



AVIC ZEMIC



- **LOAD CELLS**
- **ACCESSORIES**
- **DIGITAL LOAD CELLS**
- **JUNCTION BOX**
- **TRANSMITTER**

AVIATION INDUSTRY COOPERATION OF CHINA
ZHONGHANG ELECTRONIC MEASURING INSTRUMENTS CO., LTD.

INTRODUCTION

ZEMIC, Zhonghang Electronic Measuring Instruments Co., Ltd. (Stock Name: ZEMIC; Stock Code: 300114), is holding by Aviation Industry Corporation of China (AVIC). By acquiring the core technology based on sensing of force and weight and focusing on the "Smart measurement and control" field, ZEMIC is a national key enterprise that specialized in 6 business segments: Aviation and military industry, Measurement and control, Intelligent transportation, Intelligent Equipment, New type of measurement and control devices, Measurement and control systems for the Internet of Things (IoT). By the end of 2018, ZEMIC total assets reached more than 2 billion yuan.

ZEMIC succeeded in achieving its' IPO and was listed on Shenzhen Stock Exchange on Aug-27th, 2010. After more than 50 years development, ZEMIC now has four wholly-owned/holding subsidiaries, two overseas subsidiaries, two branch companies and three business units. As a collectivized enterprise, ZEMIC is holding a core technology for measuring, analyzing and controlling of integrated developments based on multiple parameters such as force, electricity, light, temperature, displacement, satellite positioning, image recognition and so on, thus offering its first class services supporting global customers.

ZEMIC carries the AVIC belief of Contribute to Nation in Aviation Industry, Strengthen Military Forces and Enrich the People, and follow the company strategy Provide excellent measuring products for national defense and civil applications. Focus on quality, management, capitalized operation and internationalization to make stakeholders satisfied. Connotative growth combined with merger and extended expansion, ZEMIC dedicates on fulfilling the ideology of Measuring Excellence Worldwide, and becoming a top supplier in testing, measuring and controlling solution.



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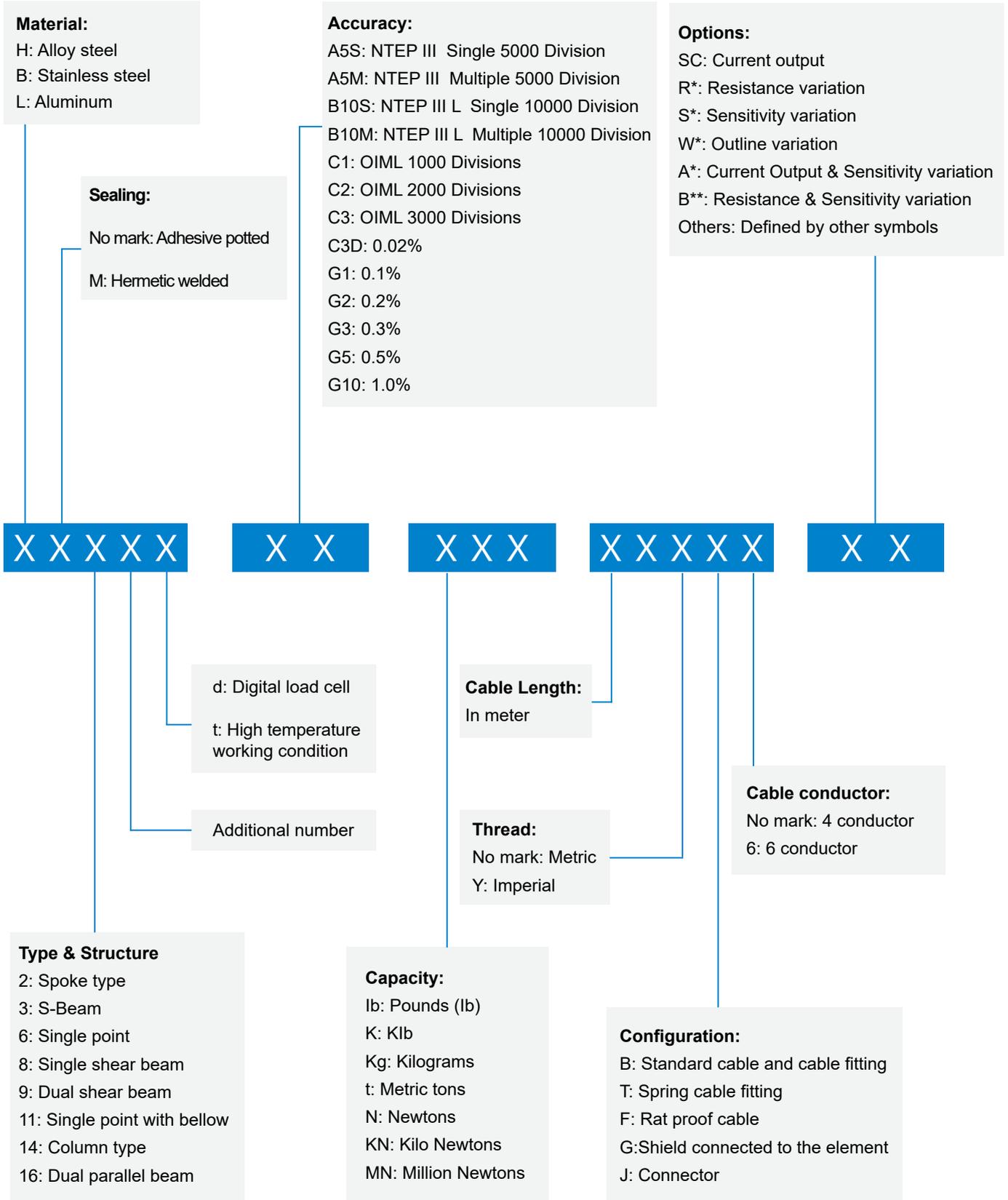
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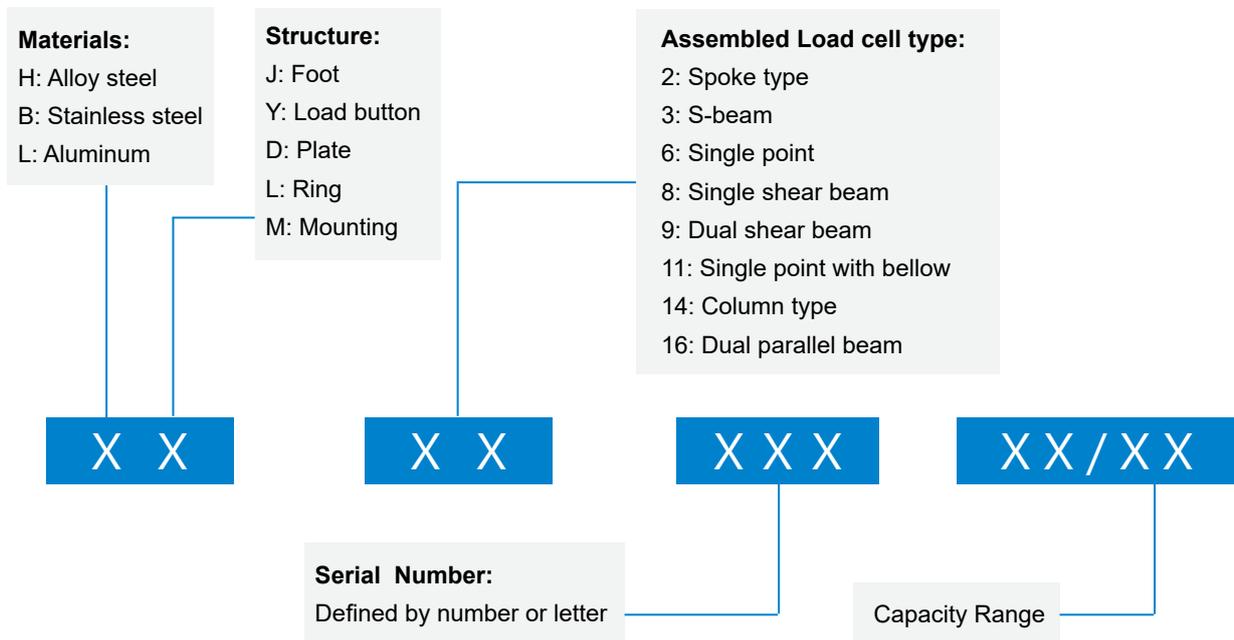
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Naming System of Load Cell/ Force Transducers



Naming System of Weighing Assembly



Load Cell Ingress protection (according to EN 60529)

Reference to National Standard of the Cover Protection Class System (P. R. C)

Equal to IEC529 Standard (International Electrotechnical Commission)

IP - 6 -

Class	Protection Level		Experimental Method	ZEMIC Achieved Ingress protection (according to EN 60529)
	Description	Meanings		
5	Water-sprinkle proof	Not be affected by the water-sprinkle from any directions in a short time	<p>Continually spray water from any directions more than 15 minutes</p>	Adhesive sealed common load cells could achieve
6	Water-sprayed protection	Not be affected by the strong water-spray from any directions in a short time	<p>Continually spray water from any directions more than 15 minutes</p>	Cover sealed inner adhesive protected load cells could achieve
7	Soggy Proof	Not be affected by inundating into water in a stated pressure and time	<p>Inundate into 1 meter deep water for 30 minutes</p>	Cover(or bellow)welded, inner adhesive protected load cells could achieve. Besides of oil-proof, water proof, it also can proof the common corrosive gas and medium.
8	Diving Proof	Can dived into water for a long time	Decided individually	Special required load cells could be customized

Dust-proof (dust could not be introduced to the inner part)

International protection



FEATURES

- Alloy steel IP67 compression load cell
- High accuracy
- Suitable for special measuring equipment



AVAILABLE MODELS

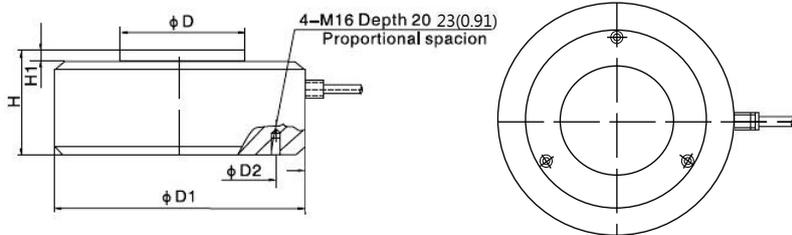
xxMN	G2/G3/G5	H2A-Gx-xxMN-5T
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SPECIFICATION

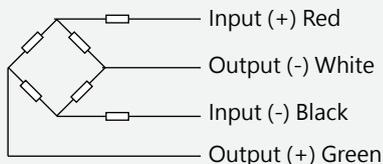
Maximum capacity (E _{max})	MN	1/2/3/4/5			
Accuracy class		G2	G3	G5	G10
Combined error	%FS	±0.2	±0.3	±0.5	±1.0
Output sensitivity (=FS)	mV/V	≥ 2.0			
Input resistance	Ω	1072±5			
Output resistance	Ω	1050±5			
Insulation resistance	MΩ	≥ 5000 (50VDC)			
Zero balance	%FS	±1.0			
Compensated temperature	°C	-10~+40			
Operating temperature	°C	-35~+65			
Excitation, recommended voltage	V	5~12 (DC)			
Excitation maximum	V	18 (DC)			
Safe overload	%FS	150			
Ultimate overload	%FS	300			
Element material		Alloy steel (surface bluing treatment, spray painted)			
Ingress protection (according to EN 60529)		IP67			
Recommended torque on fixation	N.m	M16: 200			

DIMENSIONS IN MM



Dimension	Capacity				
	1	2	3	4	5
D	59 (2.32)	78 (3.07)	91 (3.58)	110 (4.33)	133 (5.24)
D1	260 (10.24)	290 (11.42)	330 (12.99)	400 (15.75)	400 (15.75)
D2	200 (7.87)	225 (8.86)	251 (9.88)	296 (11.65)	307 (12.09)
H	80 (3.15)	104 (4.09)	123 (4.84)	132 (5.20)	132 (5.20)
H1	10 (0.39)	10 (0.39)	10 (0.39)	10 (0.39)	10 (0.39)

WIRING



- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm
- Standard cable length: 5m
- Shield is not connected to element

H2D

FEATURES

- Alloy steel IP67 compression load cell
- Nickel plated
- Suitable for hopper and platform scales and other electronic devices
- Low profile



AVAILABLE MODELS

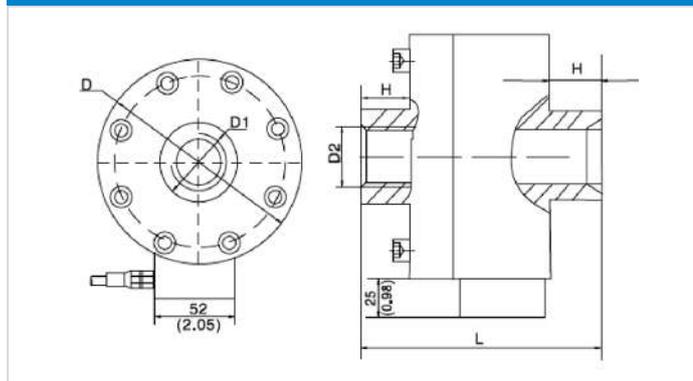
5.0t~20t	C2	H2D-C2-xxt-xxJ
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SPECIFICATION

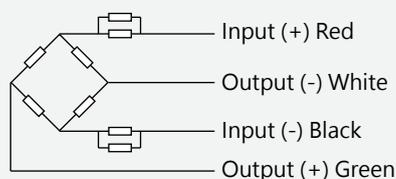
Maximum capacity (E_{max})	t	5/10/15/20
Accuracy class		C2
Maximum number of load cell intervals (nLC)		2000
Ratio of minimum LC verification interval $Y=E_{max} / V_{min}$		5000
Combined error	%FS	± 0.03
Output sensitivity (=FS)	mV/V	2.0 ± 0.008
Input resistance	Ω	750 ± 10
Output resistance	Ω	700 ± 7
Insulation resistance	M Ω	≥ 5000 (50VDC)
Zero balance	%FS	± 1.0
Compensated temperature	$^{\circ}\text{C}$	-10 ~ +40
Operating temperature	$^{\circ}\text{C}$	-35 ~ +70
Excitation, recommended voltage	V	5 ~ 12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	150
Ultimate overload	%FS	300
Element material		Nickel plated alloy steel
Ingress protection (according to EN 60529)		IP67

DIMENSIONS IN MM



Dimension(mm)	L	D	D1	M	H
Capacity(t)					
5	83 (3.27)	128 (5.04)	45 (1.77)	M24×2	7 (0.28)
10	150 (5.91)	160 (6.3)	60 (2.36)	M39×2	30 (1.18)
20	220 (8.66)	200 (7.87)	80 (3.15)	M60×2	60 (2.36)

WIRING



- Shielded, 4 conductor cable: $\Phi 5\text{mm}$
- Standard cable length: 5m (5t,10t,15t); 10m (20t)
- Cable type and cable length for customer's own application are available on request.
- Shield is not connected to element.

FEATURES

- Nickel plated alloy steel IP68 spoke type load cell
- Tension and compression applications
- Suitable for truck scales, hopper scales, automobile testing facilities and other electronic weighing or force measuring field



AVAILABLE MODELS

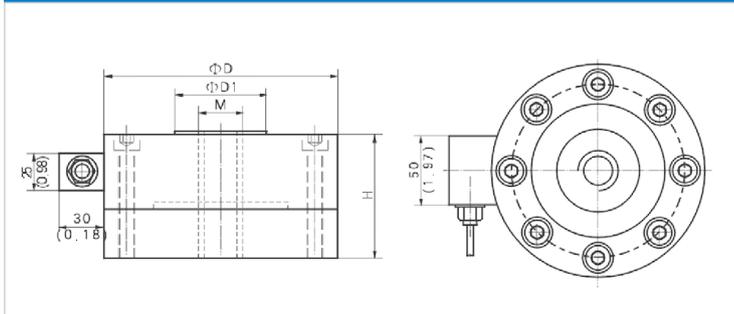
0.5t~10t	C3	HM2D4-C3-xtt-5B6
20t	G1	HM2D4-G1-20t-5B6
50t	G3	HM2D4-G3-50t-5B6



SPECIFICATION

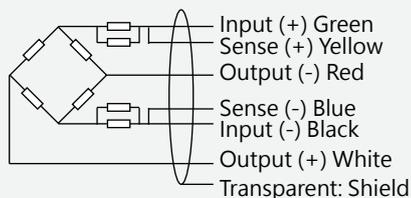
Maximum capacity (E _{max})	t	0.5/1/2/3/5/10	20	50
Accuracy class		C3	G1	G3
Maximum number of load cell intervals (nLC)			3000	
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$			7500	
Combined error	%FS	0.02	0.1	0.3
Creep	%FS/30min	±0.016	±0.05	±0.1
Temperature effect on sensitivity	%FS/10°C	±0.011	±0.1	±0.2
Temperature effect on zero	%FS/10°C	±0.019	±0.1	±0.2
Output sensitivity (= FS)	mV/V	2.0±0.002		
Input resistance	Ω	350±3.5		
Output resistance	Ω	351±2		
Insulation resistance	MΩ	≥ 5000 (50VDC)		
Zero balance	%FS	± 1.0		
Compensated temperature	°C	-10~+40		
Operating temperature	°C	-35~+70		
Excitation, recommended voltage	V	5~12 (DC)		
Excitation maximum	V	18 (DC)		
Safe overload	%FS	150		
Ultimate overload	%FS	300		

DIMENSIONS IN MM



Dimension	D	D1	H	M
Capacity				
0.5t~2t	105 (4.13)	28 (1.10)	70 (2.76)	M14×2
3t, 5t	120 (4.72)	33 (1.3)	80 (3.15)	M20×1.5
10t, 20t	155 (6.10)	60.5 (2.38)	90 (3.54)	M32×2
50t	200 (7.87)	75 (2.95)	120 (4.72)	M45×3

WIRING



- Shielded, 6 conductor cable: Φ5.6mm
- Standard cable length: 5m

H2F

FEATURES

- Nickel plated alloy steel IP67 compression load cell
- High accuracy
- Suitable for hanging, hopper and other electronic weighing devices

AVAILABLE MODELS

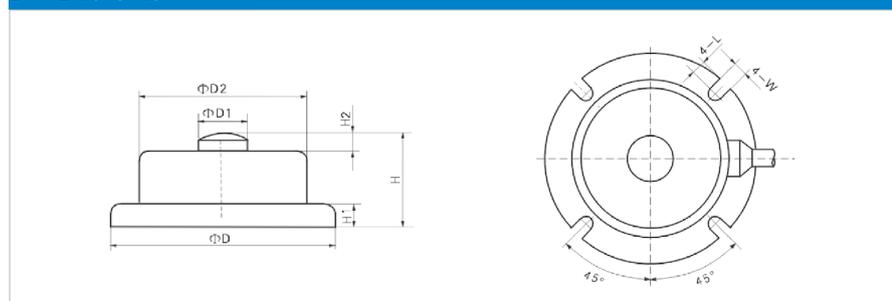
0.5t-3.0t	C3	H2F-C3-xx-3T6
5.0t,10t	C2	H2F-C2-xx-4T6
15t,20t,30t,50t	C1	H2F-C1-xx-5T6



SPECIFICATION

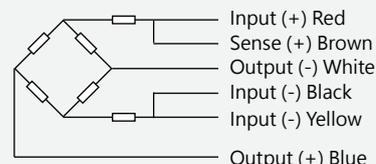
	t	15/20/30/50	5/10	0.5/1/2/3
Maximum capacity (E _{max})				
Accuracy class		C1	C2	C3
Maximum number of load cell intervals (nLC)		1000	2000	3000
Ratio of minimum LC verification interval Y=E _{max} / v _{min}		3000	5000	7500
Combined error	%FS	±0.050	±0.030	±0.020
Output sensitivity (=FS)	mV/V	2.0±0.01		
Minimum dead load	%FS	0		
Input resistance	Ω	770±30		
Output resistance	Ω	700±5		
Insulation resistance	MΩ	≥ 5000 (50VDC)		
Zero balance	%FS	±1.5		
Compensated temperature	°C	-10~+40		
Operating temperature	°C	-35~+70		
Excitation, recommended voltage	V	5~12 (DC)		
Excitation maximum	V	18 (DC)		
Safe overload	%FS	150		
Ultimate overload	%FS	300		
Storage temperature	°C	-40 ~ +70		
Element material		Alloy steel		
Ingress protection (according to EN 60529)		IP67		
Recommended torque on fixation	N.m	M8:25	M10:50	M12:75

DIMENSIONS IN MM



Capacity(t)	Dimension(mm)							
	D	D1	D2	H	H1	H2	L	W
0.5,1	115 (4.53)	22 (0.87)	86 (3.39)	43 (1.69)	12 (0.47)	5 (0.2)	8 (0.31)	8.4 (0.33)
2	120 (4.72)	26 (1.02)	90 (3.54)	45 (1.77)	12 (0.47)	5 (0.2)	8 (0.31)	8.4 (0.33)
3	128 (5.04)	20 (0.79)	100 (3.94)	46 (1.81)	8 (0.31)	5 (0.2)	7 (0.28)	10.4 (0.41)
5	128 (5.04)	20 (0.79)	100 (3.94)	46 (1.81)	8 (0.31)	5 (0.2)	7 (0.28)	10.4 (0.41)
10	160 (6.3)	40 (1.57)	120 (4.72)	63 (2.48)	15 (0.59)	10 (0.39)	10 (0.39)	10.4 (0.41)
15	194 (7.64)	42 (1.65)	154 (6.06)	68 (2.68)	20 (0.79)	10 (0.39)	12 (0.47)	12.4 (0.49)
20	220 (8.66)	44 (1.73)	170 (6.69)	73 (2.87)	22 (0.87)	10 (0.39)	12 (0.47)	12.4 (0.49)
30	230 (9.06)	48 (1.89)	188 (7.4)	78 (3.07)	25 (0.98)	10 (0.39)	12 (0.47)	12.4 (0.49)
50	264 (10.39)	52 (2.05)	214 (8.43)	90 (3.54)	30 (1.18)	10 (0.39)	12 (0.47)	12.4 (0.49)

WIRING



- Shielded, 6 conductor cable.
- Cable diameter: Φ5mm.
- Standard cable length for 0.5t - 3t: 3m, for 5t - 10t: 4m and for 15t - 50t: 5m.
- Shield is not connected to element.

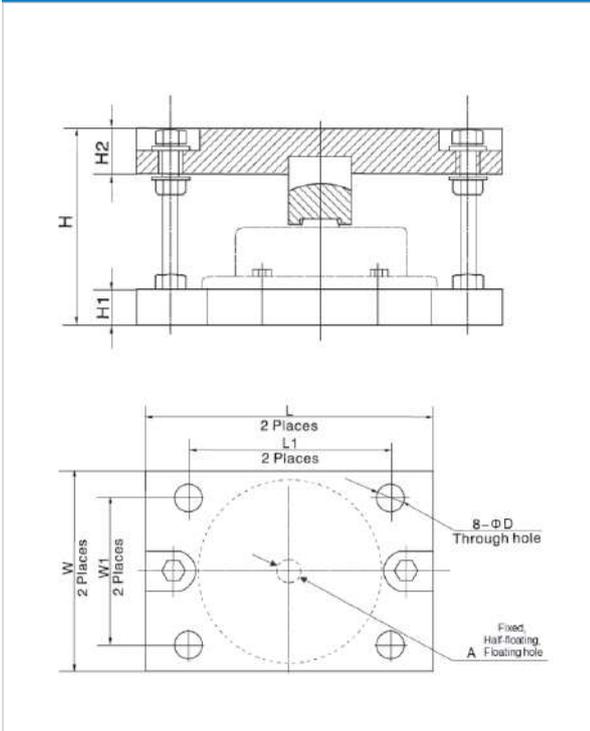
HM-2-401

SHORT DESCRIPTION

- Anti-reversal ability
- Easy installation
- Nickel plated alloy steel
- Self-aligning ability
- Can be used with Load Cell models: H2F
- Available in fixed, half-floating and floating version



DIMENSIONS IN MM

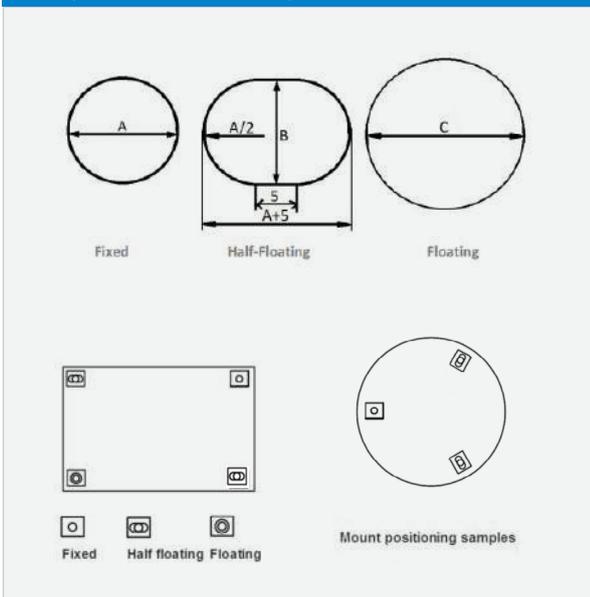


AVAILABLE MODELS

Model	Capacity	Part number
HM-2-401	1t	HM-2-401-1t (Fixed)
	2t	HM-2-401-2t (Fixed)
	3t	HM-2-401-3t (Fixed)
	5t	HM-2-401-5t (Fixed)
	10t	HM-2-401-10t (Fixed)
	15t	HM-2-401-15t (Fixed)
	20t	HM-2-401-20t (Fixed)
	30t	HM-2-401-30t (Fixed)
	50t	HM-2-401-50t (Fixed)

Capacity	Dimension							
	H	H1	H2	L	L1	W	W1	D
1t-5t	112 (4.41)	20 (0.79)	27 (1.06)	228 (8.98)	168 (6.61)	170 (6.69)	110 (4.33)	17.5 (0.69)
10t	143 (5.63)	25 (0.98)	31 (1.22)	260 (10.24)	200 (7.87)	200 (7.87)	140 (5.51)	20 (0.79)
15t	163 (6.42)	30 (1.18)	37 (1.46)	294 (11.57)	234 (9.21)	234 (9.21)	174 (6.85)	20 (0.79)
20t	173 (6.81)	30 (1.18)	37 (1.46)	320 (12.6)	260 (10.24)	260 (10.24)	200 (7.87)	20 (0.79)
30t	200 (7.87)	35 (1.38)	47 (1.85)	330 (12.99)	270 (10.63)	270 (10.63)	210 (8.27)	23 (0.91)
50t	225 (8.86)	40 (1.57)	55 (2.17)	364 (14.33)	294 (11.57)	294 (11.57)	224 (8.82)	27 (1.06)

FIXED, HALF-FLOATING, FLOATING HOLE & MOUNT POSITIONING



Dimension(mm)	A	B	C
1t	35.6	35.6	40.6
2t	41.6	41.6	46.6
3t	35.6	35.6	40.6
5t	37.6	37.6	42.6
10t	57.6	57.6	62.6
15t	59.5	59.5	64.5
20t	61.5	61.5	66.5
30t	69	69	74
50t	73	73	78

- During installation you have to make sure that the top-plate can move freely.
- The space between the top-plate and lift-off protection bolt head, and nut below should be sufficient to let the top-plate move freely.
- 3mm is the recommended space.

FEATURES

- Stainless steel IP67 "S" type load cell
- Tension and compression applications
- Suitable for hanging, hopper and other weighing devices
- Also available in imperial capacities and dimensions
- OIML test certificate no. D09-06.07.
- OIML C of C no. R60/2000-CN1-06.02.
- NTEP certificate no. 06-099A1.



AVAILABLE MODELS

xxkg	C3/A5S/B10S	B3G-xx-xxkg-6B
xxt	C3/A5S/B10S	B3G-xx-xtt-6B
xxlb	A5S/B10S	B3G-xx-xx-6YB
xxklb	A5S/B10S	B3G-xx-xxK-6YB
20klb	C3	B3G-C3-20K-6YT
50kg-10t approved by OIML C3.		
50kg-7.5t (50lb-15klb) approved by NTEP A5S/B10S.		

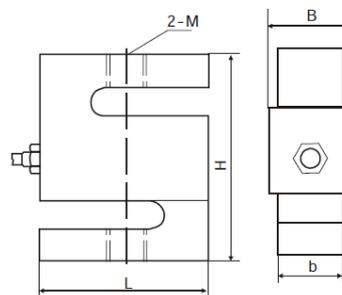


SPECIFICATION

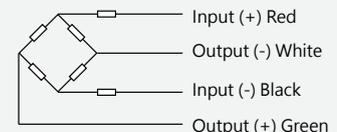
Maximum capacity (Emax)	t	0.025/0.05/0.1/0.15/0.25/0.5/1/2.5/5/7.5/10			
	lb	50/75/100/150/200/250/300/500/750/1K/1.5K/2K/2.5K/3K/5K/7.5K/10K/15K/20K			
Accuracy class		C3	C4	A5S	B10S
Approvals		OIML R60 C3		III5000 Single Pack	IIIL10000 Single Pack
Maximum number of load cell intervals (nLC)		3000	4000	5000	10000
Ratio of minimum LC verification interval Y=Emax / Vmin		10000	14000	15000	10000
Combined error	%FS	±0.020	±0.018	±0.018	±0.035
Output sensitivity (= FS)	mV/V	3.0±0.008			
Minimum dead load	kg	0			
Safe overload	%FS	150			
Ultimate overload	%FS	300			
Zero balance	%FS	± 1.0			
Excitation, recommended voltage	V	5 ~ 12 (DC)			
Excitation maximum	V	18 (DC)			
Input resistance	Ω	430 ± 60			
Output resistance	Ω	351 ± 2			
Insulation resistance	MΩ	≥ 5000 (50VDC)			
Compensated temperature	°C	-10~+40			
Operating temperature	°C	-35~+65			
Storage temperature	°C	-40~+70			
Element material		Stainless steel			
Ingress protection (according to EN 60529)		IP67			
Recommended torque on fixation	N.m	M8:25	M12:75	M20:450	M24:750 M30:1450
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD 20 T73°C	II3G Ex nL IIC T4	

Capacity	Dimension (mm)	L	H	W1	W	M	H1
50kg~100kg		50.8	60.96	11.68	15.06	M8	
50lb~300lb		(2.0)	(2.4)	(0.46)	(0.59)	1/4-28UNF	
250kg~500kg		50.8	60.96	18.03	21.4	M12	8.89
500lb~1.5klb		(2.0)	(2.4)	(0.71)	(0.84)	1/2-20UNF	(0.35)
1t		50.8	60.96	24.38	27.76	M12	
2,2.5klb		(2.0)	(2.4)	(0.96)	(1.09)	1/2-20UNF	
2.5t		76.2	99.06	24.38	27.76	M20 x 1.5	13.97
3klb		(3.0)	(3.9)	(0.96)	(1.09)	1/2-20UNF	(0.55)
5t		74.68	99.06	30.74	34.12	M20 x 1.5	18.37
10klb		(2.94)	(3.9)	(1.21)	(1.34)	3/4-16UNF	(0.72)
7.5t		87.38	139.7	37.08	40.46	M24 x 2	27.5
15klb		(3.44)	(5.5)	(1.46)	(1.59)	1-14UNS	(1.08)
10t		112.78	177.8	42.93	46.31	M30 x 2	39.9
20klb		(4.44)	(7.0)	(1.69)	(1.82)	1 1/4-12UNF	(1.57)
5klb		76.2	99.06	24.38	27.76	3/4-16UNF	13.97
		(3.0)	(3.9)	(0.96)	(1.09)		(0.55)

DIMENSIONS IN MM

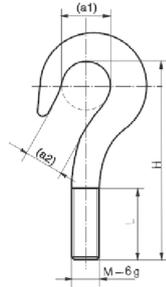


WIRING



- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm
- Standard cable length: 6m
- Shield is not connected to element

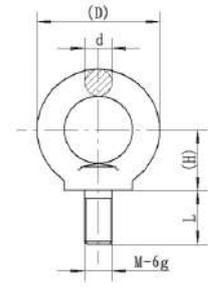
HL-3-001



Capacity	Part number
50kg,100kg	HL-3-001-25/50kg
250kg	HL-3-001-200/300kg
500kg	HL-3-001-500/750kg
1t	HL-3-001-1/1.5t
2.5t	HL-3-001-2/3t
5t	HL-3-001-5t

Capacity	a1	a2	H	M×P×L	Lifting Weight
50kg,100kg	25(0.98)	20(0.79)	97.5(3.84)	M8×1.25×24	0.25t
250kg	28(1.10)	22(0.87)	106(4.17)	M12×1.75×28	0.4t
500kg	34(1.34)	27(1.06)	135.5(5.33)	M12×1.75×28	0.8t
1t	40(1.57)	32(1.26)	152.5(6.00)	M12×1.75×28	1.6t
2.5t	48(1.89)	38(1.50)	183(7.20)	M20×1.5×35	3.2t
5t	56(2.20)	45(1.77)	221(8.70)	M20×1.5×35	6.3t

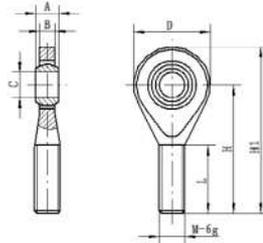
HL-3-002



Capacity	Part number
25kg-100kg	HL-3-002-25/50kg
150kg-250kg	HL-3-002-200/300kg
500kg	HL-3-002-500/750kg
1t	HL-3-002-1/1.5t
2.5t	HL-3-002-2/3t
5t	HL-3-002-5t

Capacity	H	D	d	M×P×L	Lifting Weight
25kg-100kg	18 (0.71)	36 (1.42)	9.1 (0.36)	M8×1.25×16	0.16t
150kg-250kg	26 (1.02)	52 (2.05)	13.1 (0.52)	M12×1.75×22	0.4t
500kg	31 (1.22)	62 (2.44)	15.2 (0.60)	M12×1.75×22	1.0t
1t	36 (1.42)	72 (2.83)	17.4 (0.69)	M12×1.75×22	1.6t
2.5t	53 (2.09)	104 (4.09)	25.7 (1.01)	M20×1.5×35	4.0t
5t	63 (2.48)	123 (4.84)	30 (1.18)	M20×1.5×35	6.3t

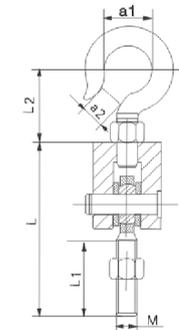
HL-3-003



Capacity	Part number
25kg-100kg	HL-3-003-25/50kg
150kg-1.0t	HL-3-003-200kg/1.0t
2.5t	HL-3-003-2/3t
5t	HL-3-003-5t

Capacity	H	A	B	C	D	H1	M×L	Lifting weight
25kg-100kg	42 (1.65)	8 (0.31)	6.5 (0.26)	8 (0.31)	25 (0.98)	56 (2.20)	M8×1.25×21	0.55t
150kg-1.0t	54 (2.13)	10 (0.39)	8.5 (0.33)	12 (0.47)	35 (1.38)	73 (2.87)	M12×1.75×28	1.08t
2.5t	78 (3.07)	16 (0.63)	13.5 (0.53)	20 (0.79)	54 (2.13)	107 (4.21)	M20×1.5×43	3.0t
5t	89 (3.5)	22 (0.87)	20 (0.79)	30 (1.18)	75 (2.95)	128 (5.04)	M20×1.5×43	6.0t

HL-3-004



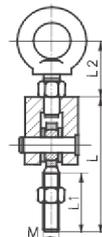
Capacity	Part number
25kg-100kg	HL-3-004-25/50kg
150kg-250kg	HL-3-004-200/300kg
500kg	HL-3-004-500/750kg
1t	HL-3-004-1t
2.5t	HL-3-004-2/3t
5t	HL-3-004-5t

Capacity	a1	a2	L	L1	L2	M×P	Lifting weight
25kg-100kg	25(0.98)	20(0.79)	77(3.03)	21(0.83)	65(2.56)	M8×1.25	0.25t
150kg-250kg	28(1.10)	22(0.87)	89(3.50)	28(1.10)	77(3.03)	M12×1.75	0.4t
500kg	34(1.34)	27(1.06)	89(3.50)	28(1.10)	103.5(4.07)	M12×1.75	0.8t
1t	40(1.57)	32(1.26)	89(3.50)	28(1.10)	117.5(4.63)	M12×1.75	1.08t
2.5t	48(1.89)	38(1.5)	133(5.24)	43(1.69)	134(5.28)	M20×1.5	3.0t
5t	56(2.20)	45(1.77)	149(5.87)	43(1.69)	173(6.81)	M20×1.5	6.0t

HL-3-005



Capacity	Part number
25kg-100kg	HL-3-005-25/50kg
150kg-250kg	HL-3-005-200/300kg
500kg	HL-3-005-500/750kg
1t	HL-3-005-1t
2.5t	HL-3-005-2/3t
5t	HL-3-005-5t



Capacity	L	L1	L2	M×P	Lifting weight
25kg-100kg	77 (3.03)	21 (0.83)	22 (0.87)	M8×1.25	0.16t
150kg-250kg	89 (3.50)	28 (1.10)	33 (1.3)	M12×1.75	0.4t
500kg	89 (3.50)	28 (1.10)	38 (1.5)	M12×1.75	1.0t
1t	89 (3.50)	28 (1.10)	43 (1.7)	M12×1.75	1.08t
2.5t	133 (5.24)	43 (1.69)	63 (2.48)	M20×1.5	3.0t
5t	149 (5.87)	43 (1.69)	78 (3.07)	M20×1.5	6.0t

Features: Matched with S type load cells, suitable for hybrid scales, crane scales, packaging scales, hopper scales, and other electronic weighing devices.

BM3



FEATURES

- Stainless steel IP68 "S" type load cell.
- Tension and compression applications.
- Suitable for hanging, hopper and other weighing devices.



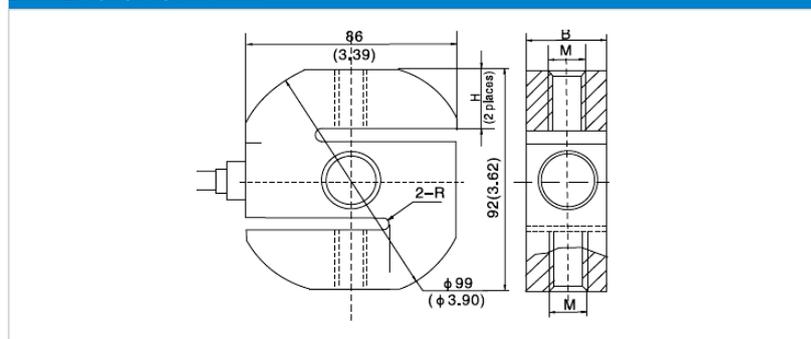
AVAILABLE MODELS

50 kg	C3	BM3-C3-50kg-6B
100 kg	C3	BM3-C3-100kg-6B
150 kg	C3	BM3-C3-150kg-6B
200 kg	C3	BM3-C3-200kg-6B
250 kg	C3	BM3-C3-250kg-6B
500 kg	C3	BM3-C3-500kg-6B
1.0 t	C3	BM3-C3-1.0t-6B
2.0 t	C3	BM3-C3-2.0t-6B
3.0 t	C3	BM3-C3-3.0t-6B
4.0 t	C3	BM3-C3-4.0t-6B
5.0 t	C3	BM3-C3-5.0t-6B
6.0 t	C3	BM3-C3-6.0t-6B
7.5 t	C3	BM3-C3-7.5t-6B

SPECIFICATION

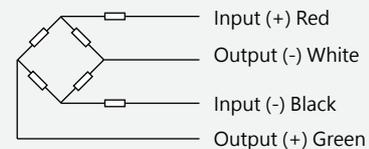
Accuracy class		OIML R60 C3		
Output sensitivity (= FS)	mV/V	2.0 ± 0.004		
Maximum capacity (E _{max})	t	0.5/1/2/2.5/3/4/5/6/7.5		
Maximum number of load cell intervals (nLC)		3000		
Ratio of minimum LC verification interval Y=E _{max} / v _{min}		7500	12000	
Combined error	%FS	± 0.02		
Minimum dead load	kg	0		
Safe overload	%FS	150		
Ultimate overload	%FS	300		
Zero balance	%FS	± 1.0		
Excitation, recommended voltage	V	5 ~ 12 (DC)		
Excitation maximum	V	18 (DC)		
Input resistance	Ω	350±3.5		
Output resistance	Ω	350±3.5		
Insulation resistance	MΩ	≥ 5000 (50VDC)		
Compensated temperature	°C	-10 ~ +40		
Operating temperature	°C	-35 ~ +65		
Storage temperature	°C	-40 ~ +70		
Element material		Stainless steel		
Ingress protection (according to EN 60529)		IP68		
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD 20 T73°C	II3G Ex nL IIC T4

DIMENSIONS IN MM



Capacity(t)	0.5t,1t	2t,2.5t,3t	4t	5t,6t,7.5t
Dimension				
W	32 (1.26)	32 (1.26)	36 (1.42)	50 (1.97)
H	25 (0.98)	25 (0.98)	25 (0.98)	26 (1.02)
M	M12 x 1.75	M20 x 1.5	M20 x 1.5	M24 x 2

WIRING



- Shielded, 4 conductor cable.
- Cable diameter: Ø5mm
- Standard cable length for 500kg: 3m and for all other capacities: 6m.
- Shield is not connected to element

AVAILABLE MODELS

Capacity	Accuracy	Full article description
25kg	C3 Excluded from OIML	H3-C3-25kg-3B
50kg	C3 Excluded from OIML	H3-C3-50kg-3B
100kg	C3/C4	H3-C3/C4-100kg-3B
150kg	C3/C4	H3-C3/C4-150kg-3B
200kg	C3/C4	H3-C3/C4-200kg-3B
250kg	C3/C4	H3-C3/C4-250kg-3B
300kg	C3/C4	H3-C3/C4-300kg-3B
500kg	C3/C4	H3-C3/C4-500kg-3B
600kg	C3/C4	H3-C3/C4-600kg-3B
750kg	C3/C4	H3-C3/C4-750kg-3B
1t	C3/C4	H3-C3/C4-1t-3B
1.5t	C3/C4	H3-C3/C4-1.5t-3B
2t	C3/C4	H3-C3/C4-2t-3B
2.5t	C3/C4	H3-C3/C4-2.5t-3B
3t	C3 Excluded from OIML	H3-C3-3t-3B
5t	C3 Excluded from OIML	H3-C3-5t-3B
7.5t	C3 Excluded from OIML	H3-C3-7.5t-3B
10t	C3 Excluded from OIML	H3-C3-10t-3B
15t	C3 Excluded from OIML	H3-C3-15t-3B
20t	C3 Excluded from OIML	H3-C3-20t-3B
30t	C3 Excluded from OIML	H3-C3-30t-3B

FEATURES

- Nickel plated alloy steel IP67 "S" type load cell
- Tension and compression applications
- Suitable for hanging, hopper and other weighing devices
- Also available in imperial capacities and dimensions



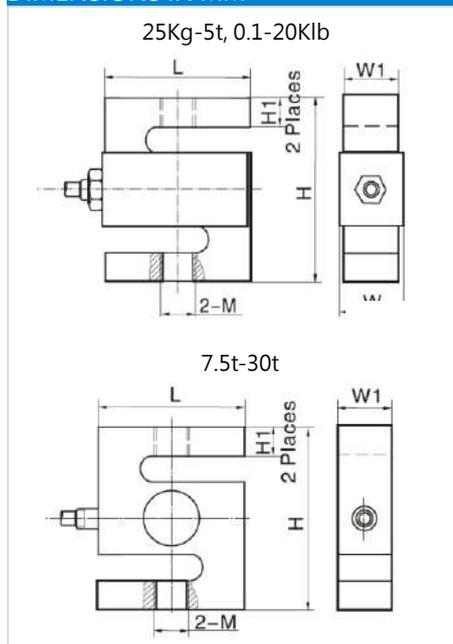
OIML test certificate no. D09-03.18 Revision 2
C of C no R60/2000-CN-00.01 Revision 1

Certificate no. 06-099A1

SPECIFICATION

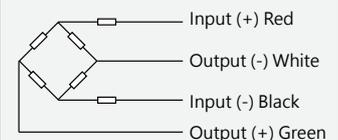
Accuracy class		OIML R60 C3	OIML R60 C4	C3
Output sensitivity (=FS)	mV/V	2.0±0.004 (Metric) 3.0±0.008 (Imperial)		
Maximum capacity (E _{max})	t	0.025/0.05/0.1/0.15/0.2/0.25/0.3/0.5/0.6/0.75/1/1.5/2/2.5/3/5/7.5/10/15/20/30		
	lb	100/150/200/250/300/500/750/1K/1.5K/2K/2.5K/3K/5K/10K/15K/20K		
Maximum number of load cell intervals (nLC)		3000	4000	3000
Ratio of minimum LC verification interval Y=E _{max} / v _{min}		10000	20000	10000
Combined error	%FS	±0.020	± 0.018	±0.020
Minimum dead load	kg		0	
Safe overload	%FS		150	
Ultimate overload	%FS		300	
Zero balance	%FS		±1.5 (Metric) ±1.0 (Imperial)	
Excitation, recommended voltage	V		5 ~ 12 (DC)	
Excitation maximum	V		18 (DC)	
Input resistance	Ω		350 ± 3.5	
Output resistance	Ω		351 ± 2.0	
Insulation resistance	MΩ		≥ 5000 (50VDC)	
Compensated temperature	°C		-10 ~ +40	
Operating temperature	°C		-35 ~ +65	
Storage temperature	°C		-40 ~ +70	
Element material			Nickel plated alloy steel	
Ingress protection (according to EN 60529)			IP67	
Recommended torque on fixation	N.m	M8:25 M10: 50	M12:75 M20:450	M33:750 M42:1450
ATEX classification (optional)		IIIG Ex ia IIC T4	IIID Ex iaD 20 T73°C	IIIG Ex nL IIC T4

DIMENSIONS IN MM



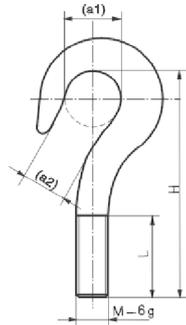
Dimension	H	L	W1	M	H1
Capacity					
25kg ~ 50kg	76.2 (3.0)	50.8 (2.0)	12.7 (0.5)	M8	15.7 (0.62)
0.1t, 0.15t	76.2 (3.0)	50.8 (2.0)	19 (0.75)	M10×1.5	15.3 (0.60)
0.2t ~ 0.75t	76.2 (3.0)	50.8 (2.0)	19 (0.75)	M12×1.75	15.1 (0.59) ~ 12.5 (0.48)
1, 1.5t	76.2 (3.0)	50.8 (2.0)	25.4 (1.0)	M12×1.75	12.6 (0.50), 11.7 (0.46)
2t ~ 5t	101.6 (4.0)	76.2 (3.0)	25.4 (1.0)	M20×1.5	20 (0.79)
7.5t, 10t	175 (8.89)	125 (4.92)	50 (1.97)	M33×3	41 (1.61), 39.5 (1.56)
15t, 20t	200 (7.87)	160 (6.3)	60 (2.36)	M42×3	51 (2.01)
30t	230 (9.06)	190 (7.48)	80 (3.15)	M42×3	57.5 (2.26)

WIRING



- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm
- Standard cable length for 25kg - 1.5t: 3m and for 2t - 30t: 6m.
- Shield is not connected to element.

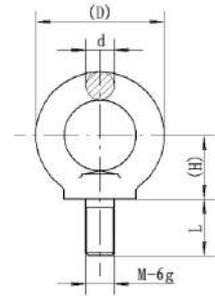
HL-3-001



Capacity	Part number
25kg-50kg	HL-3-001-25/50kg
100kg-150kg	HL-3-001-100/150kg
200kg-300kg	HL-3-001-200/300kg
500kg-750kg	HL-3-001-500/750kg
1t-1.5t	HL-3-001-1/1.5t
2t-3t	HL-3-001-2/3t
5t	HL-3-001-5t

Capacity	a1	a2	H	M×P×L	Lifting weight
25kg-50kg	25 (0.98)	20 (0.79)	97.5 (3.84)	M8×1.25×24	0.25t
100kg-150kg	25 (0.98)	20 (0.79)	97.5 (3.84)	M10×1.5×26	0.25t
200kg-300kg	28 (0.98)	22 (0.87)	106 (4.17)	M12×1.75×28	0.4t
500kg-750kg	34 (1.34)	27 (1.06)	135.5 (5.33)	M12×1.75×28	0.8t
1t-1.5t	40 (1.57)	32 (1.26)	152.5 (6.00)	M12×1.75×28	1.6t
2t-3t	48 (1.89)	38 (1.50)	183 (7.20)	M20×1.5×35	3.2t
5t	56 (2.20)	45 (1.77)	221 (8.70)	M20×1.5×35	6.3t

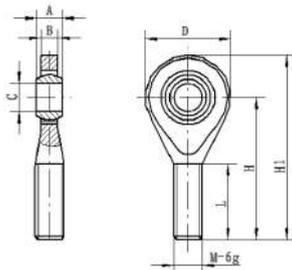
HL-3-002



Capacity	Part number
25kg-50kg	HL-3-002-25/50kg
100kg-150kg	HL-3-002-100/150kg
200kg-300kg	HL-3-002-200/300kg
500kg-750kg	HL-3-002-500/750kg
1t-1.5t	HL-3-002-1/1.5t
2t-3t	HL-3-002-2/3t
5t	HL-3-002-5t

Capacity	H	D	d	M×P×L	Lifting weight
25kg-50kg	18 (0.71)	36 (1.42)	9.1 (0.36)	M8×1.25×16	0.16t
100kg-150kg	22 (0.87)	44 (1.73)	11.1 (0.44)	M10×1.5×20	0.25t
200kg-300kg	26 (1.02)	52 (2.05)	13.1 (0.52)	M12×1.75×22	0.4t
500kg-750kg	31 (1.22)	62 (2.44)	15.2 (0.60)	M12×1.75×22	1.0t
1t-1.5t	36 (1.42)	72 (2.83)	17.4 (0.69)	M12×1.75×22	1.6t
2t-3t	53 (2.09)	104 (4.09)	25.7 (1.01)	M20×1.5×35	4.0t
5t	63 (2.48)	123 (4.84)	30 (1.18)	M20×1.5×35	6.3t

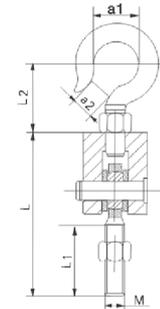
HL-3-003



Capacity	Part number
25kg-50kg	HL-3-003-25/50kg
100kg-150kg	HL-3-003-100/150kg
200kg-1t	HL-3-003-200kg/1.0t
1.5t	HL-3-003-1.5t
2t-3t	HL-3-003-2/3t
5t	HL-3-003-5t

Capacity	H	A	B	C	D	H1	M×P×L	Lifting weight
25kg-50kg	42 (1.65)	8 (0.31)	6.5 (0.26)	8 (0.31)	25 (0.98)	56 (2.20)	M8×1.25×21	0.55t
100kg-150kg	48 (1.89)	9 (0.35)	7.5 (0.30)	10 (0.39)	30 (1.18)	65 (2.56)	M10×1.5×26	0.81t
200kg-1t	54 (2.13)	10 (0.39)	8.5 (0.33)	12 (0.47)	35 (1.38)	73 (2.87)	M12×1.75×28	1.08t
1.5t	63 (2.48)	16 (0.63)	13.5 (0.53)	20 (0.79)	54 (2.13)	92 (3.62)	M12×1.75×28	3.0t
2t-3t	78 (3.07)	16 (0.63)	13.5 (0.53)	20 (0.79)	54 (2.13)	107 (4.21)	M20×1.5×43	3.0t
5t	89 (3.5)	22 (0.87)	20 (0.79)	30 (1.18)	75 (2.95)	128 (5.04)	M20×1.5×43	6.0t

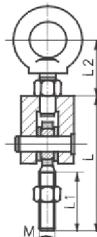
HL-3-004



Capacity	Part number
25kg-50kg	HL-3-004-25/50kg
100kg-150kg	HL-3-004-100/150kg
200kg-300kg	HL-3-004-200/300kg
500kg-750kg	HL-3-004-500/750kg
1t	HL-3-004-1t
1.5t	HL-3-004-1.5t
2t-3t	HL-3-004-2/3t
5t	HL-3-004-5t

Capacity	a1	a2	L	L1	L2	M×P	Lifting weight
25kg-50kg	25 (0.98)	20 (0.79)	77 (3.03)	21 (0.83)	65 (2.56)	M8×1.25	0.25t
100kg-150kg	25 (0.98)	20 (0.79)	83 (3.27)	26 (1.02)	64 (2.52)	M10×1.5	0.25t
200kg-300kg	28 (1.10)	22 (0.87)	89 (3.50)	28 (1.10)	77 (3.03)	M12×1.75	0.4t
500kg-750kg	34 (1.34)	27 (1.06)	89 (3.50)	28 (1.10)	103.5 (4.07)	M12×1.75	0.8t
1t	40 (1.57)	32 (1.26)	89 (3.50)	28 (1.10)	117.5 (4.63)	M12×1.75	1.08t
1.5t	40 (1.57)	32 (1.26)	118 (4.65)	28 (1.10)	110.5 (4.35)	M12×1.75	1.6t
2t-3t	48 (1.89)	38 (1.5)	133 (5.24)	43 (1.69)	134 (5.28)	M20×1.5	3.0t
5t	56 (2.20)	45 (1.77)	149 (5.87)	43 (1.69)	173 (6.81)	M20×1.5	6.0t

HL-3-005



Capacity	Part number
25kg-50kg	HL-3-005-25/50kg
100kg-150kg	HL-3-005-100/150kg
200kg-300kg	HL-3-005-200/300kg
500kg-750kg	HL-3-005-500/750kg
1t	HL-3-005-1t
1.5t	HL-3-005-1.5t
2t-3t	HL-3-005-2/3t
5t	HL-3-005-5t

Capacity	L	L1	L2	M×P	Lifting weight
25kg-50kg	77 (3.03)	21 (0.83)	22 (0.87)	M8×1.25	0.16t
100kg-150kg	83 (3.27)	26 (1.02)	27 (1.06)	M10×1.5	0.25t
200kg-300kg	89 (3.50)	28 (1.10)	33 (1.30)	M12×1.75	0.4t
500kg-750kg	89 (3.50)	28 (1.10)	38 (1.50)	M12×1.75	1.0t
1t	89 (3.50)	28 (1.10)	43 (1.69)	M12×1.75	1.08t
1.5t	118 (4.65)	28 (1.10)	42 (1.65)	M12×1.75	1.6t
2t-3t	133 (5.24)	43 (1.69)	63 (2.48)	M20×1.5	3.0t
5t	149 (5.87)	43 (1.69)	78 (3.07)	M20×1.5	6.0t

Features : Matched with S type load cells, suitable for hybrid scales, crane scales, packaging scales, hopper scales, and other electronic weighing devices.

FEATURES

- Nickel plated alloy steel IP67 "S" type load cell;
- Tension and compression applications;
- Suitable for hanging, hopper and other weighing devices;
- Also available in imperial capacities and dimensions.

AVAILABLE MODELS

xxkg	C3/C4/A5S/B10S	H3F-xx-xxkg-6T
xxt	C3/C4/A5S/B10S	H3F-xx-xtt-6T
xxlb	A5S/B10S	H3F-xx-xx-6YT
xxklb	A5S/B10S	H3F-xx-xxK-6YT
20klb	C3	H3F-C3-20K-6YT
NTEP A5S/B10S Certificate 50kg-5t (200lb-15klb)		

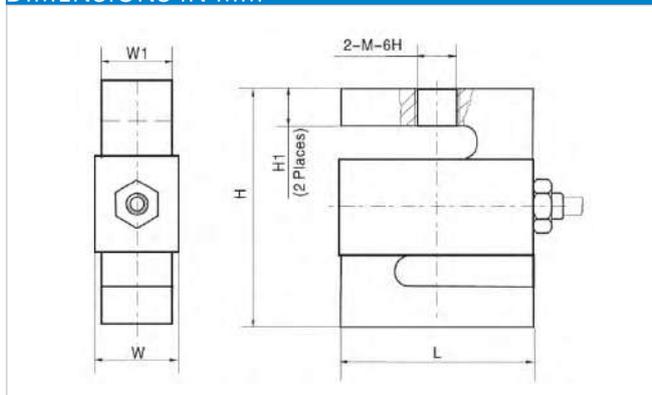


Non OIML approved Certificate no. 06-099A1

SPECIFICATION

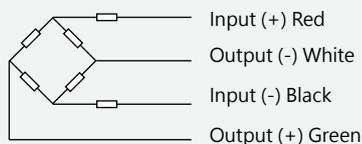
Accuracy class		C3	A5S	B10S
Output sensitivity (= FS)	mV/V	3.0 ± 0.008		
Maximum capacity (E _{max})	t	0.05/0.1/0.25/0.5/0.75/1/1.5/2/2.5/5		
	lb	200/250/300/500/750/1/1.5/2/2.5/3/5/7.5/10/15/20		
Maximum number of load cell intervals (nLC)		3000	III5000 Single Pack	IIII10000 Single Pack
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	15000	10000
Combined error	%FS	±0.020		
Minimum dead load	%FS	0		
Safe overload	%FS	150		
Ultimate overload	%FS	300		
Zero balance	%FS	± 1.0		
Excitation, recommended voltage	V	5 ~ 12 (DC)		
Excitation maximum	V	18 (DC)		
Input resistance	Ω	350 ± 3.5		
Output resistance	Ω	351 ± 2.0		
Insulation resistance	MΩ	≥ 5000 (50VDC)		
Compensated temperature	°C	-10 ~ +40		
Operating temperature	°C	-35 ~ +65		
Storage temperature	°C	-40 ~ +70		
Element material		Alloy steel		
Ingress protection (according to EN 60529)		IP67		
Recommended torque on fixation	N.m	M10: 50	M12:75	M18: 300
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD 20 T73°C	II3G Ex nL IIC T4

DIMENSIONS IN MM



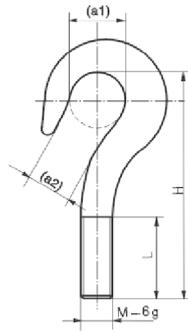
Capacity	Dimension(mm)					
	H	L	W1	W	H 1	M
50kg,100kg	76.2 (3.0)	50.8 (2.0)	19	22.4	9 (0.35)	M10×1.5
250kg~750kg			(0.75)	(0.88)		M12×1.75
1.0t,1.5t	108 (4.25)	76.2 (3.0)	25.4	28.8	9 (0.35)	M18×1.5
2.0t~5.0t			(1.0)	(1.13)		M20×1.5
250lb	76.2 (3.0)	50.8 (2.0)	12.7	16.1	9 (0.35)	M33×3
200lb~300lb			(0.5)	(0.63)		M33×3
500lb~1.5klb	108 (4.25)	76.2 (3.0)	19	22.4	9 (0.35)	M33×3
2klb~3klb			(0.75)	(0.88)		3/4-16UNF
5klb~10klb	140 (5.51)	100 (3.94)	31.8 (1.25)	35 (1.38)	16.5 (0.65)	1-14UNS
15klb	177.8 (7.0)	125.5 (4.94)	49.3 (1.94)	54 (2.13)	21.5 (0.85)	5/4-12UNF

WIRING



- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm.
- Standard cable length: 6m.
- Shield is not connected to element

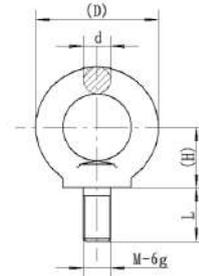
HL-3-001



Capacity	Part number
50kg-100kg	HL-3-001-100/150kg
250kg	HL-3-001-200/300kg
500kg-750kg	HL-3-001-500/750kg
1t-1.5t	HL-3-001-1/1.5t

Capacity	a1	a2	H	M×P×L	Lifting weight
50kg-100kg	25 (0.98)	20 (0.79)	97.5 (3.84)	M10×1.5×26	0.25t
250kg	28 (0.98)	22 (0.87)	106 (4.17)	M12×1.75×28	0.4t
500kg-750kg	34 (1.34)	27 (1.06)	135.5 (5.33)	M12×1.75×28	0.8t
1t-1.5t	40 (1.57)	32 (1.26)	152.5 (6.0)	M12×1.75×28	1.6t

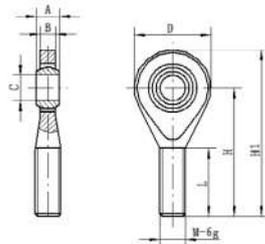
HL-3-002



Capacity	Part number
50kg-100kg	HL-3-002-100/150kg
250kg	HL-3-002-200/300kg
500kg-750kg	HL-3-002-500/750kg
1t-1.5t	HL-3-002-1/1.5t

Capacity	H	D	d	M×P×L	Lifting weight
50kg-100kg	22 (0.87)	44 (1.73)	11.1 (0.44)	M10×1.5×20	0.25t
250kg	26 (1.02)	52 (2.05)	13.1 (0.52)	M12×1.75×22	0.4t
500kg-750kg	31 (1.22)	62 (2.44)	15.2 (0.60)	M12×1.75×22	1.0t
1t-1.5t	36 (1.42)	72 (2.83)	17.4 (0.69)	M12×1.75×22	1.6t

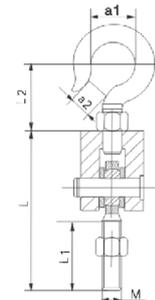
HL-3-003



Capacity	Part number
50kg-100kg	HL-3-003-100/150kg
250kg-1.0t	HL-3-003-200kg/1.0t
1.5t	HL-3-003-1.5t

Capacity	H	A	B	C	D	H1	M×P×L	Lifting weight
50kg-100kg	48 (1.89)	9 (0.35)	7.5 (0.30)	10 (0.39)	30 (1.18)	65 (2.56)	M10×1.5×26	0.81t
250kg-1.0t	54 (2.13)	10 (0.39)	8.5 (0.33)	12 (0.47)	35 (1.38)	73 (2.87)	M12×1.75×28	1.08t
1.5t	63 (2.48)	16 (0.63)	13.5 (0.53)	20 (0.79)	54 (2.13)	92 (3.62)	M12×1.75×28	3.0t

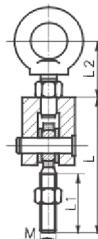
HL-3-004



Capacity	Part number
50kg-100kg	HL-3-004-100/150kg
250kg	HL-3-004-200/300kg
500kg-750kg	HL-3-004-500/750kg
1t	HL-3-004-1t
1.5t	HL-3-004-1.5t

Capacity	a1	a2	L	L1	L2	M×P	Lifting weight
50kg-100kg	25 (0.98)	20 (0.79)	83 (3.27)	26 (1.02)	64 (2.52)	M10×1.5	0.25t
250kg	28 (1.10)	22 (0.87)	89 (3.50)	28 (1.10)	77 (3.03)	M12×1.75	0.4t
500kg-750kg	34 (1.34)	27 (1.06)	89 (3.50)	28 (1.10)	103.5 (4.07)	M12×1.75	0.8t
1t	40 (1.57)	32 (1.26)	89 (3.50)	28 (1.10)	117.5 (4.63)	M12×1.75	1.08t
1.5t	40 (1.57)	32 (1.26)	118 (4.65)	28 (1.10)	110.5 (4.35)	M12×1.75	1.6t

HL-3-005



Capacity	Part number
50kg-100kg	HL-3-005-100/150kg
250kg	HL-3-005-200/300kg
500kg-750kg	HL-3-005-500/750kg
1t	HL-3-005-1t
1.5t	HL-3-005-1.5t

Capacity	L	L1	L2	M×P	Lifting weight
50kg-100kg	83 (3.27)	26 (1.02)	27 (1.06)	M10×1.5	0.25t
250kg	89 (3.50)	28 (1.10)	33 (1.3)	M12×1.75	0.4t
500kg-750kg	89 (3.50)	28 (1.10)	38 (1.5)	M12×1.75	1.0t
1t	89 (3.50)	28 (1.10)	43 (1.7)	M12×1.75	1.08t
1.5t	118 (4.65)	28 (1.10)	42 (1.65)	M12×1.75	1.6t

Features : Matched with S type load cells, suitable for hybrid scales, crane scales, packaging scales, hopper scales, and other electronic weighing devices.

FEATURES

- Nickel plated alloy steel IP67 "S" type load cell
- Tension and compression applications
- Suitable for hanging, hopper and other weighing devices
- Also available in imperial capacities and dimensions



AVAILABLE MODELS

xxkg	C3/A5S/B10S	H3G-xx-xxkg-6B
xxt	C3/A5S/B10S	H3G-xx-xxt-6B
xxlb	A5S/B10S	H3G-xx-xx-6YB
xxklb	A5S/B10S	H3G-xx-xxK-6YB
20klb	C3	H3G-C3-20K-6YT
OIML Certificate (50kg-250kg C3 Class)		
NTEP A5S/B10S Certificate 50kg-7.5t(50lb-15klb)		



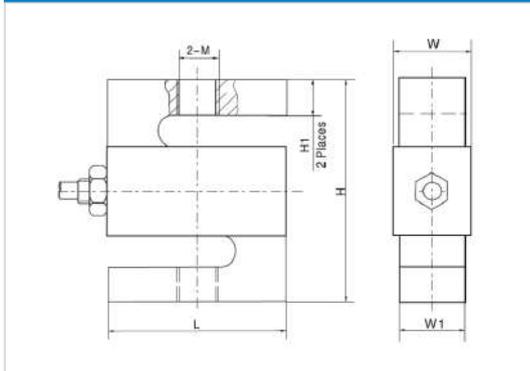
Certificate no. 06-099A1

OIML test certificate no. TC7866 Revision 0 C of C no R60/2000-NL1-10.30

SPECIFICATION

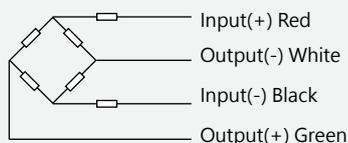
Maximum capacity (E _{max})	t	0.05/0.1/0.2/0.25/0.3/0.5/1/2.5/5/7.5		
	lb	250/500/750/1K/1.5K/2K/2.5K/3K/5K/7.5K/10K/15K/20K		
Accuracy class		C3	A5S	B10S
Approvals		OIML R60 C3	III5000 Single Pack	IIIL10000 Single Pack
Maximum number of load cell intervals (n _{LC})		3000	5000	10000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	15000	10000
Combined error	%FS	±0.020	±0.018	±0.035
Creep	%FS/30min	±0.016	±0.012	±0.030
Temperature effect on sensitivity	%FS/10°C	±0.011	±0.009	±0.030
Temperature effect on zero	%FS/10°C	±0.015	±0.010	±0.030
Output sensitivity (=FS)	mV/V	3.0±0.008		
Input resistance	Ω	430±60		
Output resistance	Ω	351±2.0		
Insulation resistance	MΩ	≥ 5000 (50VDC)		
Zero balance	%FS	±1.0		
Compensated temperature	°C	-10~+40		
Operating temperature	°C	-35~+70		
Excitation, recommended voltage	V	5~12 (DC)		
Excitation maximum	V	18 (DC)		
Safe overload	%FS	150		
Ultimate overload	%FS	300		
Ingress protection (according to EN 60529)		IP67		
Recommended torque on fixation	N.m	M8:25	M12:75	M20:450
ATEX classification (optional)		IIIG Ex ia IIIC T4	IIID Ex iaD20 T73°C	IIIG Ex nL II C T4

DIMENSIONS IN MM



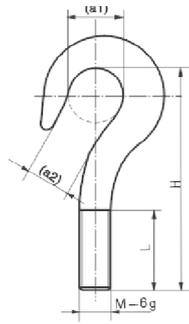
Capacity	Dimension (mm)		L	H	W1	W	M	H1
50kg,100kg	50.8 (2.0)	63.5 (2.5)	12.7 (0.5)	16.07 (0.63)	M8	10.16 (0.4)	M8	10.16 (0.4)
50klb~300lb							1/4-28UNF	
200kg~500kg	50.8 (2.0)	63.5 (2.5)	19.05 (0.75)	22.43 (0.88)	M12	10.16 (0.4)	M12	10.16 (0.4)
500lb~1.5klb							1/2-20UNF	
1t	50.8 (2.0)	63.5 (2.5)	25.4 (1.0)	28.78 (1.13)	M12	10.16 (0.4)	M12	10.16 (0.4)
2,2.5klb							1/2-20UNF	
2.5t	76.2 (3.0)	101.6 (4.0)	25.4 (1.0)	28.78 (1.13)	M20 x 1.5	15.2 (0.6)	M20 x 1.5	15.2 (0.6)
3klb							1/2-20UNF	
5t	76.2 (3.0)	101.6 (4.0)	25.4 (1.0)	28.78 (1.13)	M20 x 1.5	20 (0.79)	M20 x 1.5	20 (0.79)
5klb,10klb							3/4-16UNF	
7.5t	101.6 (4.0)	139.7 (5.5)	31.75 (1.25)	35.13 (1.38)	M24 x 2	30 (1.18)	M24 x 2	30 (1.18)
15klb							1-14UNS	
20klb	127 (5.0)	177.8 (7.0)	50.8 (2.0)	54.2 (2.13)	1 1/4-12UNF	39.9 (1.57)	1 1/4-12UNF	39.9 (1.57)

WIRING



- Shielded, 4 conductor cable
- Cable diameter: Φ5mm
- Standard cable length: 6m
- Shield is not connected to element

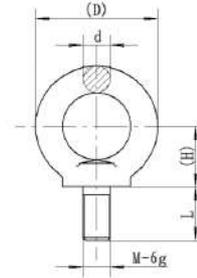
HL-3-001



Capacity	Part number
50kg-100kg	HL-3-001-25/50kg
200kg-300kg	HL-3-001-200/300kg
500kg	HL-3-001-500/750kg
1t	HL-3-001-1/1.5t
2.5t	HL-3-001-2/3t
5t	HL-3-001-5t

Capacity	a1	a2	H	M×P×L	Lifting weight
50kg-100kg	25 (0.98)	20 (0.79)	97.5 (3.84)	M8×1.25×24	0.25t
200kg-300kg	28 (0.98)	22 (0.87)	106 (4.17)	M12×1.75×28	0.4t
500kg	34 (1.34)	27 (1.06)	135.5 (5.33)	M12×1.75×28	0.8t
1t	40 (1.57)	32 (1.26)	152.5 (6.0)	M12×1.75×28	1.6t
2.5t	48 (1.89)	38 (1.5)	183 (7.2)	M20×1.5×35	3.2t
5t	56 (2.2)	45 (1.77)	221 (8.7)	M20×1.5×35	6.3t

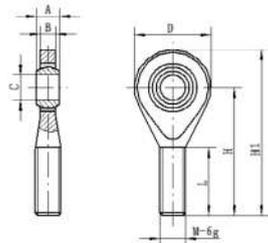
HL-3-002



Capacity	Part number
50kg-100kg	HL-3-002-25/50kg
200kg-300kg	HL-3-002-200/300kg
500kg	HL-3-002-500/750kg
1t	HL-3-002-1/1.5t
2.5t	HL-3-002-2/3t
5t	HL-3-002-5t

Capacity	H	D	d	M×P×L	Lifting weight
50kg-100kg	18 (0.71)	36 (1.42)	9.1 (0.36)	M8×1.25×16	0.16t
200kg-300kg	26 (1.02)	52 (2.05)	13.1 (0.52)	M12×1.75×22	0.4t
500kg	31 (1.22)	62 (2.44)	15.2 (0.60)	M12×1.75×22	1.0t
1t	36 (1.42)	72 (2.83)	17.4 (0.69)	M12×1.75×22	1.6t
2.5t	53 (2.09)	104 (4.09)	25.7 (1.01)	M20×1.5×35	4.0t
5t	63 (2.48)	123 (4.84)	30 (1.18)	M20×1.5×35	6.3t

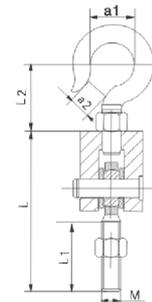
HL-3-003



Capacity	Part number
50kg-100kg	HL-3-003-25/50kg
200kg-1.0t	HL-3-003-200kg/1.0t
2.5t	HL-3-003-2/3t
5t	HL-3-003-5t

Capacity	H	A	B	C	D	H1	M×P×L	Lifting weight
50kg-100kg	42 (1.65)	8 (0.31)	6.5 (0.26)	8 (0.31)	25 (0.98)	56 (2.20)	M8×1.25×21	0.55t
200kg-1.0t	54 (2.13)	10 (0.39)	8.5 (0.33)	12 (0.47)	35 (1.38)	73 (2.87)	M12×1.75×28	1.08t
2.5t	78 (3.07)	16 (0.63)	13.5 (0.53)	20 (0.79)	54 (2.13)	107 (4.21)	M20×1.5×43	3.0t
5t	89 (3.5)	22 (0.87)	20 (0.79)	30 (1.18)	75 (2.95)	128 (5.04)	M20×1.5×43	6.0t

HL-3-004



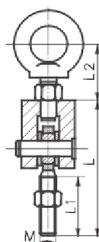
Capacity	Part number
50kg-100kg	HL-3-004-25/50kg
200kg-300kg	HL-3-004-200/300kg
500kg	HL-3-004-500kg
1t	HL-3-004-1t
2.5t	HL-3-004-2/3t
5t	HL-3-004-5t

Capacity	a1	a2	L	L1	L2	M×P	Lifting weight
50kg-100kg	25 (0.98)	20 (0.79)	77 (3.03)	21 (0.83)	65 (2.56)	M8×1.25	0.25t
200kg-300kg	28 (1.10)	22 (0.87)	89 (3.50)	28 (1.10)	77 (3.03)	M12×1.75	0.4t
500kg	34 (1.34)	27 (1.06)	89 (3.50)	28 (1.10)	103.5 (4.07)	M12×1.75	0.8t
1t	40 (1.57)	32 (1.26)	89 (3.50)	28 (1.10)	117.5 (4.63)	M12×1.75	1.08t
2.5t	48 (1.89)	38 (1.5)	133 (5.24)	43 (1.69)	134 (5.28)	M20×1.5	3.0t
5t	56 (2.20)	45 (1.77)	149 (5.87)	43 (1.69)	173 (6.81)	M20×1.5	6.0t

HL-3-005



Capacity	Part number
50kg-100kg	HL-3-005-25/50kg
200kg-300kg	HL-3-005-200/300kg
500kg	HL-3-005-500/750kg
1t	HL-3-005-1t
2.5t	HL-3-005-2/3t
5t	HL-3-005-5t



Capacity	L	L1	L2	M×P	Lifting weight
50kg-100kg	77 (3.03)	21 (0.83)	22 (0.87)	M8×1.25	0.16t
200kg-300kg	89 (3.50)	28 (1.10)	33 (1.3)	M12×1.75	0.4t
500kg	89 (3.50)	28 (1.10)	38 (1.5)	M12×1.75	1.0t
1t	89 (3.50)	28 (1.10)	43 (1.7)	M12×1.75	1.08t
2.5t	133 (5.24)	43 (1.69)	63 (2.48)	M20×1.5	3.0t
5t	149 (5.87)	43 (1.69)	78 (3.07)	M20×1.5	6.0t

Features : Matched with S type load cells,suitable for hybrid scales, crane scales, packaging scales, hopper scales, and other electronic weighing devices.

FEATURES

- Spraying plastic surface aluminum alloy IP66 "S" type load cell
- Tension and compression applications
- Suitable for textile machinery measuring and other electronic measuring systems

AVAILABLE MODELS

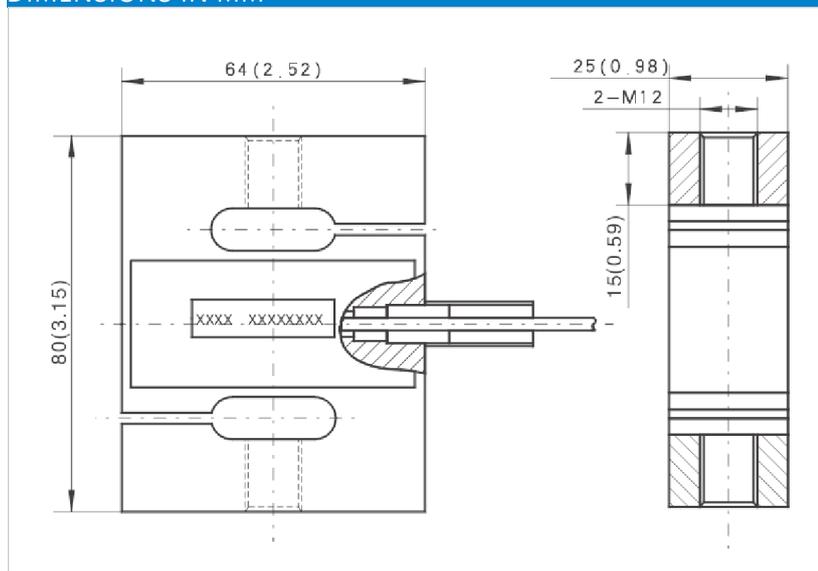
200kg-700kg C2 L3V-C2-xxkg-2.6B



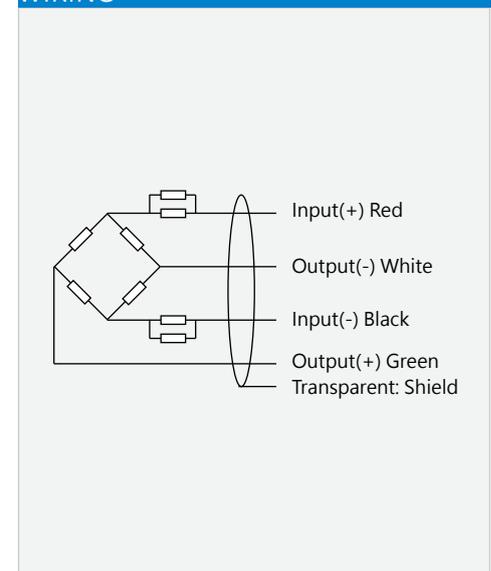
SPECIFICATION

Maximum capacity (E _{max})	kg	200/250/500/700
Output sensitivity (=FS)	mV/V	2.3±0.2
Accuracy class		C2
Combined error	%FS	±0.03
Creep	%FS/30min	±0.024
Temperature effect on sensitivity	%FS/10°C	±0.03
Temperature effect on zero	%FS/10°C	±0.5
Zero balance	%FS	±1.5
Compensated temperature	°C	-10~ +40
Operating temperature	°C	-35~ +65
Storage temperature	°C	-40 ~ +70
Input resistance	Ω	410±30
Output resistance	Ω	350±3
Insulation resistance	MΩ	≥ 5000 (50VDC)
Excitation, recommended voltage	V	5~12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	120
Ultimate overload	%FS	150
Ingress protection (according to EN 60529)		IP66
Cable SPECIFICATION	mm	φ5.0
Cable length	m	2.6
Recommended torque on fixation	N.m	100

DIMENSIONS IN MM



WIRING



HM3Q

FEATURES

- Nickel plated alloy steel IP68 "S" type load cell.
- High accuracy.

AVAILABLE MODELS

6t	C3/C4	HM3Q-C3/C4-6t-10B
12t	C3/C4	HM3Q-C3/C4-12t-10B
20t	C3/C4	HM3Q-C3/C4-20t-10B
30t	C3/C4	HM3Q-C3/C4-30t-10B



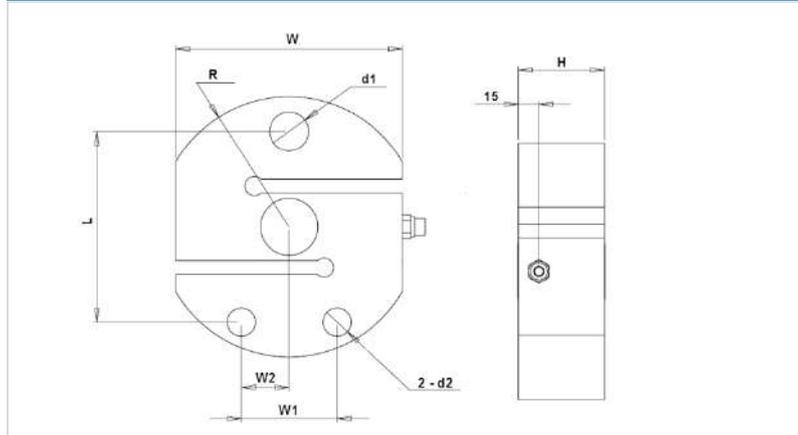
test certificate no. TC8102 Revision 0
C of C no R60/2000-NL1-12.13



SPECIFICATION

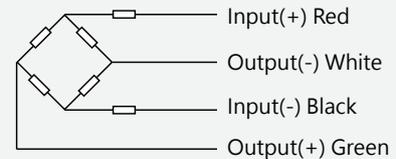
		OIML R60 C3	OIML R60 C4
Accuracy class			
Output sensitivity (=FS)	mV/V	2.0 ± 0.002	
Maximum capacity (Emax)	t	6/12/20/30	
Maximum number of load cell intervals (nLC)		3000	4000
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$		10000	15000
Combined error	%FS	± 0.0230	± 0.0175
Minimum dead load	%FS	0	
Safe overload	%FS	150	
Ultimate overload	%FS	300	
Zero balance	%FS	± 1.5	
Excitation, recommended voltage	V	5 ~ 12 (DC)	
Excitation maximum	V	18 (DC)	
Input resistance	Ω	1000 ± 10	
Output resistance	Ω	1004 ± 5	
Insulation resistance	MΩ	≥ 5000 (50VDC)	
Compensated temperature	°C	-10 ~ +40	
Operating temperature	°C	-35 ~ +65	
Storage temperature	°C	-40 ~ +70	
Element material		Nickel plated alloy steel	
Ingress protection (according to EN 60529)		IP68	

DIMENSIONS IN MM



Dimension Capacity	W	W1	W2	L	R	H	Φd1	Φd2
6t	130 (5.12)	55 (2.17)	27.5 (1.08)	110 (4.33)	75 (2.95)	50 (1.97)	22.4 (0.88)	16.2 (0.64)
12t	130 (5.12)	55 (2.17)	27.5 (1.08)	110 (4.33)	75 (2.95)	60 (2.36)	22.4 (0.88)	16.2 (0.64)
20t	150 (5.91)	70 (2.76)	35 (1.38)	125 (4.92)	89 (3.50)	65 (2.56)	38.1 (1.50)	24.5 (0.96)
30t	200 (7.87)	90 (3.54)	45 (1.77)	176 (6.93)	125 (4.92)	70 (2.95)	50.15 (1.97)	30.15 (1.19)

WIRING



- Shielded, 4 conductor cable
- Cable diameter: Φ5mm
- Standard cable length: 10m
- Shield is not connected to element

FEATURES

- Stainless/ alloy steel IP67 single point load cell
- Suitable for the pricing scales, bench scales, belt scales etc
- Maximum platform size: 400*400mm



AVAILABLE MODELS

xxkg	C3	B6E/H6E-C3-xxkg-2B
xxkg	C3	B6E/H6E-C3-xxkg-2B-S1
xxkg	C3	B6E/H6E-C3-xxkg-2G
xxkg	C3	B6E/H6E-C3-xxkg-2G-S1

G: The Insulation resistance between bridge circuit and shielded wire is zero

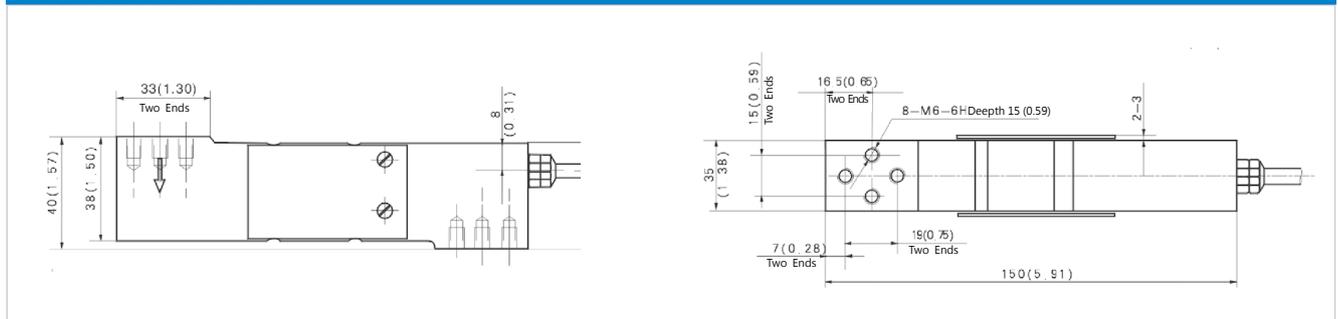


SPECIFICATION

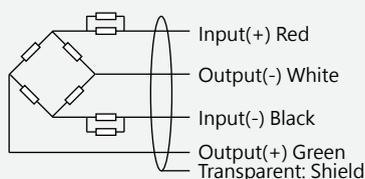
Maximum capacity (E _{max})	kg	20/30/50/75/100/150/200/250/300		
Accuracy class		C3		
Maximum number of load cell intervals (nLC)		3000		
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000		
Combined error	%FS	±0.020		
Creep	%FS/30min	±0.016		
Temperature effect on sensitivity	%FS/10°C	±0.011		
Temperature effect on zero	%FS/10°C	±0.015		
Output sensitivity (=FS)	mV/V	2.0±0.2		
Input resistance	Ω	400±20		
Output resistance	Ω	351±2.0		
Insulation resistance	MΩ	≥ 5000 (50VDC)		
Zero balance	%FS	≤ ±1.5		
Compensated temperature	°C	-10~+40		
Operating temperature	°C	-35~+65		
Excitation, recommended voltage	V	5~12 (DC)		
Excitation maximum	V	18 (DC)		
Safe overload	%FS	150		
Ultimate overload	%FS	300		
Corner correction		0.02%load value/100mm		
ATEX class (optional)		II1G Ex ia IIC T4	II1D Ex iaD20 T73°C	II3G Ex nL II C T4

Note: "S1" output sensitivity is 2.0±0.002mV/V, input resistance is 384±4

DIMENSIONS IN MM



WIRING



- Adopt shielded, 4 conductor cable: Φ5mm
- Standard cable length: 2m

B6E3/H6E3

FEATURES

- Stainless/ alloy steel IP67 single point load cell
- Suitable for the pricing scales, bench scales, belt scales etc
- Maximum platform size: 400*400mm



AVAILABLE MODELS

xxkg	C3	B6E3/H6E3-C3-xxkg-3B
xxkg	C3	B6E3/H6E3-C3-xxkg-3B-S1
xxkg	C3	B6E3/H6E3-C3-xxkg-3G
xxkg	C3	B6E3/H6E3-C3-xxkg-3G-S1

G: The Insulation resistance between bridge circuit and shielded wire is zero

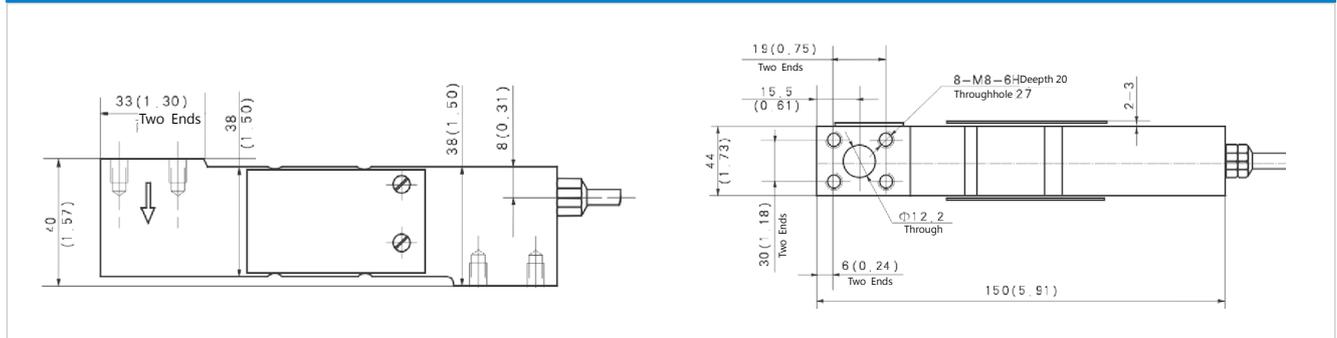


SPECIFICATION

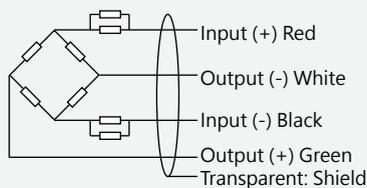
Maximum capacity (E _{max})	kg	20/30/50/75/100/150/200/250/300
Accuracy class		C3
Maximum number of load cell intervals (nLC)		3000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000
Combined error	%FS	±0.020
Creep	%FS/30min	±0.016
Temperature effect on sensitivity	%FS/10°C	±0.011
Temperature effect on zero	%FS/10°C	±0.015
Output sensitivity (= FS)	mV/V	2.0±0.2
Input resistance	Ω	400±20
Output resistance	Ω	351±3.5
Insulation resistance	MΩ	≥ 5000 (50VDC)
Zero balance	%FS	±1.5
Compensated temperature	°C	-10~+40
Operating temperature	°C	-35~+65
Excitation, recommended voltage	V	5~12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	150
Ultimate overload	%FS	300
Corner correction		0.02%load value/100mm
ATEX class (optional)		II1G Ex ia IIC T4 II1D Ex iaD20 T73°C II3G Ex nL II C T4

Note: "S1" output sensitivity is 2.0±0.002mV/V, input resistance is 384±4

DIMENSIONS IN MM



WIRING



- Adopt shielded, 4 conductor cable: Φ5mm
- Standard cable length: 3m

FEATURES

- Stainless steel IP67 single point load cell
- Bending beam
- Suitable for belt, platform and other electronic weighing devices
- Maximum platform size: for 50kg-200kg: 400 x 400 mm ; for 250kg-500kg: 600 x 800 mm; for 750kg-2t: 1200 x 1200 mm



AVAILABLE MODELS

100 kg	C3 not approved	B6F-C3-100kg-3B6
150 kg	C3 not approved	B6F-C3-150kg-3B6
200 kg	C3 not approved	B6F-C3-200kg-3B6
250 kg	C3 not approved	B6F-C3-250kg-3B6
500 kg	C3	B6F-C3-500kg-3B6
750 kg	C3	B6F-C3-750kg-3B6
1000 kg	C3	B6F-C3-1000kg-3B6
2000 kg	C3	B6F-C3-2000kg-3B6



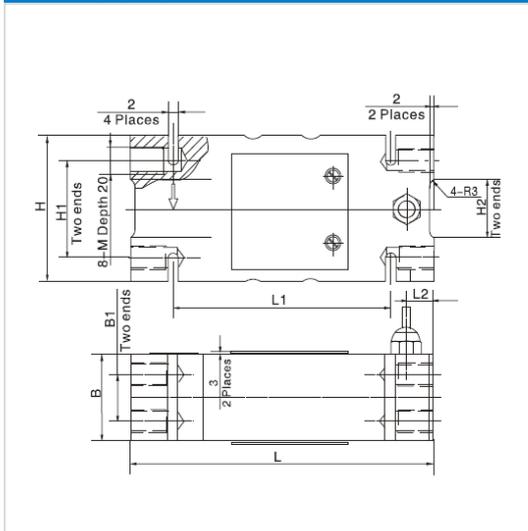
OIML test certificate no. TC7867 Revision 0 C of C no R60/2000-NL1-10.31

SPECIFICATION

Accuracy class		C3		OIML R60 C3	
Output sensitivity (=FS)	mV/V	2.0 ± 0.2			
Maximum capacity (E _{max})	kg	100/150/200/250		500/750/1000/2000	
Maximum number of load cell intervals (nLC)		3000			
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000			
Combined error	%FS	±0.023			
Safe overload	%FS	150			
Ultimate overload	%FS	300			
Zero balance	%FS	± 1.0			
Excitation, recommended voltage	V	5 ~ 12 (DC)			
Excitation maximum	V	18 (DC)			
Input resistance	Ω	400±20			
Output resistance	Ω	350 ± 3.5			
Insulation resistance	MΩ	≥ 5000 (50VDC)			
Compensated temperature	°C	-10 ~ +40			
Operating temperature	°C	-35 ~ +65			
Storage temperature	°C	-40 ~ +70			
Element material		Stainless steel			
Ingress protection (according to EN 60529)		IP67			
Recommended torque on fixation	N.m	M12:75 (Below 500kg)		M16:200 (750kg-2000kg)	
ATEX classification (optional)		II1G Ex ia IIC T4		II1D Ex iaD 20 T73°C	

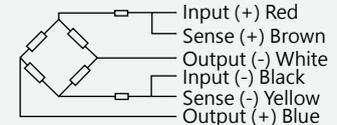
Note: "S1" output sensitivity is 2.0±0.002mV/V, input resistance is 384±4

DIMENSIONS IN MM



Dimension	50kg	250kg	750kg
Capacity	200kg	500kg	2t
B	44 (1.73)	60 (2.36)	76 (2.99)
B1	24 (0.94)	36 (1.42)	46 (1.81)
H	75 (2.95)	95 (3.74)	125 (4.92)
H1	50 (1.97)	70 (2.76)	95 (3.74)
H2	30 (1.18)	30 (1.18)	65 (2.56)
L	156 (6.14)	146 (5.75)	176 (6.93)
L1	112 (4.4)	110 (4.33)	110 (4.33)
L2	14 (0.55)	11 (0.43)	24 (0.94)
M	M12	M12	M16

WIRING



- Shielded, 6 conductor cable
- Cable diameter: Φ 6.2mm
- Standard cable length: 3m
- Shield is not connected to element

B6G/H6G

FEATURES

- Stainless steel IP66 single point load cell.
- Suitable for single or double load cell structured platform scales.
- Recommended platform size: 600 x 600 mm.

AVAILABLE MODELS

Capacity	Accuracy	Full article description
xxkg	C3	B6G-C3-xxkg-3B6
xxkg	C3	B6G-C3-xxkg-3G6

G:The Insulation resistance between bridge circuit and shielded wire is zero

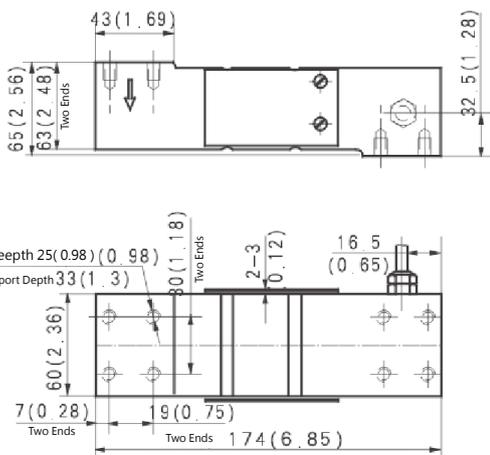


SPECIFICATION

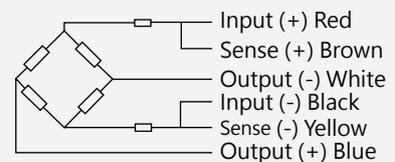
Accuracy class		C3
Output sensitivity (= FS)	mV/V	2.0 ± 0.2
Maximum capacity (E _{max})	kg	50/100/150/200/250/300/400/500/600/635
Maximum number of load cell intervals (nLC)		3000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000
Combined error	%FS	± 0.0230
Minimum dead load	%FS	0
Safe overload	%FS	150
Ultimate overload	%FS	300
Zero balance	%FS	± 1.0
Excitation, recommended voltage	V	5 ~ 12 (DC)
Excitation maximum	V	18 (DC)
Input resistance	Ω	400 ± 20
Output resistance	Ω	350 ± 3
Insulation resistance	MΩ	≥ 5000 (50VDC)
Compensated temperature	°C	-10 ~ +40
Operating temperature	°C	-35 ~ +65
Storage temperature	°C	-40 ~ +70
Element material		Stainless steel
Ingress protection (according to EN 60529)		IP66
Recommended torque on fixation	N.m	M8: 25
ATEX classification (optional)		II1G Ex ia IIC T4 II1D Ex iaD 20 T73°C II3G Ex nL IIC T4

Note: "S1" output sensitivity is 2.0±0.002mV/V, input resistance is 384±4

DIMENSIONS IN MM



WIRING



- Shielded, 6 conductor cable.
- Cable diameter: Φ6mm.
- Standard cable length: 3m.
- Shield connected to element.

FEATURES

- Stainless/ alloy steel IP67 single point load cell
- Suitable for platform, belt and other electronic scales
- Maximum platform size: 50kg-1t: 600 x 800, 2t: 1000x1000 mm

AVAILABLE MODELS

Capacity	Accuracy	Full article description
xxkg	C3	B6G5/H6G5-C3-xxkg-3B6
xxkg	C3	B6G5/H6G5-C3-xxkg-3G6
"G" the Insulation resistance between bridge		

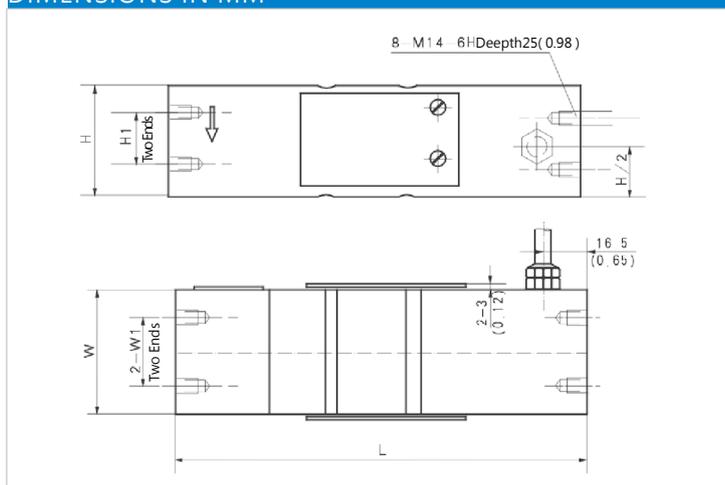


SPECIFICATION

	t	0.05/0.1/0.15/0.2/0.25/0.3/0.4/0.5/0.6/0.75/1/1.5/2
Maximum capacity (E _{max})		C3
Accuracy class		3000
Maximum number of load cell intervals (nLC)		10000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		±0.020
Combined error	%FS	±0.016
Creep	%FS/30min	±0.011
Temperature effect on sensitivity	%FS/10°C	±0.015
Temperature effect on zero	%FS/10°C	2.0±0.2
Output sensitivity (=FS)	mV/V	400±20
Input resistance	Ω	350±3.5
Output resistance	Ω	≥ 5000 (50VDC)
Insulation resistance	MΩ	±1.5
Zero balance	%FS	-10~+40
Compensated temperature	°C	-35~+65
Operating temperature	°C	5~12 (DC)
Excitation, recommended voltage	V	18 (DC)
Excitation maximum	V	150
Safe overload	%FS	300
Ultimate overload	%FS	0.02%load value/100mm
Corner correction		II1G Ex ia IIC T4 II1D Ex iaD20 T73°C II3G Ex nL II C T4
ATEX classification (optional)		

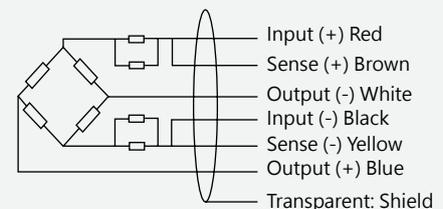
Note: "S1" output sensitivity is 2.0±0.002mV/V, input resistance is 384±4

DIMENSIONS IN MM



Capacity	Dimension	50kg~1t	1.5t~2t
	L	150 (5.91)	150 (5.91)
	H	77 (3.03)	88 (3.46)
	H1	46 (1.81)	55 (2.17)
	W	68 (2.68)	76 (2.99)
	W1	38 (1.50)	42 (1.65)

WIRING



- Adopt shielded, 4 conductor~cable: Φ6.2mm
- Standard cable length: 3m

B6N

FEATURES

- Stainless steel IP67 single point load cell.
- Bending beam.
- Suitable for weighing equipment like platform and belt scales.
- Maximum platform size: 400 x 400 mm.

AVAILABLE MODELS

Capacity	Accuracy	Full article description
5 kg	C3/C4	B6N-C3/C4 -5kg-1B6
7 kg	C3/C4	B6N-C3/C4 -7kg-1B6
8 kg	C3/C4	B6N-C3/C4 -8kg-1B6
10 kg	C3/C4	B6N-C3/C4 -10kg-1B6
15 kg	C3/C4	B6N-C3/C4 -15kg-1B6
20 kg	C3/C4	B6N-C3/C4 -20kg-1B6
30 kg	C3/C4	B6N-C3/C4 -30kg-1B6
50 kg	C3	B6N-C3-50kg-1B6
75 kg	C3	B6N-C3-75kg-1B6
100 kg	C3	B6N-C3-100kg-1B6
150 kg	C3	B6N-C3-150kg-1B6
200 kg	C3	B6N-C3-200kg-1B6



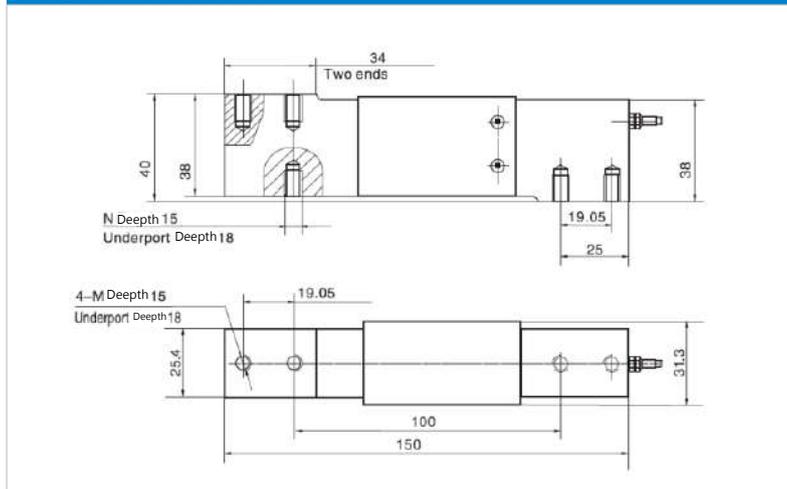
OIML test certificate no. TC8009 Revision 0 and D09-10.10 C of C no R60/2000-NL1-11.27 and R60/2000-DE1-10.04

SPECIFICATION

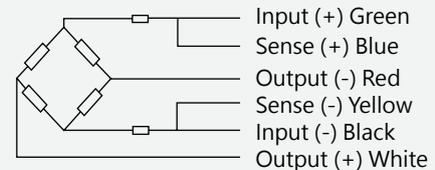
Accuracy class		OIML R60 C3	OIML R60 C4
Output sensitivity (=FS)	mV/V	2.0 ± 0.2	
Maximum capacity (E _{max})	kg	5/7/8/10/15/20/30/50/75/100/150/200	
Maximum number of load cell intervals (nLC)		3000	4000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	15000
Combined error	%FS	± 0.0230	± 0.0175
Minimum dead load	kg	0	
Safe overload	%FS	150	
Ultimate overload	%FS	300	
Zero balance	%FS	± 1.0	
Excitation, recommended voltage	V	5 ~ 12 (DC)	
Excitation maximum	V	18 (DC)	
Input resistance	Ω	400 ± 20	
Output resistance	Ω	350 ± 3.5	
Insulation resistance	MΩ	≥ 5000 (50VDC)	
Compensated temperature	°C	-10 ~ +40	
Operating temperature	°C	-35 ~ +65	
Storage temperature	°C	-40 ~ +70	
Element material		Stainless steel	
Ingress protection (according to EN 60529)		IP67	
Recommended torque on fixation	N.m	M6: 10	
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD 20 T73°C
			II3G Ex nL IIC T4

Note: "S1" output sensitivity is 2.0±0.002mV/V, input resistance is 384±4

DIMENSIONS IN MM



WIRING



- Shielded, 6 conductor cable.
- Cable diameter: Φ5mm
- Standard cable length: 1m
- Shield is not connected to element

BM6A

FEATURES

- Stainless steel IP68 single point load cell
- Suitable for platform, belt scales and other weighing devices
- Hermetically sealed
- Maximum platform size: 350 x 350 mm



AVAILABLE MODELS

xxkg	C3	BM6A-C3-xxkg-3B
xxkg	C3	BM6A-C3-xxkg-6B6
xxkg	C3	BM6A-C3-xxkg-3B-S1
xxkg	C3	BM6A-C3-xxkg-6B6-S1
xxlb	C3	BM6A-C3-xx-6YB6
xxlb	C3	BM6A-C3-xx-3YB

OIML Certificate (6Kg-60Kg C3 Class); "S1" Output Sensitivity is 2.0+/-0.002mV
Inch Model Output Sensitivity is 3.0±0.2mV/V



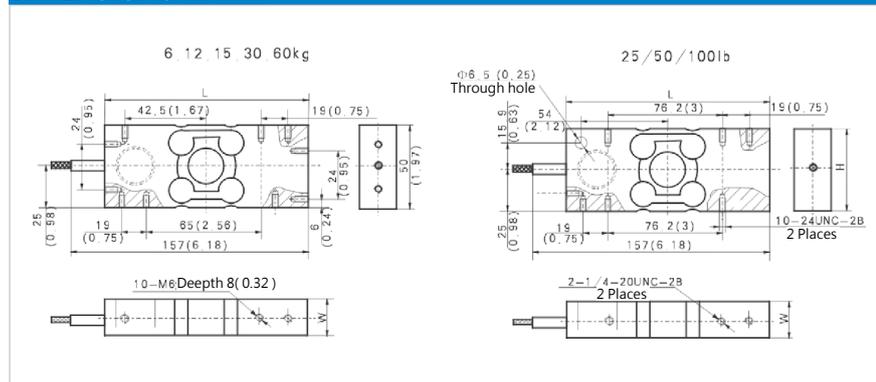
OIML test certificate no. TC7834 revision 1 C of C no R60/2000-NL1-10.32

SPECIFICATION

Maximum capacity (E _{max})	kg	6/12/15/30/60
	lb	25/50/100
Accuracy class		C3
Maximum number of load cell intervals (nLC)		3000
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$		10000
Combined error	%FS	±0.020
Creep	%FS/30min	±0.016
Temperature effect on sensitivity	%FS/10°C	±0.011
Temperature effect on zero	%FS/10°C	±0.015
Output sensitivity (=FS)	mV/V	3.0±0.008
Input resistance	Ω	400±20
Output resistance	Ω	351±2.0
Insulation resistance	MΩ	≥ 5000 (50VDC)
Zero balance	%FS	±1.5
Compensated temperature	°C	-10~+40
Operating temperature	°C	-35~+70
Excitation, recommended voltage	V	5~12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	150
Ultimate overload	%FS	300
Corner Correction		0.02%load value/100mm
Recommended torque on fixation	N.m	10
ATEX classification (optional)		II1G Ex ia II1C T4 II1D Ex iaD20 T73°C II3G Ex nL II C T4

Note: "S1" output sensitivity is 2.0±0.002mV/V, input resistance is 384±4.

DIMENSIONS IN MM



Capacity	Dimension	L	H	W
6,12,15,30kg		130(5.12)	50(1.96)	18.5(0.73)
60kg		130(5.12)	50(1.96)	23.5(0.92)
25lb		127.4(5.02)	50(1.96)	18.5(0.73)
50lb		127.4(5.02)	49.7(1.95)	18.5(0.73)
100lb		127.4(5.02)	46.3(1.82)	23.9(0.94)

WIRING

- Shielded cable, 6 conductor cable.
- Cable diameter: Φ6.2mm
- Standard cable length: 6m
- Shield is not connected to element

FEATURES

- Stainless steel IP68 single point load cell
- Suitable for single load cell structured platform scales
- High accuracy
- Maximum platform size: 600 x 600 mm

AVAILABLE MODELS

Capacity	Accuracy	Full article description
50kg	C3	BM6E-C3-50kg-2B
100kg	C3	BM6E-C3-100kg-2B
150kg	C3	BM6E-C3-150kg-2B
200kg	C3	BM6E-C3-200kg-2B
250kg	C3	BM6E-C3-250kg-2B
300kg	C3	BM6E-C3-300kg-2B

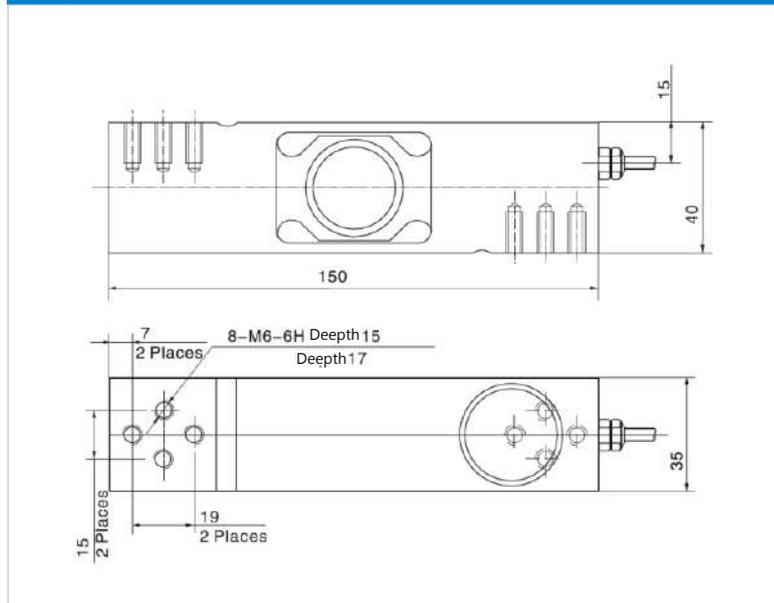


SPECIFICATION

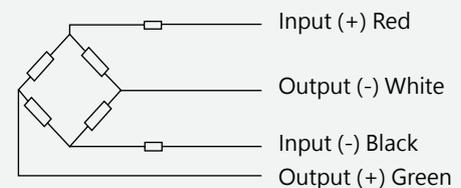
Accuracy class		C3
Output sensitivity (=FS)	mV/V	2.0 ± 0.2
Maximum capacity (E _{max})	kg	50/100/150/200/250/300
Maximum number of load cell intervals (nLC)		3000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000
Combined error	%FS	± 0.0230
Minimum dead load	%FS	0
Safe overload	%FS	150
Ultimate overload	%FS	300
Zero balance	%FS	± 1.5
Excitation, recommended voltage	V	5 ~ 12 (DC)
Excitation maximum	V	18 (DC)
Input resistance	Ω	350 ± 3.5
Output resistance	Ω	351 ± 2.0
Insulation resistance	MΩ	≥ 5000 (50VDC)
Compensated temperature	°C	-10 ~ +40
Operating temperature	°C	-35 ~ +65
Storage temperature	°C	-40 ~ +70
Element material		Stainless steel
Recommended torque on fixation	N.m	M6: 10
Corner correction		0.02 % load value / 100 mm
Ingress protection (according to EN 60529)		IP68

Note: "S1" output sensitivity is 2.0±0.002mV/V

DIMENSIONS IN MM



WIRING



- Shielded cable, 4 conductor cable.
- Cable diameter: Φ5mm.
- Standard cable length: 2m.
- Shield is not connected to element

BM6G

FEATURES

- Stainless steel IP68/IP69k single point load cell
- Suitable for platform, belt scales and other weighing devices
- Maximum platform size 800 x 800mm (for 100- 500 kg)
- Maximum platform size 400 x 400mm (for 10 - 50 kg)
- 10kg only available with PTB certificate D09-10.06 Revision 1 of C R60/2000 DE1-10.02
- 10kg, 20 kg, 50 kg also available with C4MR approval with PTB certificate D09-10.06 revision 1, C of C R60/2000 DE1-10.02 (Y=40000 Z=6000)



AVAILABLE MODELS

xxkg	C3/C3MR/C4MR/A6S/A6M/B10S/B10M	BM6G-xx-xxkg-3B
xxkg	C3/C3MR/C4MR/A6S/A6M/B10S/B10M	BM6G-xx-xxkg-3B-S1
NTEP A6S/A6M/B10S/B10M Certificate (20kg-500kg) OIML Certificate (10kg-500kg C3/C3 MR Class) OIML Certificate (10kg-50kg C4 Class)		



Certificate no. 12-017



test certificate no. TC8011 revision 0
C of C no R60/2000-NL1-11.29

SPECIFICATIONS

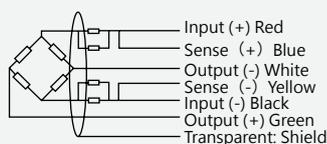
Capacity	kg	10 / 20 / 50 / 60/75 / 100 / 150 / 200 / 300 / 400 / 500/ 600			
Accuracy		C3	C4	A6M	A6S
Accuracy class		OIML R60 C3	OIML R60 C4		
Maximum number of load cell intervals (nLC)		3000	4000		
Ratio of minimum LC verification interval $Y=E_{max} / V_{min}$		10000	15000	15000	20000
Combined error	%FS	±0.0200	±0.0173	±0.0113	±0.009
Creep	%FS/30min	±0.0245	±0.0184	±0.0184	±0.008
Temperature effect on sensitivity	%FS/10°C	±0.0117	±0.0088	±0.0088	±0.006
Temperature effect on zero	%FS/10°C	±0.0140	±0.0093	±0.0093	±0.007
Output sensitivity (=FS)	mV/V	2.0 ±0.2			
Input resistance	Ω	10kg/ 20kg/ 50kgSE/ 75kgSE/ 100kgSE			100kg~600kg
Output resistance	Ω	380±15			350±3.5
Insulation resistance	MΩ	351±3.5			
Zero balance	%FS	≥ 5000 (50VDC)			
Compensated temperature	°C	±2.0			
Operating temperature	°C	-10~ +40			
Storage temperature	°C	-35~ +65			
Excitation, recommended voltage	V	-40 ~ +70			
Excitation maximum	V	5~12 (DC)			
Safe overload	%FS	18 (DC)			
Ultimate overload	%FS	150			
Recommended torque on fixation	N.m	10kg/20kg/50kgSE/75kgSE/100kgSE			100kg~600kg
Ingress protection (according to EN 60529)		10			20
ATEX classification (optional)		IP68/IP69K			
		II1G Ex ia II1C T4	II1D Ex iaD20 T73°C	II3G Ex nL II C T4	

Note: "S1" output sensitivity is 2.0±0.002mV/V

OUTLINE DIMENSION MM(INCH)



WIRING



- Adopt shielded, 6 conductor cable: Φ5mm
- Standard cable length: 3m

FEATURES

- Nickel plated alloy steel IP66 single point load cell
- Bending beam
- Suitable for belt, platform and other electronic weighing devices
- Maximum platform size: for 50kg-200kg: 400 x 400 mm for 250kg-500kg: 600 x 800 mm for 750kg-2t: 1200 x 1200 mm

AVAILABLE MODELS

Capacity	Accuracy	Full article description
100 kg	C3	H6F-C3-100kg-3B6
150 kg	C3	H6F-C3-150kg-3B6
200 kg	C3	H6F-C3-200kg-3B6
250 kg	C3	H6F-C3-250kg-3B6
500 kg	C3	H6F-C3-500kg-3B6
750 kg	C3	H6F-C3-750kg-3B6
1000 kg	C3	H6F-C3-1000kg-3B6
2000 kg	C3	H6F-C3-2000kg-3B6

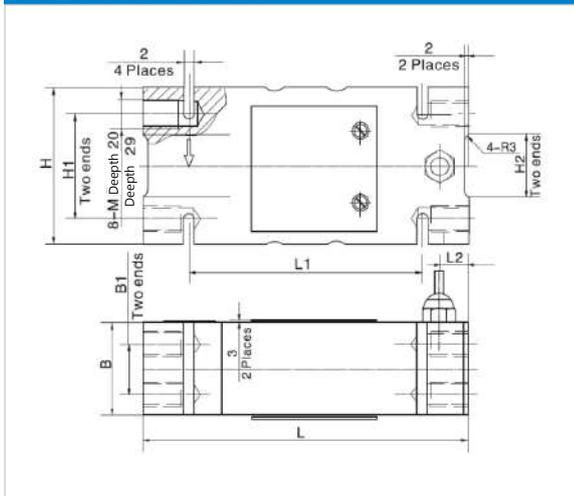


SPECIFICATION

Accuracy class		C3		
Output sensitivity (=FS)	mV/V	2.0 ± 0.2		
Maximum capacity (E _{max})	kg	100/150/200/250/500/750/1000/2000		
Maximum number of load cell intervals (nLC)		3000		
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$		7500		
Combined error	%FS	± 0.020		
Minimum dead load	%FS	0		
Safe overload	%FS	150		
Ultimate overload	%FS	300		
Zero balance	%FS	± 1.0		
Excitation, recommended voltage	V	5 ~ 12 (DC)		
Excitation maximum	V	18 (DC)		
Input resistance	Ω	400 ± 20		
Output resistance	Ω	351 ± 2		
Insulation resistance	MΩ	≥ 5000 (50VDC)		
Compensated temperature	°C	-10 ~ +40		
Operating temperature	°C	-35 ~ +65		
Storage temperature	°C	-40 ~ +70		
Element material		Nickel plated alloy steel		
Ingress protection (according to EN 60529)		IP66		
Recommended torque on fixation	N.m	M12:75 (Below 500kg)		M16:200 (750kg-2000kg)
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD 20 T73°C	II3G Ex nL IIC T4

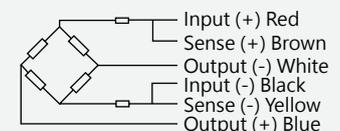
Note: "S1" output sensitivity is 2.0±0.002mV/V, input resistance is 384±4

DIMENSIONS IN MM



Dimension	50kg	250kg	750kg
Capacity	200kg	500kg	2t
B	44 (1.73)	60 (2.36)	76 (2.99)
B1	24 (0.94)	36 (1.42)	46 (1.81)
H	75 (2.95)	95 (3.74)	125 (4.92)
H1	50 (1.97)	70 (2.76)	95 (3.74)
H2	30 (1.18)	30 (1.18)	65 (2.56)
L	156 (6.14)	146 (5.75)	176 (6.93)
L1	112 (4.4)	110 (4.33)	110 (4.33)
L2	14 (0.55)	11 (0.43)	24 (0.94)
M	M12	M12	M16

WIRING



- Shielded, 6 conductor cable.
- Cable diameter: Φ 6.2mm
- Standard cable length: 3m
- Shield is not connected to element

H6G

FEATURES

- Alloy steel IP66 single point load cell
- Nickel plated
- Suitable for platform, belt and other electronic scales
- Maximum platform size: 600 x 600 mm



AVAILABLE MODELS

Capacity	Accuracy	Full article description
xxkg	C3	H6G-C3-xxkg-3B6
xxkg	C3	H6G-C3-xxkg-3G6

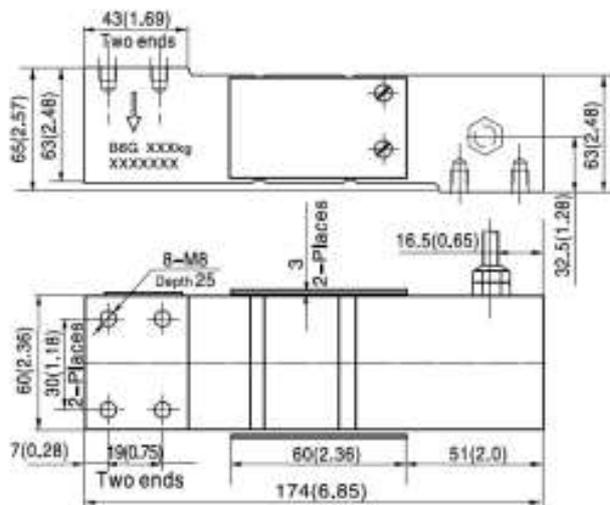
G:The Insulation resistance between bridge circuit and shielded wire is zero

SPECIFICATION

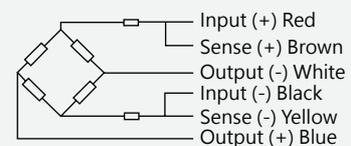
Accuracy class		C3
Output sensitivity (=FS)	mV/V	2.0 ± 0.2
Maximum capacity (E _{max})	kg	100/150/200/250/300/500/600
Maximum number of load cell intervals (nLC)		3000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000
Combined error	%FS	± 0.020
Safe overload	%FS	150
Ultimate overload	%FS	300
Zero balance	%FS	± 1.0
Excitation, recommended voltage	V	5 ~ 12 (DC)
Excitation maximum	V	18 (DC)
Input resistance	Ω	384 ± 4
Output resistance	Ω	351 ± 2
Insulation resistance	MΩ	≥ 5000 (50VDC)
Compensated temperature	°C	-10 ~ +40
Operating temperature	°C	-35 ~ +70
Element material		Alloy steel, nickel plated
Ingress protection (according to EN 60529)		IP66
Recommended torque on fixation	N.m	20
ATEX classification (optional)		II1G Ex ia IIC T4 II1D Ex iaD 20 T73°C II3G Ex nL IIC T4

Note: "S1" output sensitivity is 2.0±0.002mV/V,input resistance is 384±4

DIMENSIONS IN MM



WIRING



- Shielded, 6 conductor cable.
- Standard cable length: 3m.
- Transparent shield.
- Cable type and cable length for customer's own application are available on request.
- Shield is not connected to element.

FEATURES

- Aluminium-alloy IP65 single point load cell.
- Colourless anodized
- Suitable for pricing scales, bench scales, etc.
- Recommended platform size: 200 x 200mm



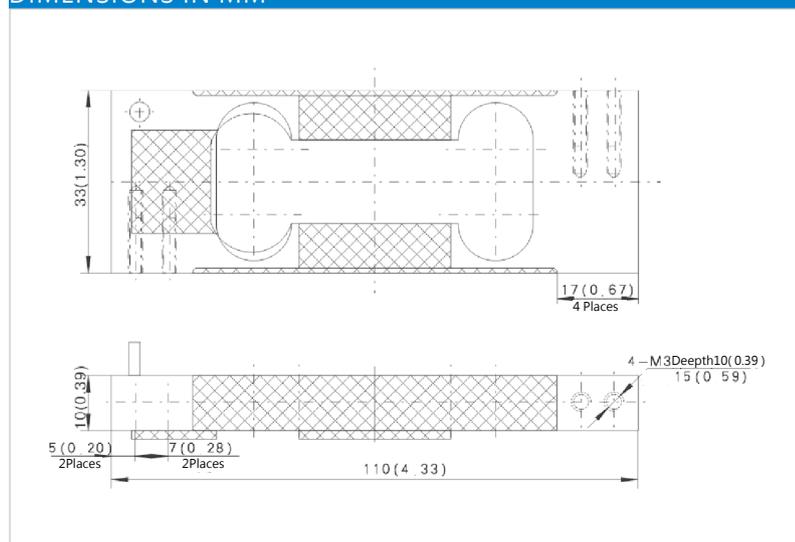
AVAILABLE MODELS

Capacity	Accuracy	Full article description
0.3 kg	L/H	L6B-L/H-0.3kg-0.4B
0.6 kg	L/H	L6B-L/H-0.6kg-0.4B
1.0 kg	L/H	L6B-L/H-1.0kg-0.4B
1.2 kg	L/H	L6B-L/H-1.2kg-0.4B
1.5 kg	L/H	L6B-L/H-1.5kg-0.4B
3.0 kg	L/H	L6B-L/H-3.0kg-0.4B

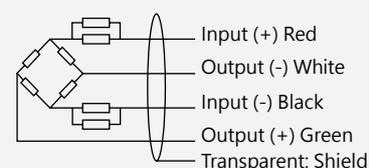
SPECIFICATION

		L	H
Accuracy class			
Output sensitivity (=FS)	mV/V	0.9 ± 0.1	
Maximum capacity (Emax)	kg	0.3/0.6/1.0/1.2/1.5/3	
Linearity	%FS	± 0.015	± 0.012
Hysteresis	%FS	± 0.015	± 0.012
Repeatability	%FS	± 0.015	± 0.012
Temperature effect on Minimum dead load output	%FS/10°C	± 0.030	± 0.020
Temperature effect on output	%FS/10°C	± 0.030	± 0.020
Combined error	%FS	± 0.010	± 0.005
Eccentric loading error	%FS	± 0.0200	
Minimum dead load	%FS	0	
Safe overload	%FS	120	
Ultimate overload	%FS	150	
Zero balance	%FS	± 2.0	
Excitation, recommended voltage	V	5 ~ 12 (DC)	
Excitation maximum	V	18 (DC)	
Input resistance	Ω	406 ± 6	
Output resistance	Ω	350 ± 3	
Insulation resistance	MΩ	≥ 5000 (50VDC)	
Compensated temperature	°C	-10 ~ +40	
Operating temperature	°C	-20 ~ +50	
Storage temperature	°C	-35 ~ +65	
Element material		Aluminium	
Recommended torque on fixation	N.m	5	
Ingress protection (according to EN 60529)		IP65	

DIMENSIONS IN MM



WIRING



- Shielded, 4 conductor cable.
- Cable diameter: Φ2.9mm.
- Standard cable length: 0.40m
- Shield is not connected to element.
- Cable jacket in PVC.

L6C

FEATURES

- Aluminium-alloy IP65 single point load cell.
- Colourless anodized
- Suitable for counting and other electronic scales
- Maximum platform size: 350 x 450 mm



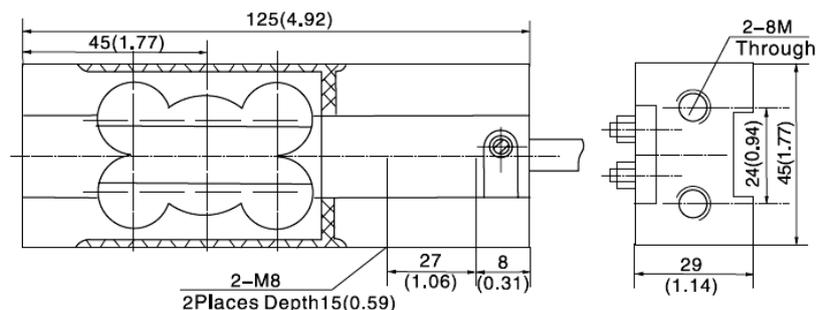
AVAILABLE MODELS

Capacity	Accuracy	Full article description
3 kg	C3D/C3	L6C-C3D/C3-3kg-2B
5 kg	C3D/C3	L6C-C3D/C3-5kg-2B
8 kg	C3D/C3	L6C-C3D/C3-8kg-2B
20 kg	C3D/C3	L6C-C3D/C3-20kg-2B
30 kg	C3D/C3	L6C-C3D/C3-30kg-2B
50 kg	C3D/C3	L6C-C3D/C3-50kg-2B

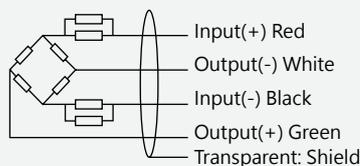
SPECIFICATION

		C3D	C3
Accuracy class			
Output sensitivity (=FS)	mV/V	1.9 ± 0.2	
Maximum capacity (E _{max})	kg	3/5/8/20/30/50	
Maximum number of load cell intervals (nLC)		2500	3000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		5000	10000
Combined error	%FS	± 0.0280	± 0.0200
Safe overload	%FS	120	
Ultimate overload	%FS	150	
Zero balance	%FS	± 2.0	
Excitation, recommended voltage	V	5 ~ 12 (DC)	
Excitation maximum	V	18 (DC)	
Input resistance	Ω	406 ± 6	
Output resistance	Ω	350 ± 3	
Insulation resistance	MΩ	≥ 5000 (50VDC)	
Compensated temperature	°C	-10 ~ +40	
Operating temperature	°C	-35 ~ +65	
Element material		Aluminium	
Recommended torque on fixation	N.m	20	
Ingress protection (according to EN 60529)		IP65	

DIMENSIONS IN MM



WIRING



- Shielded, 4 conductor cable
- Cable diameter: Φ5.3mm
- Standard cable length: 2m
- Shield connected to element
- Cable jacket in PVC

FEATURES

- Aluminium-Alloy IP65 single point load cell
- Colourless anodized
- Suitable for pricing scales, bench scales, etc.
- Maximum platform size: 250 x 350 mm



AVAILABLE MODELS

Capacity	Accuracy	Full article description
2.5 kg	C3 Excluded from OIML	L6D-C3-2.5kg-0.4B
3 kg	C3/C4/C5	L6D-C3/C4/C5-3kg-0.4B
5 kg	C3/C4/C5	L6D-C3/C4/C5-5kg-0.4B
6 kg	C3/C4/C5	L6D-C3/C4/C5-6kg-0.4B
8 kg	C3/C4/C5	L6D-C3/C4/C5-8kg-0.4B
10 kg	C3/C4/C5	L6D-C3/C4/C5-10kg-0.4B
15 kg	C3/C4/C5	L6D-C3/C4/C5-15kg-0.4B
20 kg	C3/C4/C5	L6D-C3/C4/C5-20kg-0.4B
30 kg	C3/C4/C5	L6D-C3/C4/C5-30kg-0.4B
35 kg	C3/C4/C5	L6D-C3/C4/C5-35kg-0.4B
40 kg	C3/C4/C5	L6D-C3/C4/C5-40kg-0.4B
50 kg	C3/C4/C5	L6D-C3/C4/C5-50kg-0.4B



Certificate no. 11-012

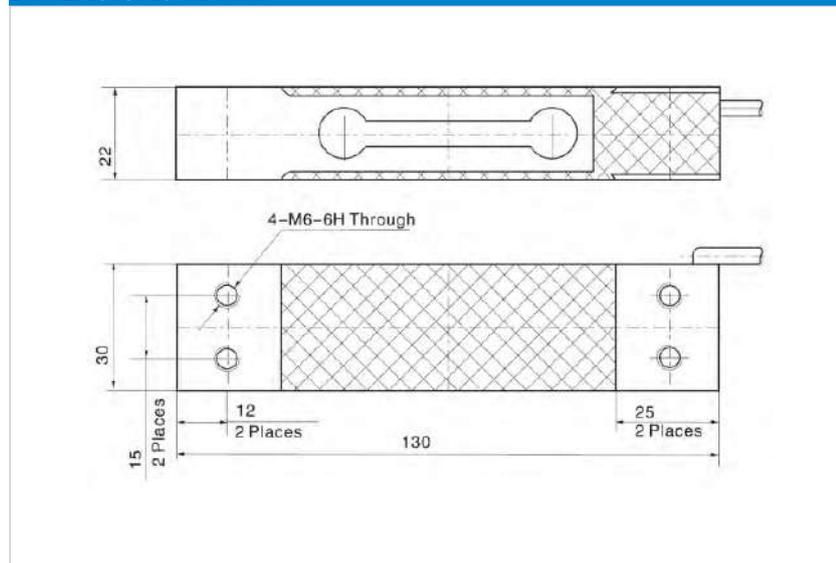


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C of C no R60/2000-NL1-12.52 TC7868 revision 1

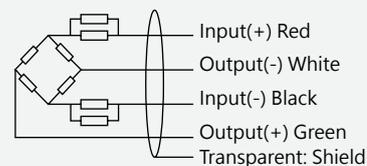
SPECIFICATION

Accuracy class		C3	OIML R60 C3	OIML R60 C4	OIML R60 C5
Output sensitivity (=FS)	mV/V	2.0 ± 0.2			
Maximum capacity (Emax)	kg	2.5	3/5/6/8/10/15/20/30/35/40/50		
Maximum number of load cell intervals (nLC)		3000	3000	4000	5000
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$		10000	10000	15000	20000
Combined error	%FS	± 0.02		± 0.0150	± 0.01
Minimum dead load	%FS	0			
Safe overload	%FS	120			
Ultimate overload	%FS	150			
Zero balance	%FS	± 2.0			
Excitation, recommended voltage	V	5 ~ 12 (DC)			
Excitation maximum	V	18 (DC)			
Input resistance	Ω	406 ± 6			
Output resistance	Ω	350 ± 3			
Insulation resistance	MΩ	≥ 5000 (50VDC)			
Compensated temperature	°C	-10 ~ +40			
Operating temperature	°C	-35 ~ +65			
Storage temperature	°C	-40 ~ +70			
Element material		Aluminium			
Recommended torque on fixation	N.m	< 30kg: 6		≥ 30kg:10	
Ingress protection (according to EN 60529)		IP65			

DIMENSIONS IN MM



WIRING



- Shielded, 4 conductor cable.
- Cable diameter: Φ3.8mm.
- Standard cable length: 0.40m
- Shield is not connected to element.
- Cable jacket in PVC.

L6D-FS

FEATURES

- Aluminum-alloy IP65 single point load cell
- Colourless anodized. High waterproof ability
- Suitable for pricing scales, bench scales, etc.
- Maximum platform size:250*350mm

AVAILABLE MODELS

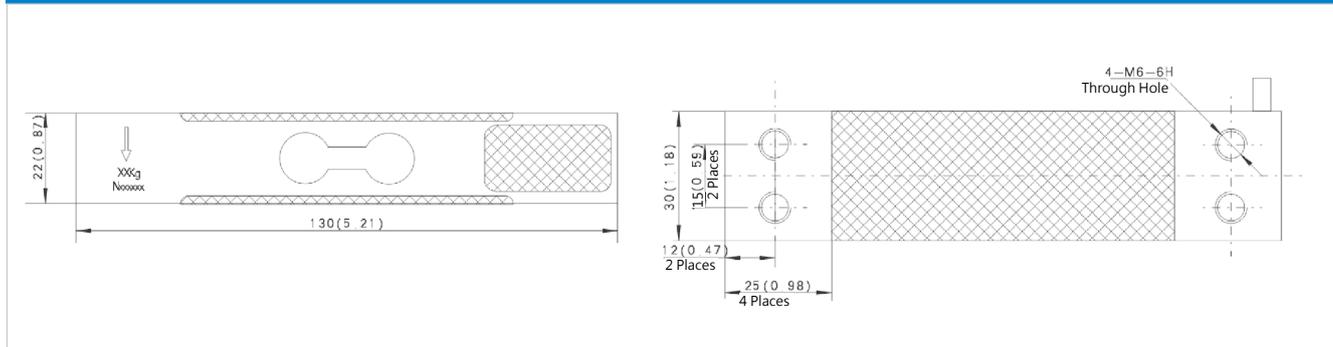
Capacity	Accuracy	Full article description
3kg-50kg	C3	L6D-C3-xxkg-0.45B-FS



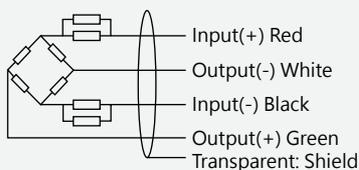
SPECIFICATION

Maximum capacity (E _{max})	kg	3/5/6/8/10/15/20/25/30/35/40/50
Output sensitivity (=FS)	mV/V	2.0±0.2
Accuracy class		C3
Combined error	%FS	±0.02
Creep	%FS/30min	±0.0167
Temperature effect on sensitivity	%FS/10°C	±0.0175
Temperature effect on zero	%FS/10°C	±0.02
Zero balance	%FS	±2
Compensated temperature	°C	-10~ +40
Operating temperature	°C	-35~ +65
Input resistance	Ω	406±6
Output resistance	Ω	350±3
Insulation resistance	MΩ	≥ 5000 (50VDC)
Excitation, recommended voltage	V	5~12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	120
Ultimate overload	%FS	150
Ingress protection (according to EN 60529)		IP65
Recommended installation size	mm	250×350
Corner correction		0.02%load value/100mm
Recommended torque on fixation	N.m	6

DIMENSIONS IN MM



WIRING



- Shielded, 4 conductor cable
- Cable diameter: Φ3.8mm
- Standard cable length: 0.45m
- Shield is not connected to element
- Cable jacket in PVC

FEATURES

- Aluminium-alloy IP65 single point load cell
- Colourless anodized
- Suitable for pricing scales, bench scales, etc.
- Maximum platform size: 350 x 350 mm



AVAILABLE MODELS

Capacity	Accuracy	Full article description
50 kg	C3/C4	L6D8-C3/C4-50kg-1.6B
75 kg	C3/C4	L6D8-C3/C4-75kg-1.6B
100 kg	C3/C4	L6D8-C3/C4-100kg-1.6B
150 kg	C3/C4	L6D8-C3/C4-150kg-1.6B
200 kg	C3/C4	L6D8-C3/C4-200kg-1.6B

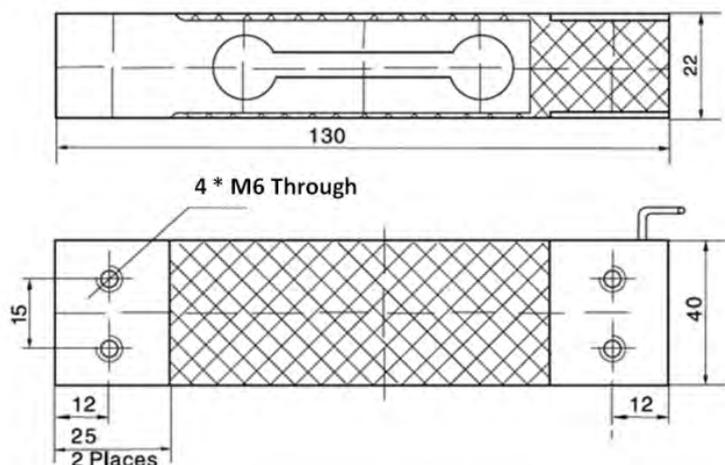


test certificate no. D09-09.12

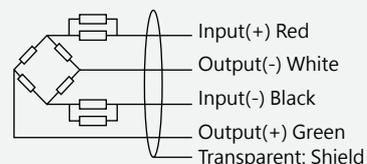
SPECIFICATION

Accuracy class		OIML R60 C3	OIML R60 C4
Output sensitivity (=FS)	mV/V	2.0 ± 0.2	
Maximum capacity (E _{max})	kg	50/75/100/150/200	
Maximum number of load cell intervals (nLC)		3000	4000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	16000
Combined error	%FS	± 0.02	± 0.015
Minimum dead load	%FS	0	
Safe overload	%FS	120	
Ultimate overload	%FS	150	
Zero balance	%FS	± 2.0	
Excitation, recommended voltage	V	5 ~ 12 (DC)	
Excitation maximum	V	18 (DC)	
Input resistance	Ω	406 ± 6	
Output resistance	Ω	350 ± 3	
Insulation resistance	MΩ	≥ 5000 (50VDC)	
Compensated temperature	°C	-10 ~ +40	
Operating temperature	°C	-35 ~ +65	
Storage temperature	°C	-40 ~ +70	
Element material		Aluminium	
Recommended torque on fixation	N.m	M6: 10	
Ingress protection (according to EN 60529)		IP65	

DIMENSIONS IN MM



WIRING



- Shielded, 4 conductor cable.
- Cable diameter: Φ3.8mm.
- Standard cable length: 1.60m.
- Shield is not connected to element.
- Cable jacket in PVC.

FEATURES

- L6D16 load cells are available in the capacities 3kg-40kg.
- Aluminum, surface anodized, special protection process, anti-corrosion, high waterproof ability.
- Suitable for electronic pricing scales, electronic platform scales and other electronic weighing devices.



AVAILABLE MODELS

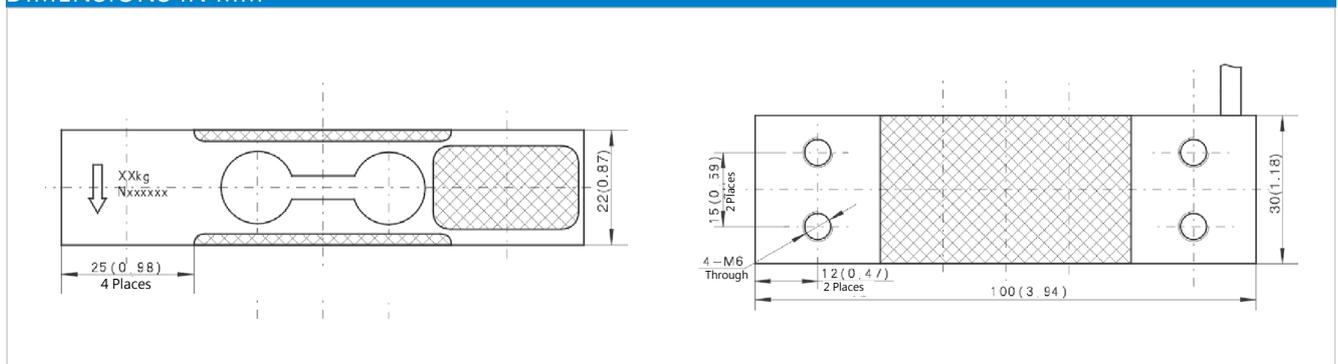
3kg-40kg	C3	L6D16-C3-xxkg-0.22B
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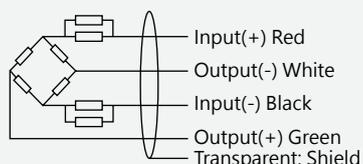
SPECIFICATION

Maximum capacity (E _{max})	kg	3/5/8/10/20/30/40	
Output sensitivity (=FS)	mV/V	2.0±0.2	
Accuracy class		C3	
Combined error	%FS	±0.02	
Creep	%FS/30min	±0.0167	
Temperature effect on sensitivity	%FS/10°C	±0.0175	
Temperature effect on zero	%FS/10°C	±0.02	
Zero balance	%FS	±2	
Compensated temperature	°C	-10~ +40	
Operating temperature	°C	-35~ +65	
Input resistance	Ω	406±6	
Output resistance	Ω	350±3	
Insulation resistance	MΩ	≥ 5000 (50VDC)	
Excitation, recommended voltage	V	5~12 (DC)	
Excitation maximum	V	18 (DC)	
Safe overload	%FS	120	
Ultimate overload	%FS	150	
Ingress protection (according to EN 60529)		IP65	
Recommended installation size	mm	250×350	
Corner correction		0.02%load value/100mm	
Recommended torque on fixation	N.m	3kg-30kg	6
		40kg	10

DIMENSIONS IN MM



WIRING

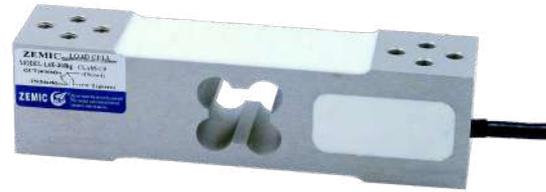


- Shielded, 4 conductor cable.
- Cable diameter: Φ3.8mm.
- Standard cable length: 0.22m.
- Shield is not connected to element.
- Cable jacket in PVC.

L6E

FEATURES

- Aluminium-Alloy IP65 single point load cell
- Colourless anodized
- Suitable for pricing scales, bench scales, etc.
- Maximum platform size: 400 x 400mm



AVAILABLE MODELS

Capacity	Accuracy	Full article description
50 kg	C3/C4/C5	L6E-C3/C4/C5-50kg-2B
60 kg	C3/C4/C5	L6E-C3/C4/C5-60kg-2B
80 kg	C3/C4/C5	L6E-C3/C4/C5-80kg-2B
100 kg	C3/C4/C5	L6E-C3/C4/C5-100kg-2B
150 kg	C3/C4/C5	L6E-C3/C4/C5-150kg-2B
200 kg	C3/C4/C5	L6E-C3/C4/C5-200kg-2B
300 kg	C3/C4/C5	L6E-C3/C4/C5-300kg-2B



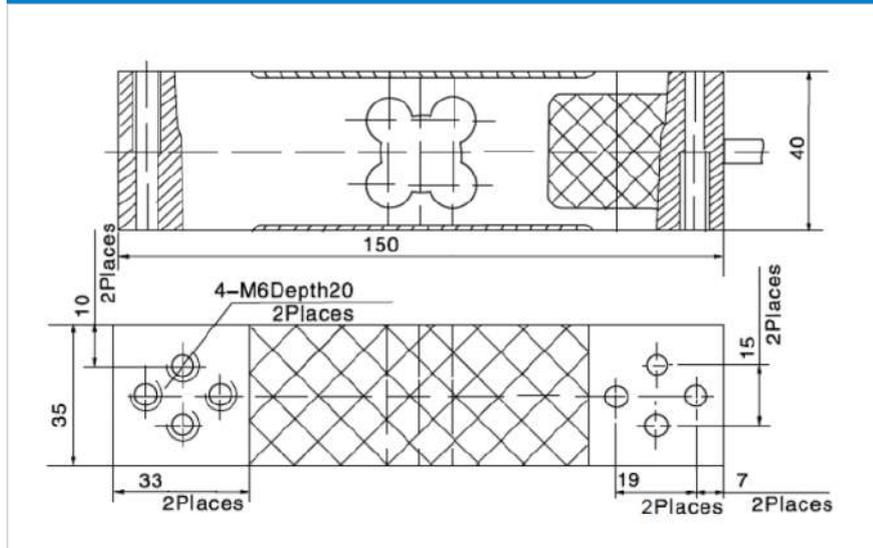
Certificate no. 11-062

test certificate no. TC7838 Revision 0
C of C no R60/2000-NL1-10.22

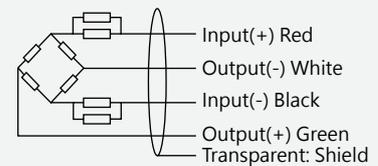
SPECIFICATION

Accuracy class	Output sensitivity (=FS)	OIML R60 C3		OIML R60 C4		OIML R60 C5	
		50/60/80/100	150/200/300	50/60/80/100	150/200/300	50/60/80/100	150/200/300
Maximum capacity (E _{max})	kg			2.0 ± 0.2			
Maximum number of load cell intervals (nLC)		3000		4000		5000	
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000		15000		20000	
Combined error	%FS	± 0.02		± 0.015		± 0.01	
Minimum dead load	%FS			0			
Safe overload	%FS			120			
Ultimate overload	%FS			150			
Zero balance	%FS			< ± 2.0			
Excitation, recommended voltage	V			5 ~ 12 (DC)			
Excitation maximum	V			18			
Input resistance	Ω			406 ± 6			
Output resistance	Ω			350 ± 3			
Insulation resistance	MΩ			≥ 5000 (50VDC)			
Compensated temperature	°C			-10 ~ +40			
Operating temperature	°C			-35 ~ +65			
Storage temperature	°C			-40 ~ +70			
Element material				Aluminium			
Recommended torque on fixation	N.m			M6:10			
Ingress protection (according to EN 60529)				IP65			

DIMENSIONS IN MM



WIRING



- Shielded, 4 conductor cable.
- Cable diameter: Φ5.3mm
- Standard cable length: 2m
- Shield is not connected to element
- Cable jacket in PVC

FEATURES

- Aluminium-alloy IP65 single point load cell.
- Colourless anodized
- Suitable for pricing scales, bench scales, etc
- Maximum platform size: 450 x 450 mm

AVAILABLE MODELS

Capacity	Accuracy	Full article description
50 kg	C3/C4	L6E3-C3/C4-50kg-2G
100 kg	C3/C4	L6E3-C3/C4-100kg-2G
150 kg	C3/C4	L6E3-C3/C4-150kg-2G
200 kg	C3/C4	L6E3-C3/C4-200kg-2G
250 kg	C3/C4	L6E3-C3/C4-250kg-2G
300 kg	C3/C4/C5	L6E3-C3/C4/C5-300kg-2G
400 kg	C3/C4/C5	L6E3-C3/C4/C5-400kg-2G
500 kg	C3/C4/C5	L6E3-C3/C4/C5-500kg-2G



Certificate no. 11-062

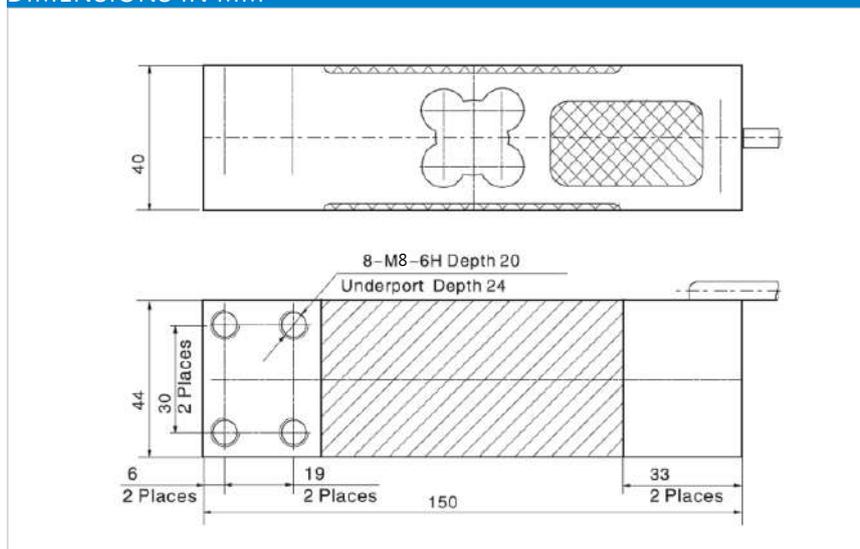


test certificate no. TC7836 Revision 1
C of C no R60/2000-NL1-10.34

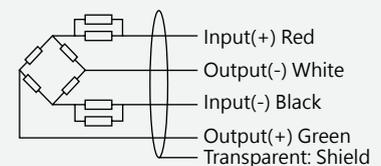
SPECIFICATION

Accuracy class		OIML R60 C3	OIML R60 C4	OIML R60 C5
Output sensitivity (=FS)	mV/V	2.0 ± 0.2		
Maximum capacity (E _{max})	kg	50/100/150/200/250/300/400/500		
Maximum number of load cell intervals (nLC)		3000	4000	5000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	15000	20000
Combined error	%FS	± 0.0200	± 0.015	± 0.01
Minimum dead load	%FS	0		
Safe overload	%FS	120		
Ultimate overload	%FS	150		
Zero balance	%FS	± 2.0		
Excitation, recommended voltage	V	5 ~ 12 (DC)		
Excitation maximum	V	18		
Input resistance	Ω	406 ± 6		
Output resistance	Ω	350 ± 3		
Insulation resistance	MΩ	≥ 5000 (50VDC)		
Compensated temperature	°C	-10 ~ +40		
Operating temperature	°C	-35 ~ +65		
Storage temperature	°C	-40 ~ +70		
Element material		Aluminium		
Recommended torque on fixation	N.m	M6:10		
Ingress protection (according to EN 60529)		IP65		

DIMENSIONS IN MM



WIRING

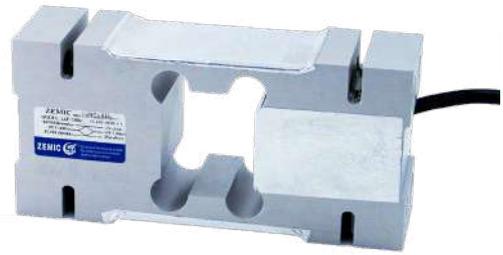


- Shielded, 4 conductor cable
- Cable diameter: Φ5.3mm
- Standard cable length: 2m
- Shield connected to element
- Cable jacket in PVC

L6F

FEATURES

- Aluminium-alloy IP65 single point load cell.
- Colourless anodized
- Suitable for belt, pricing and platform scales
- Maximum platform size: for 50kg-200kg: 600 x 600 mm for 250kg-500kg: 600 x 800 mm for 750kg-2t: 1200 x 1200 mm



AVAILABLE MODELS

Capacity	Accuracy	Full article description
50 kg	C3	L6F-C3-50kg-3B6
100 kg	C3	L6F-C3-100kg-3B6
150 kg	C3	L6F-C3-150kg-3B6
200 kg	C3	L6F-C3-200kg-3B6
250 kg	C3	L6F-C3-250kg-3B6
500 kg	C3	L6F-C3-500kg-3B6
750 kg	C3	L6F-C3-750kg-3B6
1000 kg	C3	L6F-C3-1000kg-3B6
2000 kg	C3	L6F-C3-2000kg-3B6

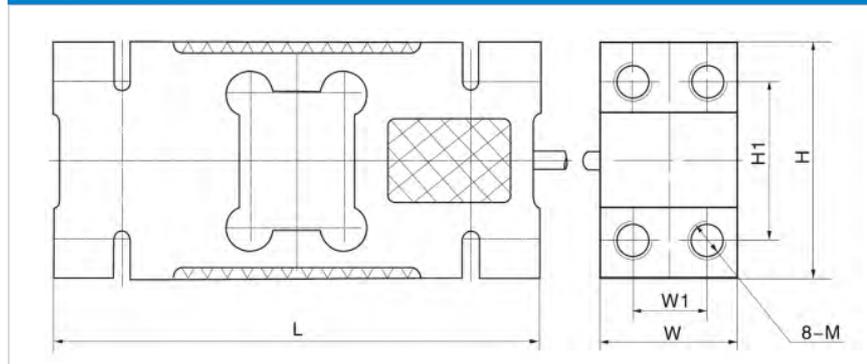


OIML test certificate no. D09-06.10
C of C no R60/2000-CN1-06.01

SPECIFICATION

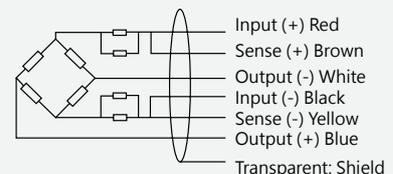
		OIML R60 C3
Accuracy class		2.0 ± 0.2
Output sensitivity (=FS)	mV/V	50/100/150/200/250/500/750/1000/2000
Maximum capacity (E _{max})	kg	3000
Maximum number of load cell intervals (nLC)		7000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		± 0.02
Combined error	%FS	0%
Minimum dead load	kg	120
Safe overload	%FS	150
Ultimate overload	%FS	± 2.0
Zero balance	%FS	5 ~ 12 (DC)
Excitation, recommended voltage	V	18 (DC)
Excitation maximum	V	406 ± 6
Input resistance	Ω	350 ± 3
Output resistance	Ω	≥ 5000 (50VDC)
Insulation resistance	MΩ	-10 ~ +40
Compensated temperature	°C	-35 ~ +65
Operating temperature	°C	-40 ~ +70
Storage temperature	°C	Aluminium
Element material		M12: 100 M16: 160
Recommended torque on fixation	N.m	IP65
Ingress protection (according to EN 60529)		

DIMENSIONS IN MM



Capacity	Dimension	H	H1	L	W	W1	M
50~200kg, 250kgSE		75 (2.95)	50 (1.97)	156 (6.14)	44 (1.73)	24 (0.94)	M12Depth20
250~500kg, 250kgSE		95 (3.74)	70 (2.76)	146 (5.75)	60 (2.36)	36 (1.41)	M12Depth18
750~2000kg		125 (4.92)	95 (3.74)	176(6.93)	76 (2.99)	46 (1.81)	M16Depth20

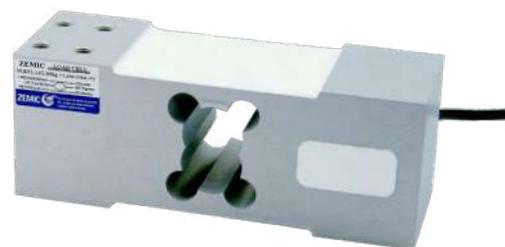
WIRING



- Shielded, 6 conductor cable
- Cable diameter: Φ6.2mm
- Standard cable length: 3m
- Shield is not connected to element.
- Cable jacket in PVC

FEATURES

- Aluminium-alloy IP65 single point load cell.
- Colourless anodized
- Suitable for single and double load cells structured platform scales.
- Maximum platform size: 600 x 600 mm
- A 1000 Ohm type available (R1) but is excluded from OIML



AVAILABLE MODELS

Capacity	Accuracy	Full article description
50 kg	C3	L6G-C3-50kg-3G6
100 kg	C3	L6G-C3-100kg-3G6
150 kg	C3/C4	L6G-C3/C4 -150kg-3G6
200 kg	C3/C4	L6G-C3/C4 -200kg-3G6
250 kg	C3/C4	L6G-C3/C4 -250kg-3G6
300 kg	C3/C4	L6G-C3/C4 -300kg-3G6
500 kg	C3/C4	L6G-C3/C4 -500kg-3G6
600 kg	C3/C4	L6G-C3/C4 -600kg-3G6

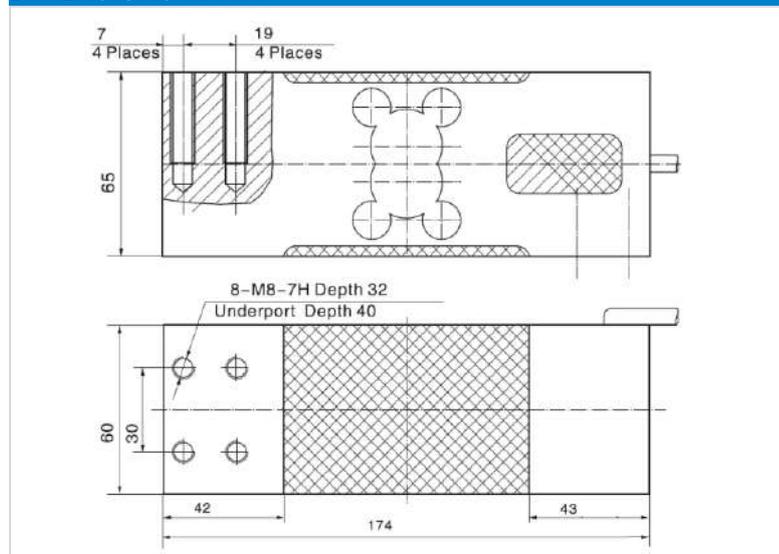


OIML test certificate no. D09-03.22 Revision 2
C of C no R60/2000-CN1-00.03revision 1

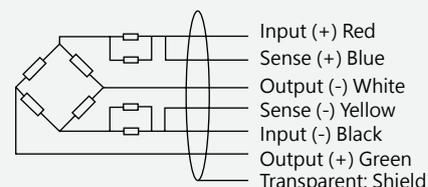
SPECIFICATION

Accuracy class		OIML R60 C3	OIML R60 C4
Output sensitivity (=FS)	mV/V	2.0 ± 0.2	
Maximum capacity (E _{max})	kg	50/100/150/200/250/300/500/600	150/200/250/300/500/600
Maximum number of load cell intervals (nLC)		3000	4000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	15000
Combined error	%FS	± 0.02	± 0.0150
Minimum dead load	kg	0	
Safe overload	%FS	120	
Ultimate overload	%FS	150	
Zero balance	%FS	± 2.0	
Excitation, recommended voltage	V	5 ~ 12 (DC)	
Excitation maximum	V	18 (DC)	
Input resistance	Ω	406 ± 6	
Output resistance	Ω	350 ± 3	
Insulation resistance	MΩ	≥ 5000 (50VDC)	
Compensated temperature	°C	-10 ~ +40	
Operating temperature	°C	-35 ~ +65	
Storage temperature	°C	-40 ~ +70	
Element material		Aluminium	
Recommended torque on fixation	N.m	M8:25	
Ingress protection (according to EN 60529)		IP65	

DIMENSIONS IN MM



WIRING



- Shielded, 6 conductor cable
- Cable diameter: Φ5.9mm
- Cable length: 3m
- Shield connected to element
- Cable jacket in PVC

L6H5

FEATURES

- Aluminium-Alloy IP65 single point load cell
- Colourless anodized
- Suitable for single or double load cell structured platform scales
- Recommended platform size: 200 x 200 mm

AVAILABLE MODELS

Capacity	Accuracy	Full article description
4 kg	C3	L6H5-C3-4kg-0.5B
5 kg	C3	L6H5-C3-5kg-0.5B
6 kg	C3	L6H5-C3-6kg-0.5B
8 kg	C3	L6H5-C3-8kg-0.5B
10 kg	C3	L6H5-C3-10kg-0.5B
20 kg	C3	L6H5-C3-20kg-0.5B
30 kg	C3	L6H5-C3-30kg-0.5B

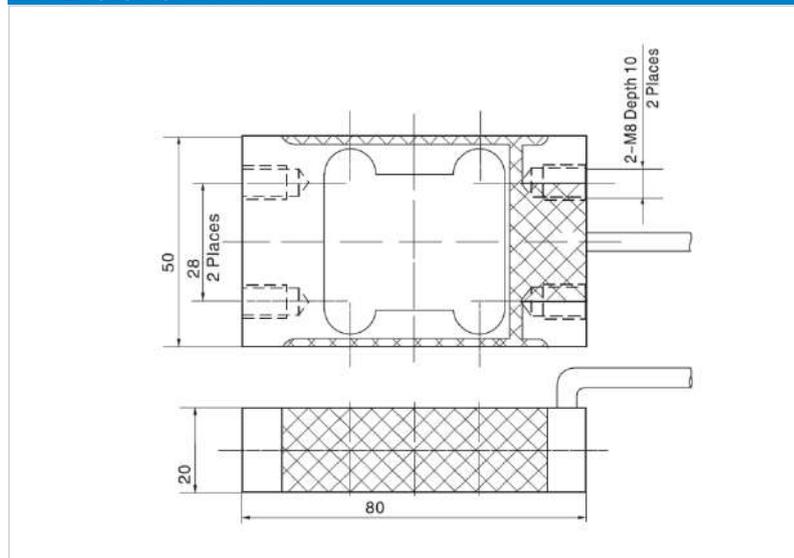


OIML test certificate no. TC7839 Revision 0
C of C no R60/2000-NL1-10.23

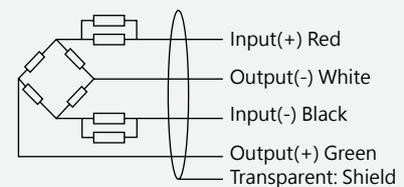
SPECIFICATION

Specification	Unit	OIML R60 C3
Accuracy class		OIML R60 C3
Output sensitivity (=FS)	mV/V	2.0 ± 0.2
Maximum capacity (E _{max})	kg	4/5/6/8/10/15/20/30
Maximum number of load cell intervals (nLC)		3000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		15000
Combined error	%FS	± 0.02
Minimum dead load	%FS	0
Safe overload	%FS	120
Ultimate overload	%FS	150
Zero balance	%FS	± 2.0
Excitation, recommended voltage	V	5 ~ 12 (DC)
Excitation maximum	V	18 (DC)
Input resistance	Ω	406 ± 6
Output resistance	Ω	350 ± 3
Insulation resistance	MΩ	≥ 5000 (50VDC)
Compensated temperature	°C	-10 ~ +40
Operating temperature	°C	-35 ~ +65
Storage temperature	°C	-40 ~ +70
Element material		Aluminium
Recommended torque on fixation	N.m	M8: 25
Ingress protection (according to EN 60529)		IP65

DIMENSIONS IN MM



WIRING



- Shielded, 4 conductor cable
- Cable diameter: Φ3.8mm
- Standard cable length: 0.5m
- Shield is not connected to element
- Cable jacket in PVC

FEATURES

- Aluminium-Alloy IP65 single point load cell
- Colourless anodized
- Suitable for single or double load cell structured platform scales
- Recommended platform size: 200 x 200 mm



AVAILABLE MODELS

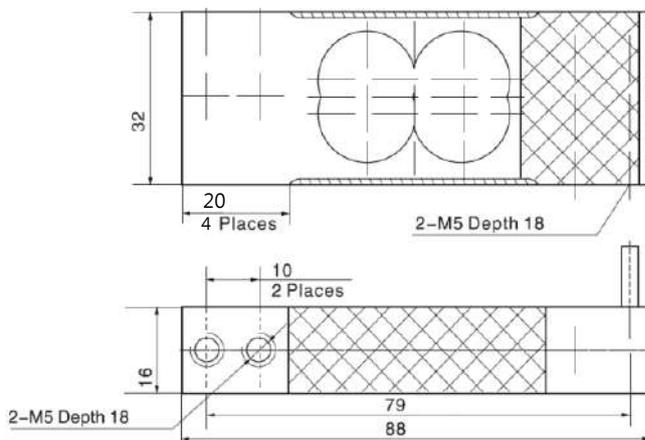
Capacity	Accuracy	Full article description
2 kg	C3D	L6J-C3D-2kg-0.45B
3 kg	C3D	L6J-C3D-3kg-0.45B
5 kg	C3D	L6J-C3D-5kg-0.45B
8 kg	C3D	L6J-C3D-8kg-0.45B
15 kg	C3D	L6J-C3D-15kg-0.45B
20 kg	C3D	L6J-C3D-20kg-0.45B



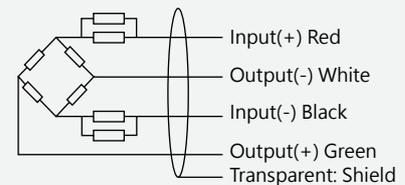
SPECIFICATION

Accuracy class		C3D
Output sensitivity (=FS)	mV/V	1.5 ± 0.2
Maximum capacity (E _{max})	kg	2/3/5/8/10/15/20
Maximum number of load cell intervals (nLC)		2500
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		5000
Combined error	%FS	± 0.0280
Minimum dead load	%FS	0
Safe overload	%FS	150
Ultimate overload	%FS	300
Zero balance	%FS	± 2.0
Excitation, recommended voltage	V	5 ~ 12 (DC)
Excitation maximum	V	18 (DC)
Input resistance	Ω	406 ± 6
Output resistance	Ω	350 ± 3
Insulation resistance	MΩ	≥ 5000 (50VDC)
Compensated temperature	°C	-10 ~ +40
Operating temperature	°C	-35 ~ +65
Storage temperature	°C	-40 ~ +70
Element material		Aluminium
Recommended torque on fixation	N.m	M5: 7
Ingress protection (according to EN 60529)		IP65

DIMENSIONS IN MM



WIRING



- Shielded, 4 conductor cable
- Cable Diameter: Φ3mm
- Standard cable length: 0.45m
- Shield is not connected to element
- Cable jacket is PVC

L6J1

FEATURES

- Aluminium-Alloy IP65 single point load cell
- Colourless anodized
- Suitable for counting scales, balances, pricing scales, etc.
- Recommended platform size: 200 x 200 mm

AVAILABLE MODELS

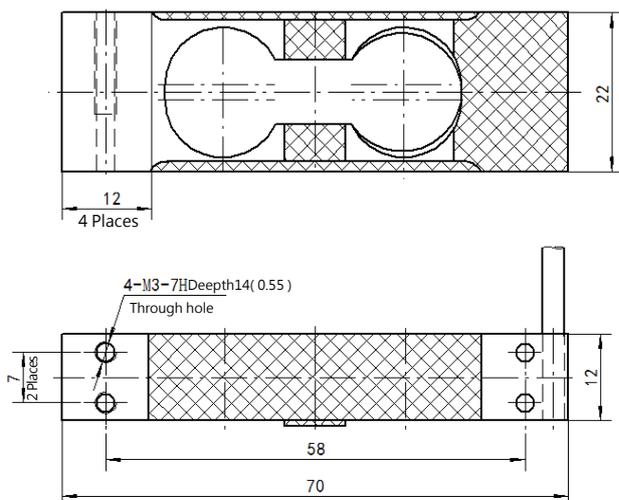
Capacity	Accuracy	Full article description
0.3 kg	C3D	L6J1-C3D-0.3kg-0.45B
0.4 kg	C3D	L6J1-C3D-0.4kg-0.45B
0.5 kg	C3D	L6J1-C3D-0.5kg-0.45B
0.6 kg	C3D	L6J1-C3D-0.6kg-0.45B
1 kg	C3D	L6J1-C3D-1kg-0.45B
3 kg	C3D	L6J1-C3D-3kg-0.45B



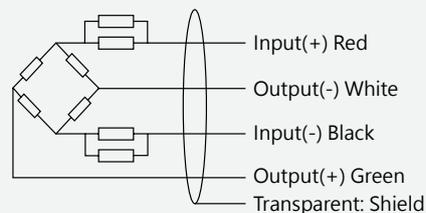
SPECIFICATION

Accuracy class		C3D
Output sensitivity (=FS)	mV/V	1.0 ± 0.1
Maximum capacity (E _{max})	kg	0.3/0.4/0.5/0.6/1/3
Maximum number of load cell intervals (nLC)		2500
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$		5000
Combined error	%FS	± 0.0280
Minimum dead load	%FS	0
Safe overload	%FS	120
Ultimate overload	%FS	150
Zero balance	%FS	± 2.0
Excitation, recommended voltage	V	5 ~ 12 (DC)
Excitation maximum	V	18 (DC)
Input resistance	Ω	406 ± 6
Output resistance	Ω	350 ± 3
Insulation resistance	MΩ	≥ 5000 (50VDC)
Compensated temperature	°C	-10 ~ +40
Operating temperature	°C	-35 ~ +65
Storage temperature	°C	-40 ~ +70
Element material		Aluminium
Recommended torque on fixation	N.m	M3: 1.5
Ingress protection (according to EN 60529)		IP65

DIMENSIONS IN MM



WIRING



- Shielded, 4 conductor cable.
- Cable Diameter: Φ3mm
- Standard cable length: 0.45m
- Shield is not connected to element.
- Cable jacket is PVC

FEATURES

- Aluminum, parallel beam.
- Surface anodized, anti-corrosion.
- Ingress protection (according to EN 60529): IP65
- Suitable for electronic pricing scales, electronic platform scales and other electronic weighing devices.



AVAILABLE MODELS

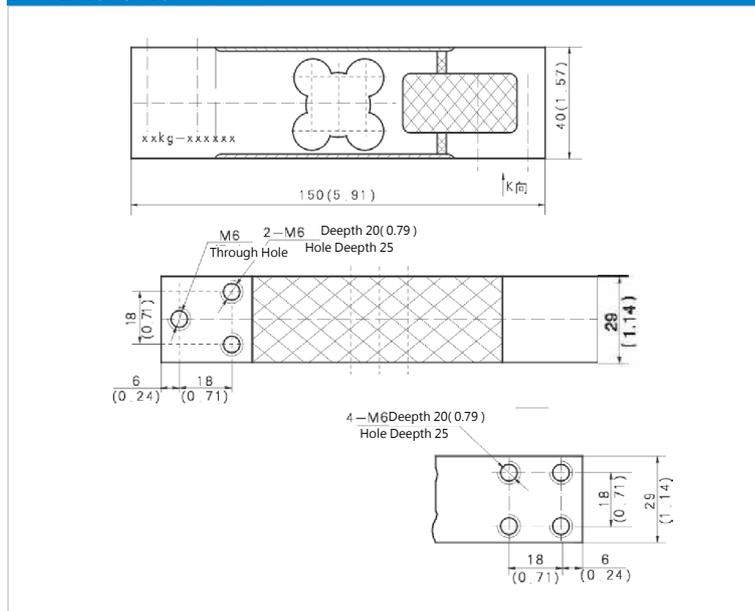
Capacity	Accuracy	Full article description
5kg-200kg	C3	L6L-C3-xxkg-1B



SPECIFICATION

Maximum capacity (E _{max})	kg	5/8/10/15/20/30/50/80/100/150/200
Output sensitivity (=FS)	mV/V	2.0±0.2
Accuracy class		C3
Combined error	%FS	±0.02
Creep	%FS/30min	±0.02
Temperature effect on sensitivity	%FS/10°C	±0.0175
Temperature effect on zero	%FS/10°C	±0.02
Zero balance	%FS	±2
Compensated temperature	°C	-10~ +40
Operating temperature	°C	-35~ +65
Input resistance	Ω	406±6
Output resistance	Ω	350±3
Insulation resistance	MΩ	≥ 5000 (50VDC)
Excitation, recommended voltage	V	5~12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	120
Ultimate overload	%FS	150
Ingress protection (according to EN 60529)		IP65
Recommended installation size	mm	400×400
Corner correction		0.02%load value/100mm

DIMENSIONS IN MM



WIRING

- Shielded, 4 conductor cable.
- Cable Diameter: Φ5.3mm
- Standard cable length: 1m
- Shield is not connected to element.
- Cable jacket is PVC

L6N

FEATURES

- Aluminium-alloy IP65 single point load cell.
- Colourless anodized
- Suitable for single or double load cell structured platform scales
- Maximum platform size: 400 x 400 mm



AVAILABLE MODELS

3kg-100kg Cx L6N-Cx-xxkg-3B6/3YB6



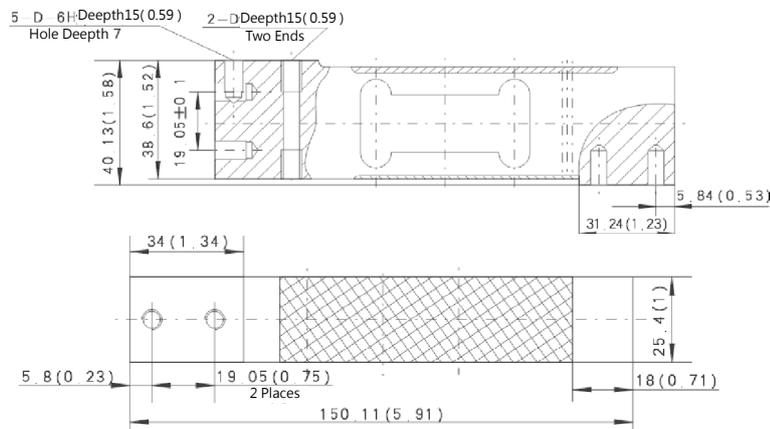
OIML test certificate no. D09-06.11 Revision 1
C of C no R60/2000-CN1-06.04

Certificate no. 11-055

SPECIFICATION

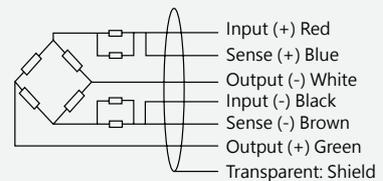
Maximum capacity (E _{max})	kg	3/5/8/10/15/20/30/40/50/75/100		
Output sensitivity (=FS)	mV/V	2.0±0.2		
Accuracy class		C3	C4	C5
Combined error	%FS	±0.02	±0.015	±0.01
Creep	%FS/30min	±0.0167	±0.0125	±0.01
Temperature effect on sensitivity	%FS/10°C	±0.0175	±0.0131	±0.01
Temperature effect on zero	%FS/10°C	±0.02	±0.012	±0.009
Zero balance	%FS	±2		
Compensated temperature	°C	-10~40		
Operating temperature	°C	-35~+65		
Input resistance	Ω	406±6		
Output resistance	Ω	350±3		
Insulation resistance	MΩ	≥ 5000 (50VDC)		
Excitation, recommended voltage	V	5~12 (DC)		
Excitation maximum	V	18 (DC)		
Safe overload	%FS	120		
Ultimate overload	%FS	150		
Protection Class		IP65		
Cable SPECIFICATIONS	mm	φ4.8		
Cable Length	m	3		
Recommended installation size	mm	400×400		
Corner correction		0.02%load value/100mm		
Recommended torque on fixation	N.m	10		

DIMENSIONS IN MM



D	Metric	Imperial
	M6×1	1/4-20UNC-2B

WIRING



- Shielded, 6 conductor cable
- Cable Diameter: φ4.8mm
- Standard cable length: 3m
- Shield is not connected to element
- Cable jacket is PVC.

FEATURES

- Aluminium-Alloy IP65 single point load cell
- Colourless anodized
- Suitable for single or double load cell structured platform scales
- Maximum platform size: 400 x 400 mm



AVAILABLE MODELS

Capacity	Accuracy	Full article description
50 kg	C3/C4	L6Q-C3/C4-50kg-3B6
100 kg	C3/C4/C5	L6Q-C3/C4/C5-100kg-3B6
150 kg	C3/C4/C5	L6Q-C3/C4/C5-150kg-3B6
200 kg	C3/C4/C5	L6Q-C3/C4/C5-200kg-3B6
250 kg	C3/C4/C5	L6Q-C3/C4/C5-250kg-3B6



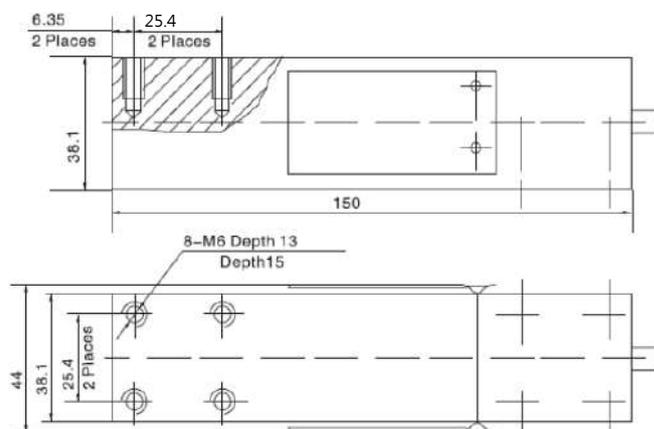
OIML test certificate no. D09-07.06 and TC7969
Revision 0 C of C no R60/2000-NL1-11.22

Certificate no. 11-104

SPECIFICATION

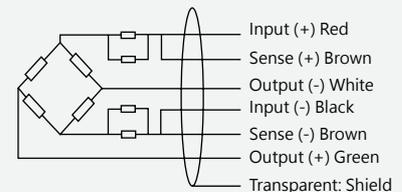
Accuracy class		OIML R60 C3	OIML R60 C4	OIML R60 C5
Output sensitivity (=FS)	mV/V	2.0 ± 0.2		
Maximum capacity (E _{max})	kg	50/100/150/200/250	100/150/200/250	
Maximum number of load cell intervals (nLC)		3000	4000	5000
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$		10000	15000	20000
Combined error	%FS	± 0.02	± 0.015	± 0.01
Minimum dead load	%FS	0		
Safe overload	%FS	120		
Ultimate overload	%FS	150		
Zero balance	%FS	± 2.0		
Excitation, recommended voltage	V	5 ~ 12 (DC)		
Excitation maximum	V	18 (DC)		
Input resistance	Ω	406 ± 6		
Output resistance	Ω	350 ± 3		
Insulation resistance	MΩ	≥ 5000 (50VDC)		
Compensated temperature	°C	-10 ~ +40		
Operating temperature	°C	-35 ~ +65		
Storage temperature	°C	-40 ~ +70		
Element material		Aluminium		
Recommended torque on fixation	N.m	M6: 10		
Ingress protection (according to EN 60529)		IP65		

DIMENSIONS IN MM



M	Metric	Imperial
	M6x1	1/4-20UNC-2B

WIRING



- Shielded, 6 conductor cable
- Cable diameter: Φ4.8mm
- Standard cable length: 3m
- Shield is not connected to element
- Cable jacket in PVC

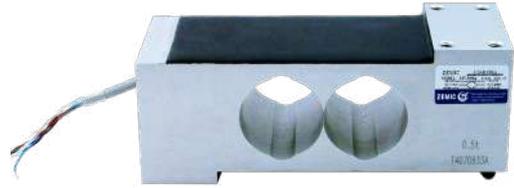
L6T

FEATURES

- Aluminium-Alloy IP65 single point load cell
- Colourless anodized
- Suitable for single or double load cell structured platform scales
- Maximum platform size: 600 x 600 mm

AVAILABLE MODELS

Capacity	Accuracy	Full article description
50 kg	C3/C4	L6T-C3/C4-50kg-3B6
75 kg	C3/C4	L6T-C3/C4-75kg-3B6
100 kg	C3/C4	L6T-C3/C4-100kg-3B6
150 kg	C3/C4	L6T-C3/C4-150kg-3B6
200 kg	C3/C4	L6T-C3/C4-200kg-3B6
250 kg	C3/C4	L6T-C3/C4-250kg-3B6
300kg	C3	L6T-C3-300kg-3B6
500kg	C3	L6T-C3-500kg-3B6
635kg	C3	L6T-C3-635kg-3B6
1000kg	C3	L6T-C3-1000kg-3B6



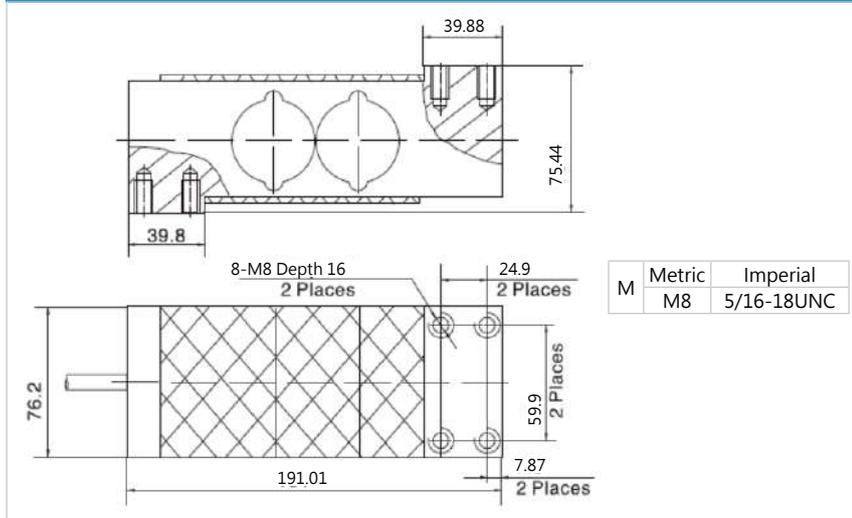
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C of C no R60/2000-DE1-10.11

Certificate no. 12-006

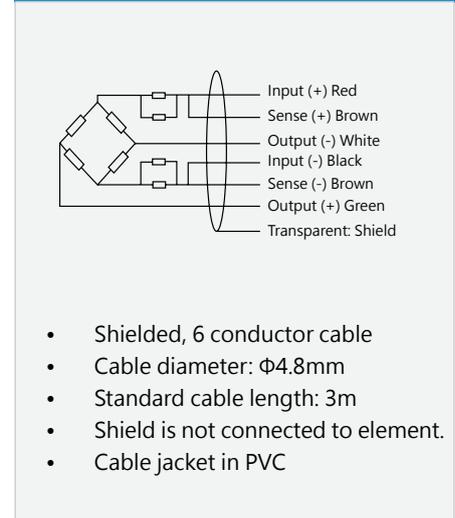
SPECIFICATION

Accuracy class		OIML R60 C3		OIML R60 C4
Output sensitivity (=FS)	mV/V	2.0 ± 0.2		
Maximum capacity (E _{max})	kg	50/75/100/150/200/250	300/500/635/1000	50/75/100/150/200/250
Maximum number of load cell intervals (nLC)		3000		4000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		6500	15000	6500
Combined error	%FS	± 0.02		± 0.0150
Minimum dead load	%FS	0		
Safe overload	%FS	120		
Ultimate overload	%FS	150		
Zero balance	%FS	± 2.0		
Excitation, recommended voltage	V	5 ~ 12 (DC)		
Excitation maximum	V	18 (DC)		
Input resistance	Ω	406 ± 6		
Output resistance	Ω	350 ± 3		
Insulation resistance	MΩ	≥ 5000 (50VDC)		
Compensated temperature	°C	-10 ~ +40		
Operating temperature	°C	-35 ~ +65		
Storage temperature	°C	-40 ~ +70		
Element material		Aluminium		
Recommended torque on fixation	N.m	M8: 25		
Ingress protection (according to EN 60529)		IP65		

DIMENSIONS IN MM



WIRING

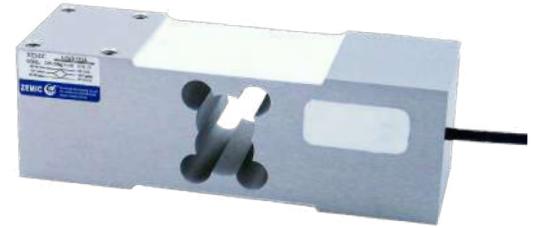


FEATURES

- Aluminium-alloy IP65 single point load cell.
- Colourless anodized
- Suitable for single and double load cell structured platform scales.
- Maximum platform size: for 50kg-200kg: 600 x 600 mm for 250kg-635kg: 600 x 800 mm

AVAILABLE MODELS

Capacity	Accuracy	Full article description
50 kg	C3	L6W-C3-50kg-3G6
70 kg	C3	L6W-C3-70kg-3G6
100 kg	C3	L6W-C3-100kg-3G6
150 kg	C3	L6W-C3-150kg-3G6
200 kg	C3	L6W-C3-200kg-3G6
250 kg	C3	L6W-C3-250kg-3G6
300kg	C3	L6W-C3-300kg-3G6
500kg	C3	L6W-C3-500kg-3G6
635kg	C3	L6W-C3-635kg-3G6



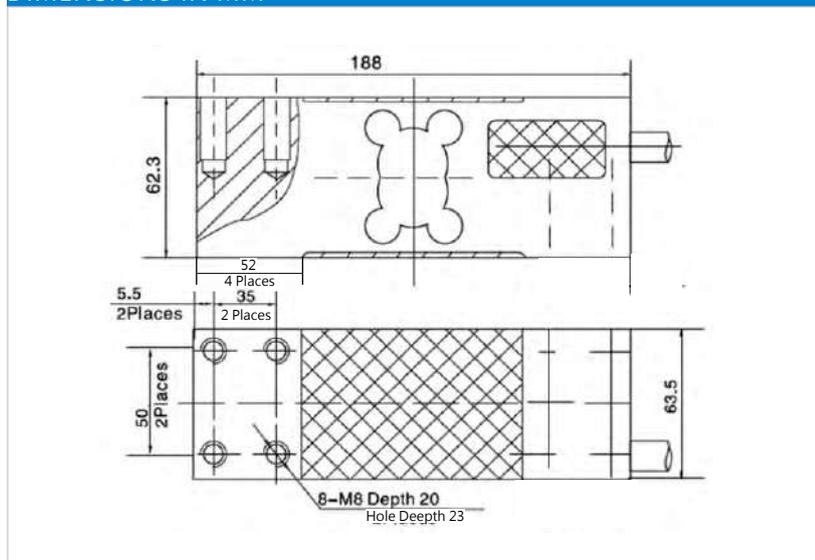
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C of C no R60/2000-CN1-06.03

Certificate no. 12-006

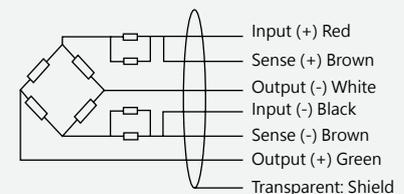
SPECIFICATION

		OIML R60 C3	
Accuracy class		OIML R60 C3	
Output sensitivity (=FS)	mV/V	2.0 ± 0.2	
Maximum capacity (E _{max})	kg	50/70/100/150/ 200/ 250/300	500/635
Maximum number of load cell intervals (nLC)		3000	
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$		7000	10000
Combined error	%FS	± 0.02	
Safe overload	%FS	120	
Ultimate overload	%FS	150	
Zero balance	%FS	± 2.0	
Excitation, recommended voltage	V	5 ~ 12 (DC)	
Excitation maximum	V	18 (DC)	
Input resistance	Ω	406 ± 6	
Output resistance	Ω	350 ± 3	
Insulation resistance	MΩ	≥ 5000 (50VDC)	
Compensated temperature	°C	-10 ~ +40	
Operating temperature	°C	-35 ~ +65	
Storage temperature	°C	-40 ~ +70	
Element material		Aluminium	
Recommended torque on fixation	N.m	M8: 25	
Ingress protection (acc. to EN 60529)		IP65	

DIMENSIONS IN MM



WIRING



- Shielded, 6 conductor cable
- Cable diameter: Φ4.7mm
- Standard cable length: 3m
- Shield connected to element
- Cable jacket in PU

B8D

FEATURES

- Stainless steel IP67 shear beam load cell (250kg is bending beam load cells)
- Suitable for floor scales, automobile test facilities, hopper scales and other weighing devices.
- Current calibrated (sc-option)



AVAILABLE MODELS

xxkg	C3/C5/A5S/A5M/B10M	B8D-xx-xxkg-6B
txt	C3/C5/A5S/A5M/B10M	B8D-xx-txt-6B
xxlb	A5S/A5M/B10M	B8D-xx-xx-6YB
xxklb	A5S/A5M/B10M	B8D-xx-xxK-6YB
250lb	C3	B8D-C3-250-6YB
15klb	C3	B8D-C3-15K-6YB
20klb	C3	B8D-C3-20K-6YB
200kg-500kg approved by OIML C5. 500kg-5.0t approved by OIML C3. 200KG-5.0t (500lb-10Klb) approved by NTEP A5S/A5M/B10M.		



test certificate no. TC8010 Revision 0 and D09-05.19
C of C no R60/2000-NL1-11.28 and R60/2000-CN1-06.05

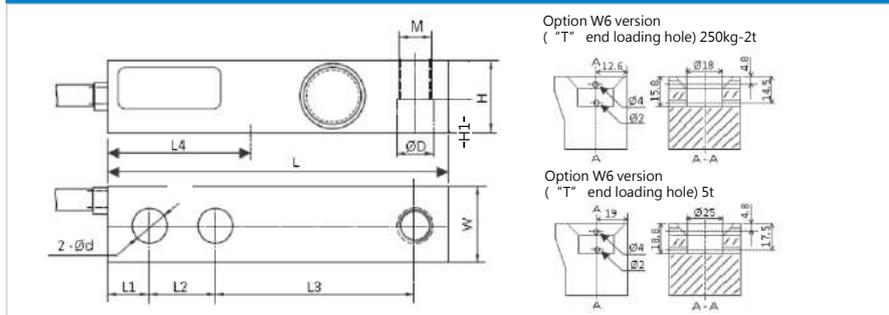


Certificate no. 12-022

SPECIFICATION

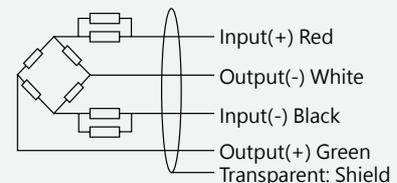
Maximum capacity (E _{max})	t	0.5/1/2/5				
	klb	0.25/0.5/0.75/1/1.5/2/2.5/2.5KLE/3/4/5/5KSE/7.5/10/15/20				
Accuracy class		C3	C5	A5S	B10M	A5M
Approvals		OIML R60 C3	OIML R60 C5			
Maximum number of load cell intervals (n _{LC})		3000	5000	III 5000 Single	IIIL10000Multiple	IIIL5000Multiple
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	18000	15000	10000	15000
Combined error	%FS	±0.02	±0.01	±0.018	±0.050	±0.026
Creep	%FS/30min	±0.016	±0.012	±0.012	±0.040	±0.017
Temperature effect on sensitivity	%FS/10°C	±0.011	±0.007	±0.009	±0.040	±0.013
Temperature effect on zero	%FS/10°C	±0.015	±0.014	±0.01	±0.020	±0.014
Output sensitivity (=FS)	mV/V	3.0±0.008				
Input resistance	Ω	350±3.5				
Output resistance	Ω	350±3.5				
Insulation resistance	MΩ	≥ 5000 (50VDC)				
Zero balance	%FS	±1.0				
Compensated temperature	°C	-10~+40				
Operating temperature	°C	-35~+70				
Excitation, recommended voltage	V	5~12 (DC)				
Excitation maximum	V	18 (DC)				
Safe overload	%FS	150				
Ultimate overload	%FS	300				
Recommended torque on fixation	N.m	M12: 75		M20:450		
Ingress protection (according to EN 60529)		IP67				
ATEX classification (optional)	Operating temperature	°C		-20~+40		
		IIIG Ex ia IIC T4	IIID Ex iaD20 T73°C	IIIG Ex nL IIC T4		

DIMENSIONS IN MM



Capacity	Dimension	L	L1	L2	L3	d	H	W	D	H1	M
0.25klb, 0.5klb, 1.5klb, 2klb	0.25klb, 0.5klb, 1.5klb, 2klb	130 (5.12)	15.7 (0.62)	25.4 (1.0)	76.2 (3.0)	13.46 (0.53)	28.4 (1.12)	30.7 (1.20)	13.4 (0.53)	14.22 (0.56)	M12-6H 1/2-20UNF-2B
	0.5t, 1t, 2t, 2.5klb, 3klb, 4klb, 5kSE	130 (5.12)	15.7 (0.62)	25.4 (1.0)	76.2 (3.0)	13.46 (0.53)	31.32 (1.23)	31.32 (1.23)	13.4 (0.53)	15.75 (0.62)	M12-6H 1/2-20UNF-2B
3t, 5t, 2.5kLE, 5klb, 7.5klb, 10klb, 15klb	3t, 5t, 2.5kLE, 5klb, 7.5klb, 10klb, 15klb	171 (6.73)	19 (0.75)	38.1 (1.5)	95.2 (3.75)	20.65 (0.81)	36.8 (1.45)	36.8 (1.45)	20.65 (0.81)	19.05 (0.75)	M20×2.5-6H 3/4-16UNF-2B
	20klb	222.25 (8.75)	25.4 (1.0)	50.8 (2.0)	120.7 (4.75)	26.9 (1.06)	49.5 (1.95)	49.5 (1.95)	27.56 (1.08)	24.75 (0.97)	M24×2-6H 1-12UNF-2B

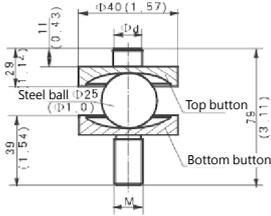
WIRING



- Shielded, 4 conductor cable
- Cable diameter: Φ5mm
- Standard cable length: 6m
- Shield in not connected to the element

BY-8-104

Stainless steel mounting kits, assembled with: BM8D, B8D.



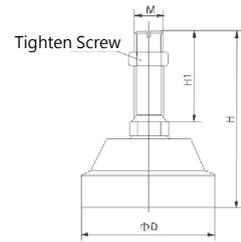
SHORT DESCRIPTION

Easy installation, self-centralization with steel ball, good self-aligning ability.

Dimension Capacity	d	M	Capacity	Part number
0.5t-2t	12	M12×1.75	0.5t-2t	BY-8-104-0.5/2t
250lb-5KSE	(0.47)	1/2-20UNF	2.5t-5t	BY-8-104-2.5/5t
2.5t-5t	20	M20×2.5	250lb-5KSE	BY-8-104-250lb/5KSE
5klb-10klb	(0.79)	3/4-16UNF	5klb-10klb	BY-8-104-5/10k

BJ-8-202

Stainless steel mounting kits, assembled with: BM8D, B8D.



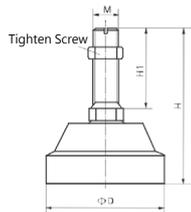
SHORT DESCRIPTION

Easy installation, height adjustable, anti-corrosion, self-centralization with steel ball, good anti-side loading ability.

Capacity	Part number	Dimension Capacity	ΦD	H	H1	M
0.5t-2t	BJ-8-202-0.5/2t	0.5t-2t	60	92	50	M12×1.75
250lb-5KSE	BJ-8-202-250lb/5KSE	250lb-5KSE	(2.36)	(3.62)	(1.97)	1/2-20UNF
2.5t-5t	BJ-8-202-2.5/5t	2.5t-5t	80	105	50	M20×2.5
5klb-10klb	BJ-8-202-5/10K	5klb-10klb	(3.15)	(4.13)	(1.97)	3/4-16UNF

BJ-8-205

Stainless steel mounting kits, assembled with: BM8D, B8D.



SHORT DESCRIPTION

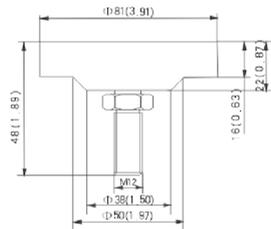
Easy installation, height adjustable, anti-corrosion, self-centralization with steel ball, good anti-side loading ability.

Capacity	Part number
0.5t-2t	BJ-8-205-0.5/2t
250lb-5KSE	BJ-8-205-250lb/5KSE

Dimension Capacity	D	H	H1	M
0.5t-2t	80 (3.15)	105 (4.13)	50 (1.97)	M12×1.75
250lb-5KSE				1/2-20UNF

BJ-8-215

Stainless steel mounting kits, assembled with: BM8D, B8D.



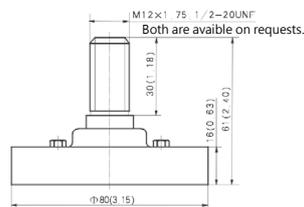
SHORT DESCRIPTION

Easy installation, height adjustable, self-centralization, good anti-side loading ability.

Capacity	Part number
0.5t-2t	BJ-8-215-0.5/2t

BJ-8-219

Stainless steel mounting kits, assembled with: BM8D, B8D.



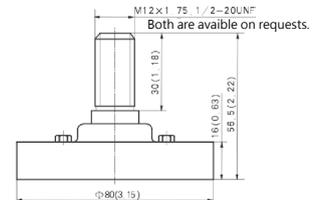
SHORT DESCRIPTION

Easy installation, self-centralization, good anti-side loading ability.

Capacity	Part number
0.5t-2t	BJ-8-219-0.5/2t
250lb-5KSE	BJ-8-219-250lb/5KSE

BJ-8-220

Stainless steel mounting kits, assembled with: BM8D, B8D.



SHORT DESCRIPTION

Easy installation, self-centralization, good anti-side loading ability.

Capacity	Part number
0.5t-2t	BJ-8-220-0.5/2t
250lb-5KSE	BJ-8-220-250lb/5KSE

FEATURES

- Stainless steel IP67 shear beam load cell
- Low profile
- Suitable for hopper, floor and other electronic scale



AVAILABLE MODELS

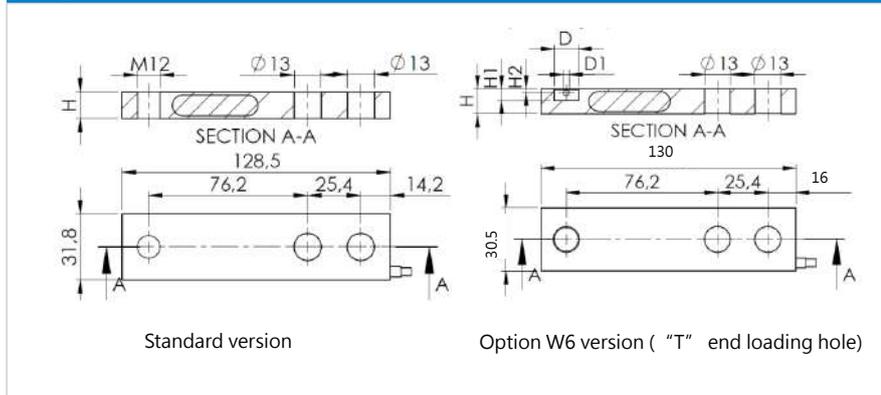
Capacity	Accuracy	Full article description
200 kg	C3 Excluded from OIML	B8Q-C3-200kg-3B
500kg	C3	B8Q-C3-500kg-3B
1000kg	C3	B8Q-C3-1000kg-3B
2000kg	C3	B8Q-C3-2000kg-3B



SPECIFICATION

Accuracy class		C3	OIML R60 C3
Output sensitivity (=FS)	mV/V	2.0 ± 0.002	
Maximum capacity (E _{max})	kg	200	500, 1000, 2000
Maximum number of load cell intervals (nLC)		3000	
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	15000
Combined error	%FS	± 0.0230	
Minimum dead load	%FS	0	
Safe overload	%FS	150	
Ultimate overload	%FS	300	
Zero balance	%FS	± 1.0	
Excitation, recommended voltage	V	5 ~ 12 (DC)	
Excitation maximum	V	18 (DC)	
Input resistance	Ω	1000 ± 5	1106 ± 5
Output resistance	Ω	1000 ± 3	
Insulation resistance	MΩ	≥ 5000 (50VDC)	
Compensated temperature	°C	-10 ~ +40	
Operating temperature	°C	-35 ~ +65	
Storage temperature	°C	-40 ~ +70	
Element material		Stainless steel	
Recommended torque on fixation	N.m	M12: 75	
Ingress protection (according to EN 60529)		IP67	

DIMENSIONS IN MM



Capacity	H	H1	H2	ΦD	ΦD1
200 kg	12.7 (0.5)	6 (0.24)	2 (0.08)	12.1 (0.48)	3 (0.12)
500 kg	15.9 (0.63)	9.5 (0.37)	2.8 (0.11)	18.1 (0.71)	4 (0.16)
1000 kg	19.1 (0.75)	9.5 (0.37)	2.8 (0.11)	18.1 (0.71)	4 (0.16)
2000kg	25.4 (1)	9.5 (0.37)	2.8 (0.11)	18.1 (0.71)	4 (0.16)

WIRING

- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm.
- Standard cable length: 3m.
- Shield is not connected to element.

FEATURES

- Nickel plated alloy steel IP67 shear beam load cell
- Low profile
- Suitable for hopper, floor and other electronic scales
- High accuracy



AVAILABLE MODELS

Capacity	Accuracy	Full article description
200kg	C3	H8Q-C3-200kg-3B
500kg	C3	H8Q-C3-500kg-3B
1000kg	C3	H8Q-C3-1000kg-3B
2000kg	C3 Excluded from OIML	H8Q-C3-2000kg-3B

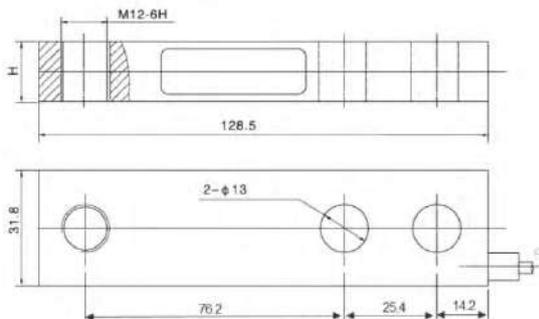


OIML test certificate no. TC8382 Revision 0
C of C no R60/2000-NL1-13.21 Revision 1

SPECIFICATION

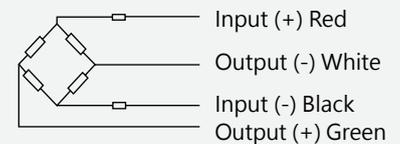
		OIML R60 C3	C3
Accuracy class			
Output sensitivity (=FS)	mV/V	2.0 ± 0.002	
Maximum capacity (E _{max})	kg	200/500/1000	2000
Maximum number of load cell intervals (nLC)		3000	
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		15000	10000
Combined error	%FS	± 0.0230	
Minimum dead load	%FS	0	
Safe overload	%FS	150	
Ultimate overload	%FS	300	
Zero balance	%FS	± 1.0	
Excitation, recommended voltage	V	5 ~ 12 (DC)	
Excitation maximum	V	18 (DC)	
Input resistance	Ω	1000 ± 5 (200kg) / 1106 ± 5	
Output resistance	Ω	1000 ± 5	
Insulation resistance	MΩ	≥ 5000 (50VDC)	
Compensated temperature	°C	-10 ~ +40	
Operating temperature	°C	-35 ~ +65	
Storage temperature	°C	-40 ~ +70	
Element material		Nickel plated alloy steel	
Recommended torque on fixation	N.m	M12: 75	
Ingress protection (according to EN 60529)		IP67	

DIMENSIONS IN MM



Capacity	H
200 kg	12.7(0.5)
500 kg	15.9(0.63)
1000 kg	19.1(0.75)
2000kg	25.4(1)

WIRING



- Shielded, 4 conductor cable
- Cable diameter: Φ5mm
- Standard cable length: 3m
- Shield is not connected to element

BM8D

FEATURES

- Stainless steel shear beam load cell (150kg and 300 kg are bending beam load cells)
- Hermetically sealed IP68
- Suitable for floor scales, vehicle-test line, hopper scales and other electronic weighing devices
- High accuracy
- Wide range of capacities



AVAILABLE MODELS

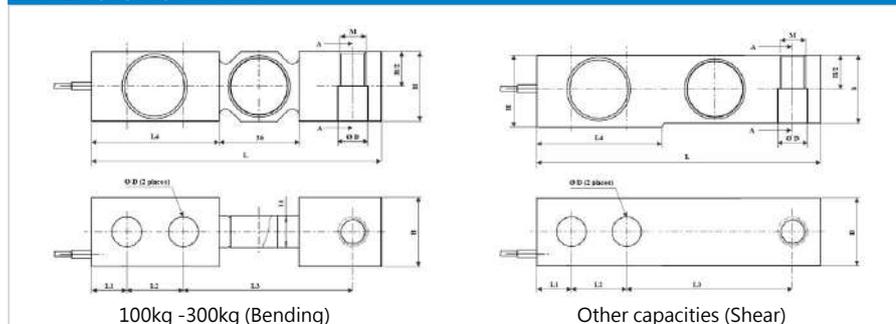
xxkg	C3/C5/C6/A5M/B10S/B10M	BM8D-xx-xxkg-6B
xxt	C3/C5/C6/A5M/B10S/B10M	BM8D-xx-xxt-6B
xxlb	A5M/B10S/B10M	BM8D-xx-xx-6YB
xxklb	A5M/B10S/B10M	BM8D-xx-xxK-6YB
50kg-300kg approved by OIML C3; 3.0t-15t approved by OIML C5.		
500kg-2.5t approved by OIML C6.		
500KG-10t (1klb-20Klb) S1 type approved by NTEP A5S/A5M/B10S/B10M.		



SPECIFICATION

		C3	C5	C6	B10S	A5M	B10M
Accuracy class							
Approvals		OIMLR60 C3	OIMLR60 C5	OIMLR60 C6			
Output sensitivity (=FS)	mV/V	2.0 ± 0.004			3.0 ± 0.008		
Maximum capacity (E _{max})	t	0.1/0.15/0.2/0.25/0.3/0.5/1/1.5/2/2.5/3/5/7.5/10					
	klb	1/1.5/2/2.5KLE/3/4/5/5KSE/7.5/10/15/20					
Maximum number of load cell intervals (nLC)		3000	5000	6000	IIIL10000 Single	IIIS5000 Multiple	IIIL10000 Multiple
Ratio of minimum LC verification interval $Y=E_{max} / V_{min}$		10000	18000	20000	10000	15000	10000
Combined error	%FS	± 0.020	± 0.010	± 0.009	± 0.035	± 0.026	± 0.050
Minimum dead load	%FS	0					
Safe overload	%FS	150					
Ultimate overload	%FS	300					
Zero balance	%FS	± 1.0					
Excitation, recommended voltage	V	5 ~ 12 (DC)					
Excitation maximum	V	18 (DC)					
Input resistance	Ω	350 ± 3.5					
Output resistance	Ω	350 ± 3.5					
Insulation resistance	MΩ	≥ 5000 (50VDC)					
Compensated temperature	°C	-10 ~ +40					
Operating temperature	°C	-35 ~ +65					
Storage temperature	°C	-40 ~ +70					
Element material		Stainless steel					
Recommended torque on fixation	N.m	M12: 75		M20:450	M24:750		
Ingress protection (according to EN 60529)		IP68					
ATEX classification (optional)		II1G Ex ia IIC T4		II1D Ex iaD 20 T73°C	II3G Ex nL IIC T4		

DIMENSIONS IN MM



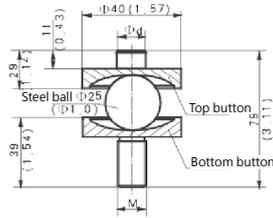
Dimension	L	L1	L2	L3	L4	B	H	h	ΦD	ΦD1	Φd1	Φd2	M
Capacity													
0.15t-0.3t						31.3 (1.23)		-					
0.5t	130 (5.12)	15.7 (0.62)	25.4 (1.0)	76.2 (3.0)	57.1 (2.25)	31.1 (1.22)	31.3 (1.23)	24.8 (0.98)	13.5 (0.53)	18 (0.71)	4 (0.16)	2 (0.08)	M12
1t								26.0 (1.024)					
1.5t - 2t						31.3 (1.23)		28.0					
2.5t- 5t	171 (6.75)	19 (0.75)	38.1 (1.5)	95.2 (3.75)	76.2 (1.024)		36.8 (1.45)	34.8 (1.37)	20.5 (0.81)	25 (0.98)	4 (0.16)	2 (0.08)	M20
7.5t~10t	222 (8.75)	25.4 (1.0)	50.8 (2.0)	120.7 (4.75)	101.6 (1.024)	49.5 (1.95)	49.5 (1.95)	47.5 (1.87)	26.9 (1.06)	-	-	-	M24

WIRING

- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm.
- Standard cable length: 5m.
- Shield is not connected to element.

BY-8-104

Stainless steel mounting kits, assembled with: BM8D, B8D.



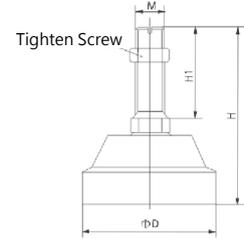
SHORT DESCRIPTION

Easy installation, self-centralization with steel ball, good self-aligning ability.

Capacity	Part number	Dimension Capacity	d	M
0.5t-2t	BY-8-104-0.5/2t	0.5t-2t	12 (0.47)	M12×1.75
2.5t-5t	BY-8-104-2.5/5t	250lb-5KSE	20 (0.79)	1/2-20UNF
250lb-5KSE	BY-8-104-250lb/5KSE	2.5t-5t		M20×2.5
5klb-10klb	BY-8-104-5/10k	5klb-10klb		3/4-16UNF

BJ-8-202

Stainless steel mounting kits, assembled with: BM8D, B8D.



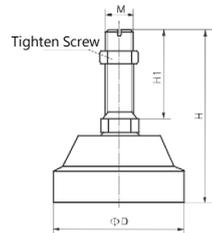
SHORT DESCRIPTION

Easy installation, height adjustable, anti-corrosion, self-centralization with steel ball, good anti-side loading ability.

Capacity	Part number	Dimension Capacity	ϕD	H	H1	M
0.5t-2t	BJ-8-202-0.5/2t	0.5t-2t	60 (2.36)	92 (3.62)	50 (1.97)	M12×1.75
2.5t-5t	BJ-8-202-2.5/5t	250lb-5KSE				1/2-20UNF
250lb-5KSE	BJ-8-202-250lb/5KSE	2.5t-5t				M20×2.5
5klb-10klb	BJ-8-202-5/10k	5K-10klb	80 (3.15)	105 (4.13)	50 (1.97)	3/4-16UNF

BJ-8-205

Stainless steel mounting kits, assembled with: BM8D, B8D.



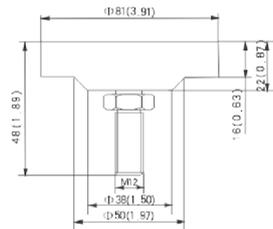
SHORT DESCRIPTION

Easy installation, height adjustable, anti-corrosion, self-centralization with steel ball, good anti-side loading ability.

Capacity	Part number	Dimension Capacity	D	H	H1	M
0.25t-2t	BJ-8-205-0.5/2t	0.25t-2t	80 (3.15)	105 (4.13)	50 (1.97)	M12×1.75
250lb-5KSE	BJ-8-205-250lb/5KSE	250lb-5KSE				1/2-20UNF

BJ-8-215

Stainless steel mounting kits, assembled with: BM8D, B8D.



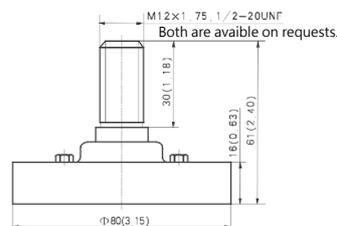
SHORT DESCRIPTION

Easy installation, height adjustable, self-centralization, good anti-side loading ability.

Capacity	Part number
0.5t-2t	BJ-8-215-0.5/2t

BJ-8-219

Stainless steel mounting kits, assembled with: BM8D, B8D.



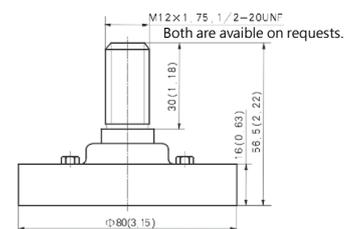
SHORT DESCRIPTION

Easy installation, self-centralization, good anti-side loading ability.

Capacity	Part number
0.5t-2t	BJ-8-219-0.5/2t
250lb-5KSE	BJ-8-219-250lb/5KSE

BJ-8-220

Stainless steel mounting kits, assembled with: BM8D, B8D.



SHORT DESCRIPTION

Easy installation, self-centralization, good anti-side loading ability.

Capacity	Part number
0.5t-2t	BJ-8-220-0.5/2t
250lb-5KSE	BJ-8-220-250lb/5KSE

BM8G

FEATURES

- Stainless steel IP68 shear beam load cell
- Hermetically sealed
- Robust and wide mounting surface
- Suitable for harsh environment
- Current calibrated (sc-option)



AVAILABLE MODELS

xxkg	C3/C4	BM8G-xx-xxkg-5B
xxt	C3/C4	BM8G-xx-xtt-5B
xxklb	C3	BM8G-C3-xxK-5B

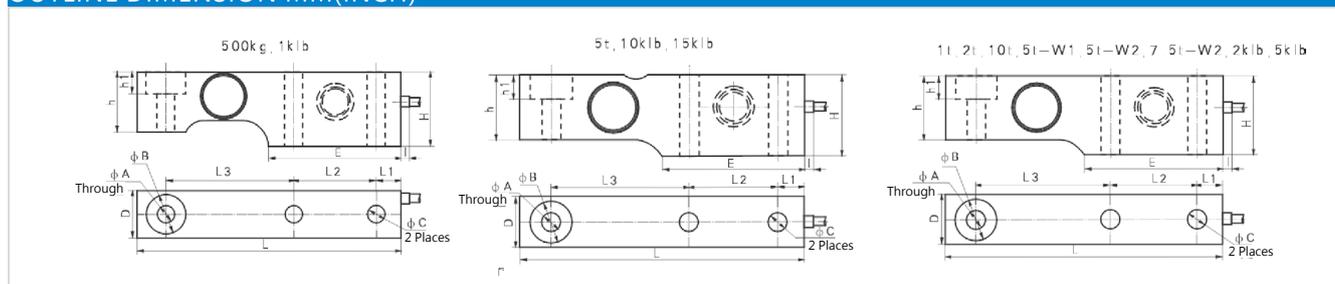
500kg-10t approved by OIML C3; 500kg-2t approved by OIML C4.



SPECIFICATION

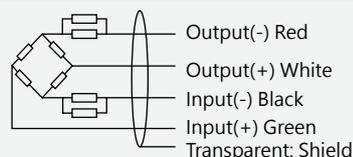
		OIML R60 C3	OIML R60 C4
Accuracy class			
Output sensitivity (=FS)	mV/V	2.0 ± 0.002	
Maximum capacity (E _{max})	t	0.5/1/2/5/7.5/10	
	lb	1K/2K/5K/10K/15K	
Maximum number of load cell intervals (nLC)		3000	4000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	15000
Combined error	%FS	± 0.0230	± 0.0175
Minimum dead load	%FS	0	
Safe overload	%FS	150	
Ultimate overload	%FS	300	
Zero balance	%FS	± 1.0	
Excitation, recommended voltage	V	5 ~ 15 (DC)	
Excitation maximum	V	18 (DC)	
Input resistance	Ω	350 ± 3.5	
Output resistance	Ω	350 ± 3.5	
Insulation resistance	MΩ	≥ 5000 (50VDC)	
Compensated temperature	°C	-10 ~ +40	
Operating temperature	°C	-35 ~ +65	
Storage temperature	°C	-40 ~ +70	
Element material		Stainless steel	
Recommended torque on fixation	N.m	M12: 100	M20:450 M24:750
Ingress protection (according to EN 60529)		IP68	

OUTLINE DIMENSION MM(INCH)



Capacity	Dimension (mm)	A	B	C	D	E	L	L1	L2	L3	H	h	h1	l
0.5t-2t (1klb-5klb)		17.48(0.69)	30.3(1.19)	13.9(0.55)	36.5(1.44)	101.6(4.00)	203.2(8.00)	19.05(0.75)	63.5(2.50)	98.43(3.88)	47.63(1.88)	36.5(1.44)	11.8(0.46)	17(0.67)
1t, 2t, 2klb, 5klb		/	/	/	/	/	/	/	/	/	/	/	11.9(0.47)	/
5t, 7t, 5t-W2 (10klb-15klb)		25.5(1.00)	41.4(1.63)	22.23(0.88)	47.36(1.86)	117.5(4.63)	234.95(9.25)	20.62(0.81)	66.7(2.63)	123.8(4.87)	69.85(2.75)	47.64(1.88)	15.75(0.62)	17(0.67)
5t-W1		25.5(1.00)	41.3(1.63)	22(0.87)	47.5(1.87)	111(4.37)	234.95(9.25)	20.62(0.81)	66.7(2.63)	123.8(4.87)	50(1.97)	47.6(1.87)	15.8(0.62)	17(0.67)
5t-W2		25.5(1.00)	41.4(1.63)	22.23(0.88)	47.37(1.86)	117.5(4.63)	234.95(9.25)	20.62(0.81)	66.7(2.63)	123.8(4.87)	69.85(2.75)	47.6(1.87)	15.75(0.62)	17(0.67)
10t		25.5(1.00)	41.4(1.63)	25(0.98)	55(2.17)	111(4.37)	234.95(9.25)	20.62(0.81)	66.7(2.63)	123.8(4.87)	69.85(2.75)	58.6(2.31)	15.75(0.62)	17(0.67)

WIRING



- Adopt shielded, 4 conductor cable: Φ5mm
- Standard cable length: 5m

BM8H/H8H

FEATURES

- Stainless steel IP68 shear beam load cell
- Hermetically sealed
- Suitable for hopper, platform and pallet scales
- High accuracy
- Current calibrated (sc-option)

AVAILABLE MODELS

xxkg	C3	H8H-C3-xxkg-xB
xxt	C3	H8H-C3-xtt-xB
500lb	C3	H8H-C3-500-xYB
xxklb	C3	H8H-C3-xxK-xYB
xxkg	C3/A5M/B10S/B10M	BM8H-xx-xxkg-xB
xxt	C3/A5M/B10S/B10M	BM8H-xx-xtt-xB
xxlb	A5M/B10S/B10M	BM8H-xx-xx-xB
xxKlb	A5M/B10S/B10M	BM8H-xx-xxK-xB
xxkg	C3/A5M/B10S/B10M	BM8H-xx-xxkg-xB-A1
xxt	C3/A5M/B10S/B10M	BM8H-xx-xtt-xB-A1
xxlb	A5M/B10S/B10M	BM8H-xx-xx-xB-A1
xxKlb	A5M/B10S/B10M	BM8H-xx-xxK-xB-A1

BM8H 500kg-5t approved by OIML C3.
1klb-10klb (500kg-5t) approved by NTEP A5M/B10S/B10M.
"A1" refers to currency output, resistance 1000Ω.

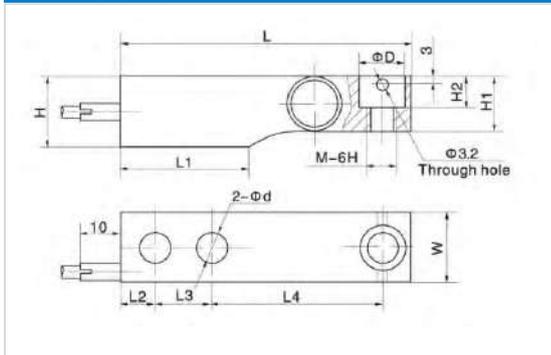


SPECIFICATION

Maximum capacity (E _{max})	t klb	0.25/0.5/1/2/2.5/3/5				
		0.5/1/2.5/4/5/10				
Accuracy class		B10S	C3	C4	A5M	B10M
Approvals			OIML R60 C3			
Maximum number of load cell intervals (nLC)	n _{max}	III10000 Single	3000	4000	III5000	III10000 Multiple
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$	v _{min}	E _{max} /10000	E _{max} /10000	E _{max} /14000	E _{max} /15000	E _{max} /10000
Combined error	%FS	≤ ±0.035	≤ ±0.020	≤ ±0.018	≤ ±0.026	≤ ±0.050
Creep	%FS/30min	≤ ±0.03	≤ ±0.016	≤ ±0.012	≤ ±0.017	≤ ±0.040
Temperature effect on sensitivity	%FS/10°C	≤ ±0.03	≤ ±0.011	≤ ±0.009	≤ ±0.013	≤ ±0.040
Temperature effect on zero	%FS/10°C	≤ ±0.03	≤ ±0.015	≤ ±0.010	≤ ±0.014	≤ ±0.020
Output sensitivity (=FS)	mV/V	2.0±0.002/2.0±0.004(H8H)				
Input resistance	Ω	1000±10		350±3.5		
Output resistance	Ω	1000±10		351±2.0		
Insulation resistance	MΩ	≥ 5000 (50VDC)				
Zero balance	%FS	≤ ±1.0				
Compensated temperature	°C	-10~+40				
Operating temperature	°C	-35~+70				
Excitation, recommended voltage	V	5~12 (DC)				
Excitation maximum	V	18 (DC)				
Safe overload	%FS	150				
Ultimate overload	%FS	300				
ATEX classification (optional)		IIIG Ex ia IIIC T4		IIID Ex iaD20 T73°C		IIIG Ex nL II C T4

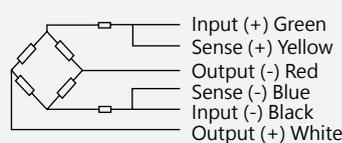
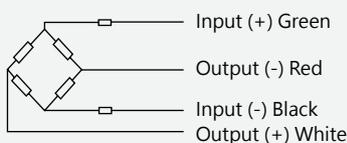
Note: accuracy for H8H is at C3, no OIML, NTEP, PTB, ATEXM, FM, Ex NEPSI approvals. Capacity of 2.5t/3t is not available, and input resistance is 350±3.5 while output resistance is 351±2.0.

DIMENSIONS IN MM



Capacity	250kg (500lb)	500kg (1klb)	1.0t(2klb) (2.5klb)	1.5t,2.0t (4klb,5klb)	2.5t,3t	5.0t (10klb)
Dimension						
L	130.0(5.12)	130.0(5.12)	130.0(5.12)	130.0(5.12)	172.0(6.77)	172.0(6.77)
L1	57(2.24)	57.1(2.25)	57.1(2.25)	57.1(2.25)	76.2(3.0)	76.2(3.0)
L2	15.5(0.62)	15.5(0.62)	15.5(0.62)	15.5(0.62)	19.1(0.75)	19.1(0.75)
L3	25.4(1.0)	25.4(1.0)	25.4(1.0)	25.4(1.0)	38.1(1.5)	38.1(1.5)
L4	76.2(3.0)	76.2(3.0)	76.2(3.0)	76.2(3.0)	95.3(3.75)	95.3(3.75)
H	31.8(1.24)	31.8(1.24)	31.8(1.24)	35.9(1.41)	44(1.72)	44(1.72)
H1	25.5(1.0)	26.0(1.02)	27.95(1.10)	31.95(1.26)	36(1.42)	40(1.57)
H2	14.2(0.55)	14.2(0.55)	14.2(0.55)	14.2(0.55)	20(0.78)	20(0.78)
W	31.8(1.24)	31.8(1.24)	31.8(1.24)	31.8(1.24)	38(1.48)	38(1.48)
D	20.5(0.81)	20.5(0.81)	20.5(0.81)	20.5(0.81)	30.2(1.19)	30.2(1.19)
d	13(0.51)	13(0.51)	13(0.51)	13(0.51)	20.5(0.81)	20.5(0.81)
M	M12 1/2-20UNF	M12 1/2-20UNF	M12 1/2-20UNF	M12 1/2-20UNF	M20	M20 3/4-20UNF

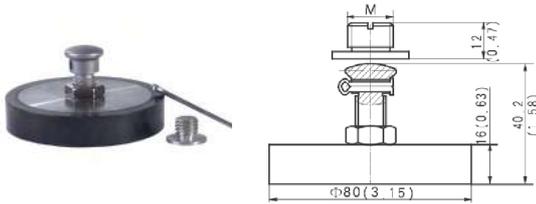
WIRING



- Shielded, 6 conductor cable and 4 conductor cable for all capacities.
- Cable diameter: Ø5mm.
- Standard cable length for 500kg - 1t: 3m and for 2t - 5t: 6m.
- Shield is not connected to element.

BJ-8-206

Stainless steel foot, assembled with: BM8H, H8H.



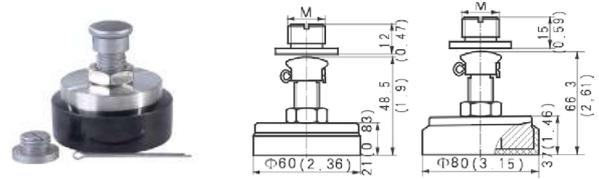
SHORT DESCRIPTION

Easy installation, self-centralization, anti-side loading and height adjustable.

Capacity	Part number	Capacity	M
0.25-2t	BJ-8-206-0.25/2t	0.25t-2t	M12×1.75
500lb-4klb	BJ-8-206-500lb/4K	500lb-4klb	1/2-20UNF

BJ-8-207

Stainless steel foot, assembled with: BM8H, H8H.



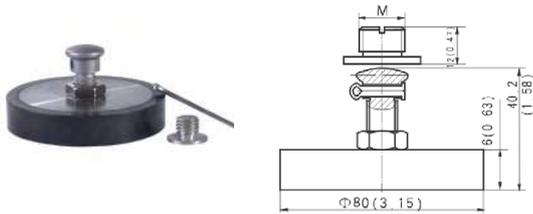
SHORT DESCRIPTION

Easy installation, self-centralization, anti-side loading and height adjustable.

Capacity	Part number	Capacity	M
0.25t-2t	BJ-8-207-0.25/2t	0.25t-2t	M12×1.75
5t	BJ-8-207-5t	5t	M20×2.5
500lb-4klb	BJ-8-207-500lb/4K	500lb-4klb	1/2-20UNF
10klb	BJ-8-207-10K	10klb	3/4-16UNF

HJ-8-217

Alloy steel foot with rubber, assembled with: BM8H, H8H.



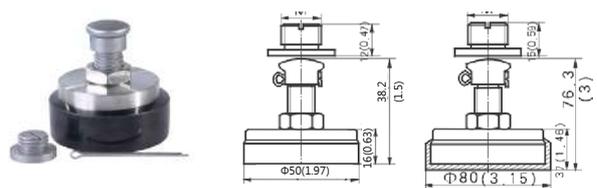
SHORT DESCRIPTION

Easy installation, self-centralization, anti-side loading and height adjustable.

Capacity	Part number	Capacity	M
0.25-2t	HJ-8-217-0.25/2t	0.25-2t	M12×1.75
500lb-4klb	HJ-8-217-500lb/4K	500lb-4klb	1/2-20UNF

HJ-8-218

Alloy steel foot with rubber, assembled with: BM8H, H8H.



SHORT DESCRIPTION

Easy installation, self-centralization, anti-side loading and height adjustable.

Capacity	M	Capacity	Part number
250kg-2t	M12×1.75	0.25t-2t	HJ-8-218-0.25/2t
5t	M20×2.5	5t	HJ-8-218-5t
500lb-4klb	1/2-20UNF	500lb-4klb	HJ-8-218-500lb/4K
10klb	3/4-16UNF	10klb	HJ-8-218-10K

BM-8-406

Stainless steel foot, assembled with: BM8H, H8H.



Capacity	Part number
0.25-2t	BM-8-406-0.25/2t
5t	BM-8-406-5t

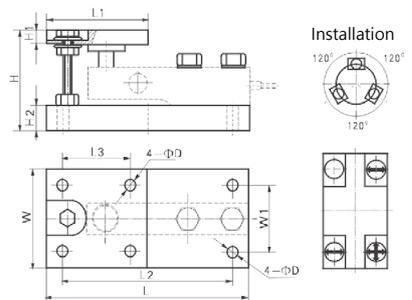
SHORT DESCRIPTION

- Compact construction, easy installation
- Excellent anti-reversal ability
- Anti-over loading ability
- Good self-aligning ability

Optional table		
Part number	Designation	Graphic
HM-8-401-1	Fixed	○
HM-8-401-2	Half-floating	⊕
HM-8-401-3	Floating	⊗

Dimension	Capacity	
	0.25-2t 0.5-5klb	5t 10klb
L	177.8(7.0)	235(9.25)
L1	114.3(4.5)	152.4(6.0)
L2	152.4(6.0)	184.2(7.25)
L3	88.9(3.5)	101.6(4.0)
H	104.8(4.13)	136.5(5.37)
H1	25.4(1.0)	32(1.26)
H2	19(0.75)	25.4(1.0)
W	114.3(4.5)	152.4(6.0)
W1	88.9(3.5)	101.6(4.0)
D	11(0.43)	17.5(0.69)

SPECIFICATIONS			
Capacity	t	0.25-2	5
Max. horizontal displacement	%FS	150	150
Max. anti-rotation	mm	±2.5	±3.5
Material	KN	3	10



FEATURES

- Nickel plated alloy steel IP67 shear beam load cell
- Suitable for truck-, track and hopper scales
- Suitable for hazardous locations

AVAILABLE MODELS

Capacity	Accuracy	Full article description
500kg	C3 Excluded from OIML	H8-C3-500kg-4B6
1t	C3 Excluded from OIML	H8-C3-1t-4B6
2t	C3 Excluded from OIML	H8-C3-2t-4B6
2.5t	C3 Excluded from OIML	H8-C3-2.5t-4B6
3t	C3 Excluded from OIML	H8-C3-3t-4B6
5t	C3	H8-C3-5t-4B6
10t	C3	H8-C3-10t-4B6
15t	C3	H8-C3-15t-4B6
20t	C3	H8-C3-20t-4B6
25t	C3	H8-C3-25t-4B6
30t	C3	H8-C3-30t-4B6
50t	C3	H8-C3-50t-4B6

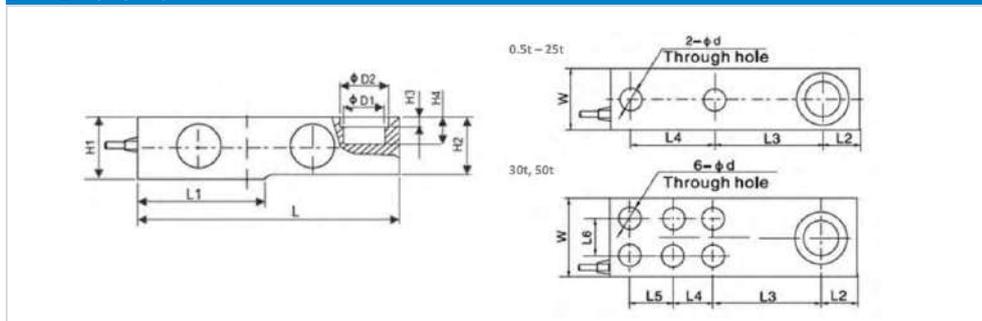


OIML test certificate no. D09-05.20
C of C no R60/2000-CN1-06.09

SPECIFICATION

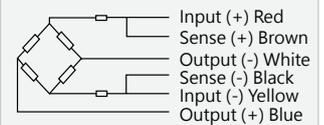
Accuracy class		C3	OIML R60 C3	
Output sensitivity (=FS)	mV/V		2.0 ± 0.002	
Maximum capacity (E _{max})	t	0.5/1/2/2.5/3	5/10/15/20	25/30/50
Maximum number of load cell intervals (nLC)			3000	
Ratio of minimum LC verification interval Y=E _{max} / V _{min}			10000	
Combined error	%FS		± 0.023	
Minimum dead load	%FS		0	
Safe overload	%FS		150	
Ultimate overload	%FS		300	
Zero balance	%FS		± 1.5	
Excitation, recommended voltage	V		5 ~ 12 (DC)	
Excitation maximum	V		18 (DC)	
Input resistance	Ω		350 ± 3.5	
Output resistance	Ω		351 ± 2	
Insulation resistance	MΩ		≥ 5000 (50VDC)	
Compensated temperature	°C		-10 ~ +40	
Operating temperature	°C		-35 ~ +65	
Storage temperature	°C		-40 ~ +70	
Element material			Nickel plated alloy steel	
Recommended torque on fixation	N.m	M12: 75 M14:120 M20:450 M27:1075 M33:1975		
Ingress protection (according to EN 60529)			IP67	
ATEX classification (optional)		IIIG Ex ia IIC T4 IIID Ex iaD 20 T73°C II3G Ex nL IIC T4		

DIMENSIONS IN MM



Dimension Capacity	H1	H2	H3	ΦD1	ΦD2	Φd	W	L	L1	L2	L3	L4	L5	L6
0.5t-2t	43 (1.69)	37 (1.46)	12.5 (0.49)	16 (0.63)	32 (1.26)	13 (0.51)	37 (1.46)	203 (7.99)	95 (3.74)	22 (0.87)	98 (3.86)	64 (2.52)	-	-
2.5t	43 (1.69)	37 (1.46)	12.5 (0.49)	16 (0.63)	32 (1.26)	15 (0.59)	37 (1.46)	203 (7.99)	95 (3.74)	22 (0.87)	98 (3.86)	64 (2.52)	-	-
3t	43 (1.69)	37 (1.46)	12.5 (0.49)	16 (0.63)	32 (1.26)	15 (0.59)	37 (1.46)	203 (7.99)	95 (3.74)	22 (0.87)	98 (3.86)	64 (2.52)	-	-
5t	52 (2.05)	48 (1.89)	12.5 (0.49)	22 (0.87)	38 (1.50)	21 (0.83)	48 (1.89)	235 (9.25)	110 (4.33)	22 (0.87)	124 (4.88)	66 (2.60)	-	-
10t	67 (2.64)	60 (2.36)	8.5 (0.33)	32 (1.26)	48 (1.89)	28 (1.10)	60 (2.36)	279 (10.98)	133 (5.24)	32 (1.26)	140 (5.51)	82 (3.23)	-	-
15t	67 (2.64)	60 (2.36)	8.5 (0.33)	32 (1.26)	54 (2.13)	28 (1.10)	60 (2.36)	279 (10.98)	133 (5.24)	32 (1.26)	140 (5.51)	82 (3.23)	-	-
20t,25t	82.5 (3.25)	70 (2.76)	10 (0.39)	38 (1.50)	54 (2.13)	34 (1.34)	70 (2.76)	318 (12.51)	153 (6.02)	38 (1.50)	159 (6.26)	89 (3.50)	-	-
30t	115 (4.53)	90 (3.54)	14 (0.55)	38 (1.50)	54 (2.13)	26 (1.02)	96 (3.78)	374 (14.72)	189 (7.44)	44.5 (1.75)	181 (7.13)	76 (2.99)	51 (2.01)	46 (1.81)
50t	143 (5.63)	100 (3.94)	14 (0.55)	44 (1.73)	60 (2.36)	29 (1.14)	105 (4.13)	416 (16.38)	210 (8.27)	48 (1.89)	196 (7.72)	92 (3.62)	56 (2.20)	52 (2.05)

WIRING



- Shielded, 6 conductor cable
- Cable diameter: Φ6.2mm.
- Standard cable length for 0.5t - 2t: 4m, for 5t: 6.5m and for 10t - 50t: 12m.
- Shield is not connected to the element

H8C

FEATURES

- Nickel plated alloy steel IP67 shear beam load cell (100 kg, 250kg are bending beam load cells)
- Adhesive sealed
- Suitable platform weighing, bed weighing, etc.
- High accuracy
- High reliability
- Current calibrated (sc-option)

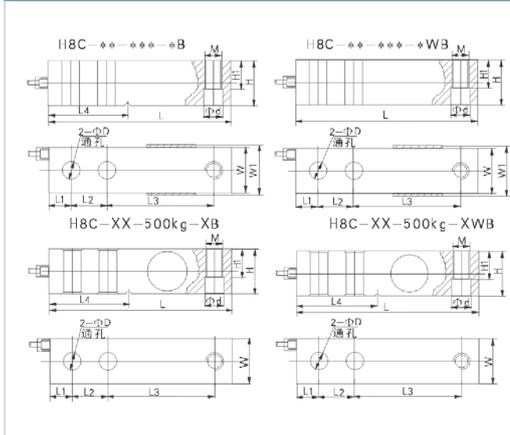


SPECIFICATION

Maximum capacity (E _{max})	t klb	0.5/1/2/2.5/3/4/5/6/7.5				
		1/1.5/2/2.5/3/4/5/7.5/10/20				
Accuracy class		C3	C4	C5	A5M	B10M
Approvals		OIML R60 C3	OIML R60 C4	OIML R60 C5	III 5000 Multiple	III L 10000 Multiple
Maximum number of load cell intervals (nLC)		3000	4000	5000	5000	10000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	14000	18000	15000	10000
Combined error	%FS	±0.020	±0.018	±0.010	±0.026	±0.050
Creep	%FS/30min	±0.016	±0.012	±0.010	±0.017	±0.040
Temperature effect on sensitivity	%FS/10°C	±0.011	±0.009	±0.008	±0.013	±0.040
Temperature effect on zero	%FS/10°C	±0.015	±0.010	±0.007	±0.014	±0.020
Output sensitivity (=FS)	mV/V	3.0±0.003		2.0±0.002		
Input resistance	Ω	350±3.5				
Output resistance	Ω	350±3.5				
Insulation resistance	MΩ	≥ 5000 (50VDC)				
Zero balance	%FS	±1.0				
Compensated temperature	°C	-10~+40				
Operating temperature	°C	-35~+70				
Excitation, recommended voltage	V	5~12 (DC)				
Excitation maximum	V	18 (DC)				
Safe overload	%FS	150				
Ultimate overload	%FS	300				
Recommended torque on fixation	N.m	M12: 100, M18: 200, M24: 700				
Ingress protection (according to EN 60529)		IP67				
ATEX classification (optional)	Operating temperature	°C			-20~+40	
		IIIG Ex ia IIC T4			IIID Ex iaD20 T73°C	
					IIIG Ex nL IIC T4	

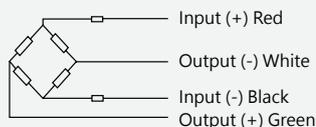
"S1" Output Sensitivity is 2.0±0.002MV/V

DIMENSIONS IN MM



Dimension Capacity	L	L1	L2	L3	L4	H	Dimension Capacity	H1	W	W1	D	d	M
0.5t-2t	130.0 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	54.2 (2.13)	31.8 (1.25)	0.5t-2t	15.8 (0.62)	31.8 (1.25)	34.0 (1.34)	13.5 (0.53)	13.5 (0.53)	M12×1.75
1K-4K	130.0 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	54.2 (2.13)	31.8 (1.25)	1K-4K	15.8 (0.62)	31.8 (1.25)	34.0 (1.34)	13.5 (0.53)	13.5 (0.53)	1/2-20UNF
5KSE	130.0 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	54.2 (2.13)	31.8 (1.25)	5KSE	15.8 (0.62)	31.8 (1.25)	34.0 (1.34)	13.5 (0.53)	13.5 (0.53)	1/2-21UNF
2.5t-5t	171.5 (6.75)	19.1 (0.75)	38.1 (1.5)	95.3 (3.75)	77.2 (3.04)	38.1 (1.5)	2.5t-5t	18.8 (0.74)	38.1 (1.5)	40.0 (1.57)	19.8 (0.78)	19.8 (0.78)	M18×1.5
5K-10K	171.5 (6.75)	19.1 (0.75)	38.1 (1.5)	95.3 (3.75)	77.2 (3.04)	38.1 (1.5)	5K-10K	18.8 (0.74)	38.1 (1.5)	40.0 (1.57)	19.8 (0.78)	19.8 (0.78)	3/4-16UNF
10t	222.3 (8.75)	25.4 (1.0)	50.8 (2.0)	120.7 (4.75)	101.6 (4)	50.8 (2.0)	10t	25.4 (1.0)	50.8 (2)	52.4 (2.06)	26.9 (1.06)	26.0 (1.02)	M24×2
20K	222.3 (8.75)	25.4 (1.0)	50.8 (2.0)	120.7 (4.75)	101.6 (4)	50.8 (2.0)	20K	25.4 (1.0)	50.8 (2)	52.4 (2.06)	26.9 (1.06)	26.0 (1.02)	1-12UNF
500kg	130.0 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	54.2 (2.13)	31.8 (1.25)	500kg	15.8 (0.62)	31.8 (1.25)	34.0 (1.34)	13.5 (0.53)	13.5 (0.53)	M12×1.75

WIRING



- Shielded, 4 conductor cable
- Cable diameter: Ø5mm
- Standard cable length for 100kg - 2t: 4m and 6m for the higher capacities
- Shield is not connected to the element

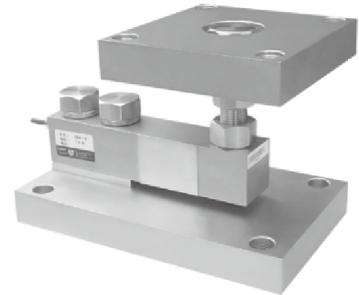
HM-8-402

SHORT DESCRIPTION

- Compact construction, easy installation.
- Adjustable mounting height,
- Using under heavy static load or slight dynamic load.

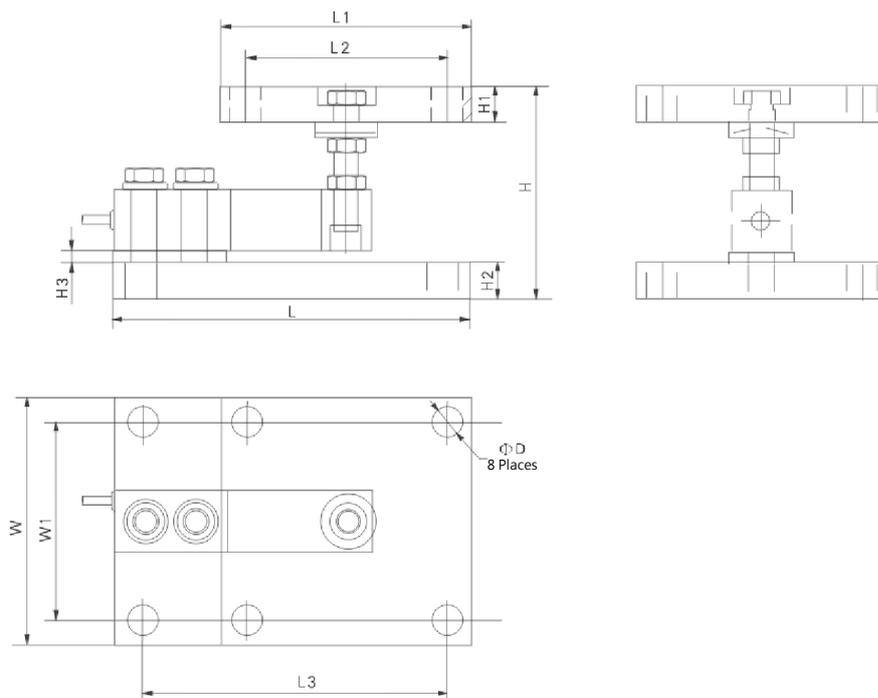
AVAILABLE MODELS

Capacity	Capacity
0.5t-2t	HM-8-402-0.5/2t
2.5t-5t	HM-8-402-2.5/5t
1klb-5KSE	HM-8-402-1/5KSE
5klb-10klb	HM-8-402-5/10K



Alloy steel, assembled with: H8C, B8D.

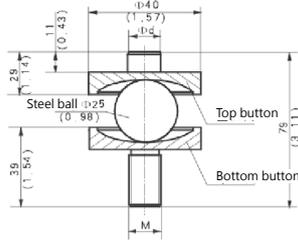
OUTLINE DIMENSION MM(INCH)



Dimension Capacity(t)	L	L1	L2	L3	H	H1	H2	H3	W	W1	D
0.5t-2t (1klb-5KSE)	180.9 (7.12)	127 (5.0)	101.6 (4.0)	152.4 (6.0)	100-120 (3.94-4.72)	18 (0.71)	18 (0.71)	4.0 (0.16)	127 (5.0)	101.6 (4.0)	16 (0.63)
2.5t-5t (5klb-10klb)	215.9 (8.5)	127 (5.0)	101.6 (4.0)	177.8 (7.0)	130-150 (5.12-5.91)	26 (1.02)	26 (1.02)	4.0 (0.16)	127 (5.0)	101.6 (4.0)	16 (0.63)

HY-8-102

Alloy steel, assembled with: H8C, B8D, HM8C, BM8D



SHORT DESCRIPTION

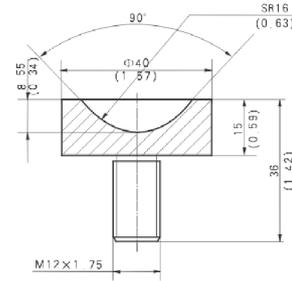
Easy installation, automatically centralized with steel ball, good self-aligning ability. Mainly used for platform scales, floor scales and other electronic weighing devices.

Capacity	Part number
0.5t-2t	HY-8-102-0.5/2t
2.5t-5t	HY-8-102-2.5/5t
250lb-5KSE	BY-8-104-250lb/5KSE
5klb-10klb	BY-8-104-5/10K

Capacity	Dimension	ϕd	M
0.5t-2t	0.5t-2t	12	M12×1.75
250lb-5KSE	250lb-5KSE	(0.47)	1/2-20UNF
2.5t-5t	2.5t-5t	18	M18×1.5
5klb-10klb	5klb-10klb	(0.71)	3/4-16UNF

HY-8-105

Alloy steel, assembled with: H8C, B8D, HM8C, BM8D



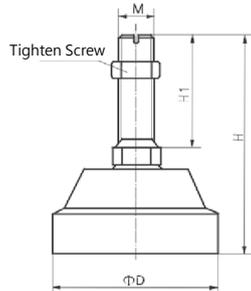
SHORT DESCRIPTION

Easy installation, good self-aligning ability. Mainly used for platform scales and other electronic weighing devices.

Capacity	Part number
0.5t-2t	HY-8-105-0.5/2t

HJ-8-201

Alloy steel, assembled with: H8C



SHORT DESCRIPTION

Easy installation, adjustable height, automatically centralized inside, good ability of anti-side loading. Mainly used for platform scales, and other electronic weighing devices.

Capacity	Part number
0.5-2t	HJ-8-201-0.5/2t
(0.5-2t)-M1	HJ-8-201-0.5/2t-M1
2.5-5t	HJ-8-201-2.5/5t
(2.5-5t)-M1	HJ-8-201-2.5/5t-M1
250lb-5KSE	HJ-8-201-250lb/5KSE
5klb-10klb	HJ-8-201-5/10K
10t	HJ-8-201-10t
15klb-20klb	HJ-8-201-15/20K

Capacity	Dimension	D	H	H1	M
0.5t-2t	0.5t-2t	60	92	50	M12×1.75
250lb-5KSE	250lb-5KSE	(2.36)	(3.62)	(1.97)	1/2-20UNF
2.5t-5t	2.5t-5t	80	105	50	M20×2.5 (Only for H8D)
5klb-10klb	5klb-10klb	(3.15)	(4.13)	(1.97)	M18×1.5 (Only for H8C)
10t	10t	86	112	50	M24×2
15klb-20klb	15klb-20klb	(3.39)	(4.41)	(1.97)	1-12UNF
(0.5t-2t)-M1	(0.5t-2t)-M1	60	92	50	M16×1.5
		(2.36)	(3.62)	(1.97)	

HJ-8-203

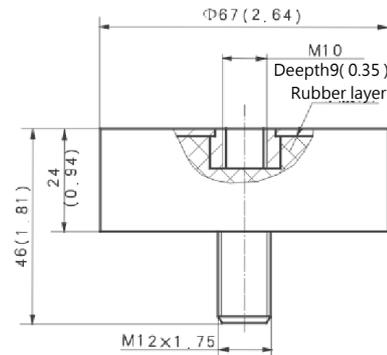
Alloy steel, assembled with: H8C, B8D, HM8C, BM8D



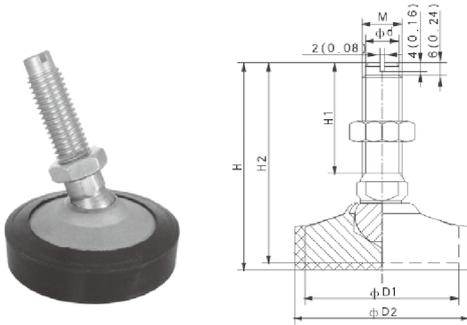
Capacity	Part number
0.5t-2t	HJ-8-203-0.5/2t

SHORT DESCRIPTION

Alloy steel with rubber inside, slightly adjustable of the slant, easy installation. Mainly used for platform scales, packaging scales, hybrid scales and other electronic weighing devices.



HJ-8-208



SHORT DESCRIPTION

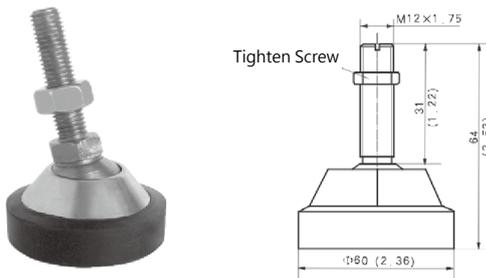
Easy installation, height adjustable, self-centralization, good anti-side loading ability.

Capacity	Part number
0.5t-2t	HJ-8-208-0.5/2t
2.5t-5t	HJ-8-208-2.5/5t
250lb-5KSE	HJ-8-208-250lb/5KSE
5klb-10klb	HJ-8-208-5/10K

Number	Capacity	D1	D2	H1	H2	H	M	Assembled Products:
1	0.5-2t	48.5 (1.91)	60 (2.36)	42 (1.65)	69 (2.72)	74 (2.91)	M12×1.75	H8C
2	2.5-5t	70 (2.76)	80 (3.15)	50 (1.97)	90 (3.54)	95 (3.74)	M18×1.5	H8C
3	2.5-5t	70 (2.76)	80 (3.15)	50 (1.97)	90 (3.54)	95 (3.74)	M20×2.5	B8D
4	250lb-5KSE	48.5 (1.91)	60 (2.36)	42 (1.65)	69 (2.72)	74 (2.91)	1/2-20UNF	H8C
5	5klb-10klb	70 (2.76)	80 (3.15)	50 (1.97)	90 (3.54)	95 (3.74)	3/4-16UNF	H8C

HJ-8-213

Alloy steel, assembled with: H8C, B8D, HM8C, BM8D



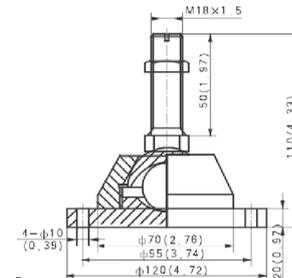
Capacity	Part number
0.5t-2t	HJ-8-213-0.5/2t

SHORT DESCRIPTION

Easy installation, adjustable height, automatically centralized inside, good ability of anti-side loading. Mainly used for platform scales, floor scales and other electronic weighing devices.

HJ-8-216

Alloy steel, assembled with: H8C, B8D



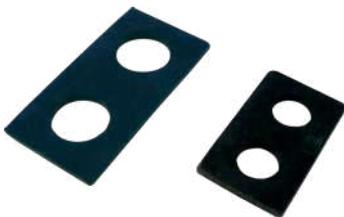
Capacity	Part number
2.5t-5t	HJ-8-216-2.5/5t

SHORT DESCRIPTION

Easy installation, automatically centralized inside, good ability of anti-side loading. Mainly used for platform scales, floor scales and other electronic weighing devices.

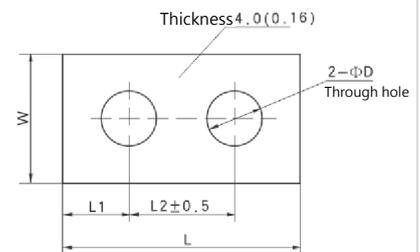
HD-8-301

Alloy steel, assembled with: H8C, B8D, HM8C, BM8D



SHORT DESCRIPTION

Mainly used for platform scales, floor scales and other electronic weighing devices.



Capacity	Part number
0.5t-2t	HD-8-301-0.5/2t
2.5t-5t	HD-8-301-2.5/5t
250lb-5KSE	HD-8-301-250lb/5KSE
5klb-10klb	HD-8-301-5/10K

Dimension	L	L1	L2	W	D
Capacity					
0.5t-2t (250lb-5KSE)	54 (2.13)	13 (0.51)	25.4 (1.0)	32 (1.26)	14 (0.55)
2.5t-5t (5klb-10klb)	76 (2.99)	19 (0.75)	38 (1.50)	38 (1.50)	20 (0.79)

HM8

FEATURES

- Nickel plated alloy steel IP68 shear beam load cell
- Hermetically sealed
- Suitable for truck, track, hopper and other electronic weighing devices



AVAILABLE MODELS

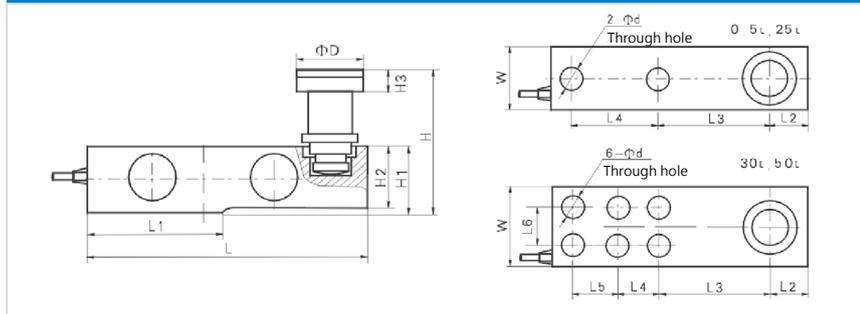
Capacity	Accuracy	Full article description
1t	C3 Excluded from OIML	HM8-C3-1t-6.5B6
2t	C3 Excluded from OIML	HM8-C3-2t-6.5B6
2.5t	C3 Excluded from OIML	HM8-C3-2.5t-6.5B6
3t	C3 Excluded from OIML	HM8-C3-3t-6.5B6
5t	C3	HM8-C3-5t-6.5B6
10t	C3	HM8-C3-10t-6.5B6
15t	C3	HM8-C3-15t-6.5B6
20t	C3	HM8-C3-20t-6.5B6
25t	C3 Excluded from OIML	HM8-C3-25t-6.5B6
30t	C3 Excluded from OIML	HM8-C3-30t-6.5B6



SPECIFICATION

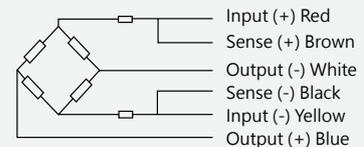
		C3	OIML R60 C3
Accuracy class		C3	OIML R60 C3
Output sensitivity (=FS)	mV/V	2.0 ± 0.002	
Maximum capacity (E _{max})	t	1/ 2/2.5/3/30	5/10/15/20/25
Maximum number of load cell intervals (nLC)		3000	
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	15000
Combined error	%FS	± 0.020	
Minimum dead load	%FS	0	
Safe overload	%FS	150	
Ultimate overload	%FS	300	
Zero balance	%FS	± 1.0	
Excitation, recommended voltage	V	5 ~ 12 (DC)	
Excitation maximum	V	18 (DC)	
Input resistance	Ω	400 ± 5	
Output resistance	Ω	352 ± 3.0	
Insulation resistance	MΩ	≥ 5000 (50VDC)	
Compensated temperature	°C	-10 ~ +40	
Operating temperature	°C	-35 ~ +65	
Storage temperature	°C	-40 ~ +70	
Element material		Nickel plated alloy steel	
Ingress protection (acc. To EN 60529)		IP68	
Recommended torque on fixation	N.m	M12: 100 M14:120 M20:500 M27:1075 M33:1975	
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD 20 T73°C

DIMENSIONS IN MM



Dimension Capacity	H	H1	H2	H3	ΦD	Φd	W	L	L1	L2	L3	L4	L5	L6
1-2t	57.9	43	37	5	35	13	37	203	95	22	98	64	/	/
	(2.28)	(1.69)	(1.47)	(0.2)	(1.38)	(0.51)	(1.47)	(7.99)	(3.74)	(0.87)	(3.86)	(2.52)		
2.5 t	57.9	43	37	5	35	15	37	203	95	22	98	64	/	/
	(2.28)	(1.69)	(1.47)	(0.2)	(1.38)	(0.59)	(1.47)	(7.99)	(3.74)	(0.87)	(3.86)	(2.52)		
3t	62.9	43	37	5	35	15	37	203	95	22	98	64	/	/
	(2.48)	(1.69)	(1.47)	(0.2)	(1.38)	(0.59)	(1.47)	(7.99)	(3.74)	(0.87)	(3.86)	(2.52)		
5t	78.7	52	48	8	42	21	48	235	110	22	124	66	/	/
	(3.1)	(2.05)	(1.89)	(0.31)	(1.65)	(0.83)	(1.89)	(9.25)	(4.33)	(0.87)	(4.88)	(2.6)		
10t,15t	127.7	67	60	12	57	28	60	279	133	32	140	82	/	/
	(5.03)	(2.64)	(2.36)	(0.47)	(2.24)	(1.10)	(2.36)	(10.98)	(5.24)	(1.26)	(5.51)	(3.32)		
20t,25t	143.5	82.5	70	12	70	34	70	318	153	38	159	89	/	/
	(5.65)	(3.25)	(2.76)	(0.47)	(2.76)	(1.34)	(2.76)	(12.52)	(6.02)	(1.5)	(6.26)	(3.5)		
30t	174	115	90	18	70	26	96	374	189	44.5	181	76	51	46
	(6.85)	(4.53)	(3.54)	(0.71)	(2.76)	(1.02)	(3.78)	(14.72)	(7.44)	(1.75)	(7.13)	(2.99)	(2.01)	(1.81)

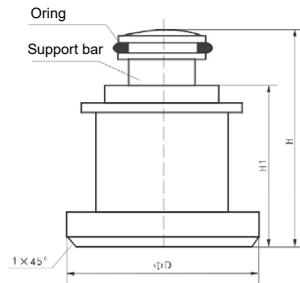
WIRING



- Shielded, 6 conductor cable.
- Cable diameter: Φ6.2mm.
- Standard cable length: 6.5m.
- Shield is not connected to element.

HY-8-101

Alloy steel, assembled with: H8, HM8



SHORT DESCRIPTION

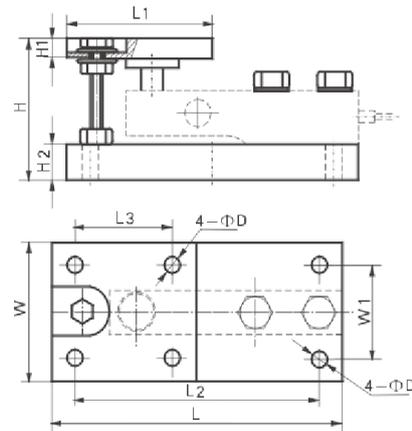
- Easy installation, automatically centralized with steel ball, good self-aligning ability.
- Mainly used for platform scale, floor scale and other electronic weighing devices.

Capacity	Part number
0.5t-3t	HY-8-101-0.5/3t
5t	HY-8-101-5t
10t-15t	HY-8-101-10/15t
20t-25t	HY-8-101-20/25t
30t	HY-8-101-30t
50t	HY-8-101-50t

Dimension	ΦD	H	H1
Capacity			
0.5t-3t	35(1.38)	44.9(1.77)	24.9(0.98)
5t	42(1.65)	56.7(2.23)	34.7(1.37)
10t-15t	57(2.24)	80.7(3.18)	66.7(2.63)
20t-25t	70(2.76)	85(3.35)	67(2.64)
30t	70(2.76)	91(3.58)	70(2.76)
50t	85(3.35)	102(4.04)	82(3.23)

HM-8-401

Alloy steel, assembled with: H8, HM8



SHORT DESCRIPTION

- Compact construction, easy installation
- With anti-reversal ability
- With anti-overloading ability
- With self-aligning ability
- Using under heavy static load or slight dynamic load

SPECIFICATION

Capacity	t	0.5-3	5	10-15	20
Ultimate load	%FS	150	150	150	150
Max.Horizontal displacement	mm	±2	±2.5	±4	±4
Max.anti-rotation	kN	3	10	30	50
Material	Alloy steel				

OPTIONAL TABLE

Part number	Designation	Cutline
HM-8-401-1	Fixed	○
HM-8-401-2	Half-floating	⊕
HM-8-401-3	Floating	⊕

Capacity	0.5t~3t	5t	10t~15t	20t
Dimension				
L	240 (9.45)	300 (11.8)	355.6 (14.0)	406.4 (16.0)
L1	114.3 (4.5)	152.4 (6.0)	203.2 (8.0)	228.6 (9.0)
L2	214.6 (8.45)	249.2 (9.81)	304.8 (12.0)	342.9 (13.5)
L3	88.9 (3.5)	101.6 (4.0)	152.4 (6.0)	165.1 (6.5)
H	104.8 (4.13)	152.4 (6.0)	190.5 (7.5)	228.6 (9.0)
H1	25.4 (1.0)	42 (1.65)	44.5 (1.75)	50.8 (2.0)
H2	25.4 (1.0)	42 (1.65)	44.5 (1.75)	50.8 (2.0)
W	114.3 (4.50)	152.4 (6.0)	203.2 (8.0)	228.6 (9.0)
W1	88.9 (3.5)	101.6 (4.0)	152.4 (6.0)	165.1 (6.5)
D	11 (0.43)	17.5 (0.69)	20.6 (0.81)	25.5 (1.0)

HM8C

FEATURES

- Nickel plated alloy steel IP68 shear beam load cell
- Hermetically sealed
- Suitable for electronic platform scales, hopper scales
- High accuracy

AVAILABLE MODELS

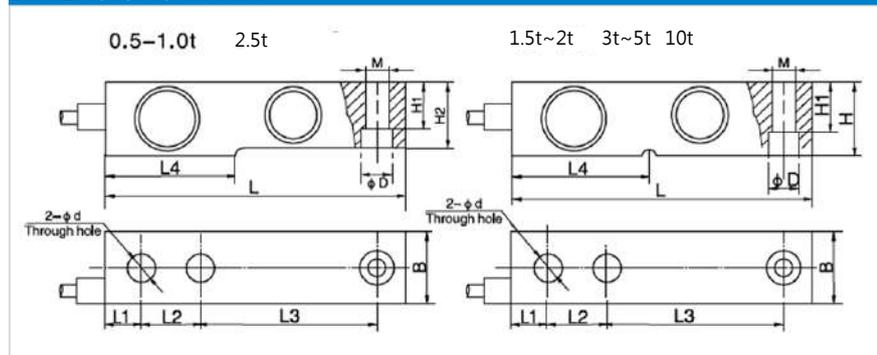
Capacity	Accuracy	Full article description
500kg	C3 Excluded from OIML	HM8C-C3-500kg-4B
1t	C3 Excluded from OIML	HM8C-C3-1t-4B
1.5t	C3 Excluded from OIML	HM8C-C3-1.5t-4B
2t	C3 Excluded from OIML	HM8C-C3-2t-4B
3t	C3 Excluded from OIML	HM8C-C3-3t-4B
5t	C3 Excluded from OIML	HM8C-C3-5t-4B
10t	C3 Excluded from OIML	HM8C-C3-10t-4B



SPECIFICATION

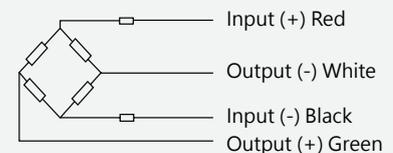
Accuracy class		C3
Output sensitivity (=FS)	mV/V	2.0 ± 0.004
Maximum capacity (E _{max})	t	0.5/1/1.5/2/3/5/10
Maximum number of load cell intervals (nLC)		3000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000
Combined error	%FS	± 0.0230
Minimum dead load	%FS	0
Safe overload	%FS	150
Ultimate overload	%FS	300
Zero balance	%FS	± 1.5
Excitation, recommended voltage	V	5 ~ 12 (DC)
Excitation maximum	V	18 (DC)
Input resistance	Ω	350 ± 3.5
Output resistance	Ω	351 ± 2.0
Insulation resistance	MΩ	≥ 5000 (50VDC)
Compensated temperature	°C	-10 ~ +40
Operating temperature	°C	-35 ~ +65
Storage temperature	°C	-40 ~ +70
Element material		Nickel plated alloy steel
Ingress protection (acc. to EN 60529)		IP68
Recommended torque on fixation	N.m	M12: 100 M18: 300 M24: 750
ATEX classification (optional)		II1G Ex ia IIC T4 II1D Ex iaD 20 T73°C II3G Ex nL IIC T4

DIMENSIONS IN MM



Dimension	L	L1	L2	L3	L4	H	H1	H2	B	ΦD	Φd	M
Capacity(t)												
0.5	130 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	53.7 (2.11)	31.8 (1.25)	15.8 (0.62)	26 (1.02)	31.8 (1.25)	13.5 (0.53)	13.5 (0.53)	M12
1.0	130 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	53.7 (2.11)	31.8 (1.25)	15.8 (0.62)	28 (1.1)	31.8 (1.25)	13.5 (0.53)	13.5 (0.53)	M12
1.5-2	130 (5.12)	15.8 (0.62)	25.4 (1.0)	76.2 (3.0)	54.2 (2.13)	31.8 (1.25)	15.8 (0.62)	-	31.8 (1.25)	13.5 (0.53)	13.5 (0.53)	M12
2.5	171.5 (6.75)	19.1 (0.75)	38.1 (1.5)	95.3 (3.75)	76.2 (3.0)	38.1 (1.5)	18.8 (0.74)	34 (1.34)	38.1 (1.5)	19.8 (0.78)	19.8 (0.78)	M18
3-5	171.5 (6.75)	19.1 (0.75)	38.1 (1.5)	95.3 (3.75)	77.2 (3.04)	38.1 (1.5)	18.8 (0.74)	-	38.1 (1.5)	19.8 (0.78)	19.8 (0.78)	M18
10	222.3 (8.75)	25.4 (1.0)	50.8 (2.0)	120.3 (4.74)	101.6 (4.0)	50.8 (2.0)	25.4 (1.0)	-	50.8 (2.0)	26 (1.02)	26 (1.02)	M24

WIRING



- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm.
- Standard cable length for 500kg -2t:4m and for 3t - 10t: 6m.
- Shield is not connected to element.

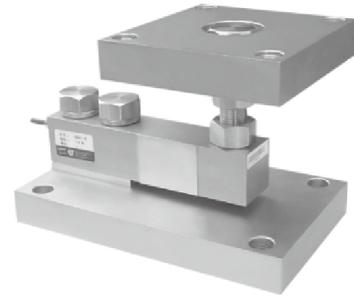
HM-8-402

SHORT DESCRIPTION

- Compact construction, easy installation.
- Adjustable mounting height,
- Using under heavy static load or slight dynamic load.

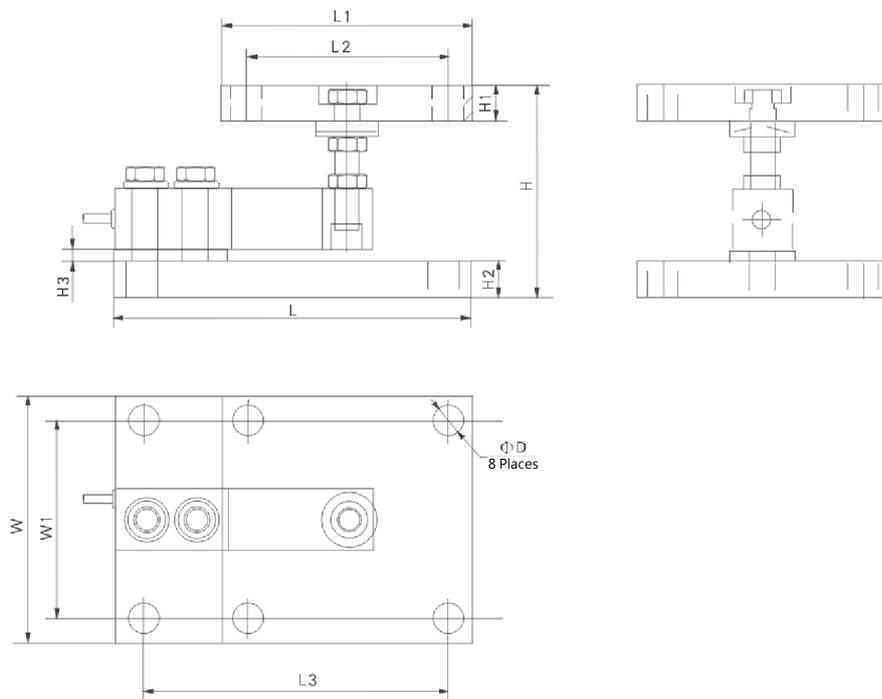
AVAILABLE MODELS

Capacity	Capacity
0.5t-2t	HM-8-402-0.5/2t
2.5t-5t	HM-8-402-2.5/5t
250lb-5KSE	HM-8-402-250lb/5KSE
5klb-10klb	HM-8-402-5/10K



Alloy steel, assembled with: H8C,B8D.

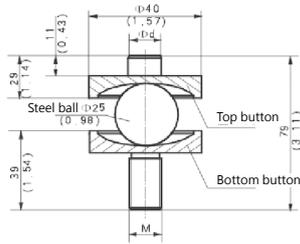
OUTLINE DIMENSION MM(INCH)



Dimension Capacity(t)	L	L1	L2	L3	H	H1	H2	H3	W	W1	D
0.5t-2t (250lb-5KSE)	180.9 (7.12)	127 (5.0)	101.6 (4.0)	152.4 (6.0)	100-120 (3.94-4.72)	18 (0.71)	18 (0.71)	4.0 (0.16)	127 (5.0)	101.6 (4.0)	16 (0.63)
2.5t-5t (5klb-10klb)	215.9 (8.5)	127 (5.0)	101.6 (4.0)	177.8 (7.0)	130-150 (5.12-5.91)	26 (1.02)	26 (1.02)	4.0 (0.16)	127 (5.0)	101.6 (4.0)	16 (0.63)

HY-8-102

Alloy steel, assembled with: H8C, B8D, HM8C, BM8D



SHORT DESCRIPTION

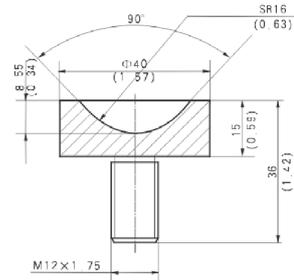
- Easy installation, automatically centralized with steel ball, good self-aligning ability.
- Mainly used for platform scales, floor scales and other electronic weighing devices.

Capacity	Part number
0.5t-2t	HY-8-102-0.5/2t
2.5t-5t	HY-8-102-2.5/5t
250lb-5KSE	BY-8-104-250lb/5KSE
5klb-10klb	BY-8-104-5/10K

Dimension Capacity	Φd	M
0.5t-2t	12 (0.47)	M12×1.75
250lb-5KSE	18 (0.71)	1/2-20UNF
2.5t-5t	18 (0.71)	M18×1.5
5klb-10klb	18 (0.71)	3/4-16UNF

HY-8-105

Alloy steel, assembled with: H8C, B8D, HM8C, BM8D



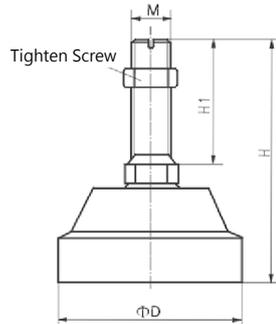
SHORT DESCRIPTION

- Easy installation, good self-aligning ability.
- Mainly used for platform scales and other electronic weighing devices.

Capacity	Part number
0.5t-2t	HY-8-105-0.5/2t

HJ-8-201

Alloy steel, assembled with: H8C



SHORT DESCRIPTION

- Easy installation, adjustable height, automatically centralized inside, good ability of anti-side loading.
- Mainly used for platform scales, and other electronic weighing devices.

Capacity	Part number
0.5-2t	HJ-8-201-0.5/2t
(0.5-2t)-M1	HJ-8-201-0.5/2t-M1
2.5-5t	HJ-8-201-2.5/5t
(2.5-5t)-M1	HJ-8-201-2.5/5t-M1
250lb-5KSE	HJ-8-201-250lb/5KSE
5klb-10klb	HJ-8-201-5/10K
10t	HJ-8-201-10t
15klb-20klb	HJ-8-201-15/20K

Dimension Capacity	D	H	H1	M
0.5t-2t	60 (2.36)	92 (3.62)	50 (1.97)	M12×1.75
250lb-5KSE	60 (2.36)	92 (3.62)	50 (1.97)	1/2-20UNF
2.5t-5t	80 (3.15)	105 (4.13)	50 (1.97)	M20×2.5 (Only for H8D)
5klb-10klb	80 (3.15)	105 (4.13)	50 (1.97)	3/4-16UNF
10t	86 (3.39)	112 (4.41)	50 (1.97)	M24×12
15klb-20klb	86 (3.39)	112 (4.41)	50 (1.97)	1-12UNF
(0.5t-2t)-M1	60 (2.36)	92 (3.62)	50 (1.97)	M16×1.5
(2.5t-5t)-M1	60 (2.36)	92 (3.62)	50 (1.97)	M18×1.5 (Only for H8C)

HJ-8-203

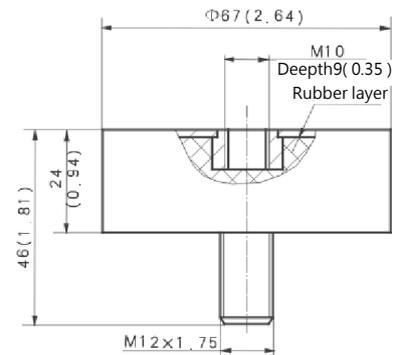
Alloy steel, assembled with: H8C, B8D, HM8C, BM8D



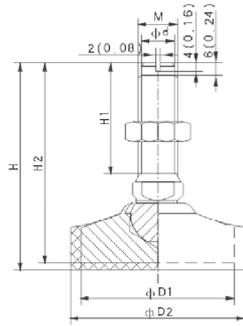
Capacity	Part number
0.5t-2t	HJ-8-203-0.5/2t

SHORT DESCRIPTION

- Alloy steel with rubber inside, slightly adjustable of the slant, easy installation.
- Mainly used for platform scales, packaging scales, hybrid scales and other electronic weighing devices.



HJ-8-208



Number	Capacity	D1	D2	H1	H2	H	M	Assembled Products
1	0.5-2t	48.5 (1.91)	60 (2.36)	42 (1.65)	69 (2.72)	74 (2.91)	M12×1.75	H8C
2	2.5-5t	70 (2.76)	80 (3.15)	50 (1.97)	90 (3.54)	95 (3.74)	M18×1.5	H8C
3	2.5-5t	70 (2.76)	80 (3.15)	50 (1.97)	90 (3.54)	95 (3.74)	M20×2.5	B8D
4	250lb-5KSE	48.5 (1.91)	60 (2.36)	42 (1.65)	69 (2.72)	74 (2.91)	1/2-20UNF	H8C
5	5klb-10klb	70 (2.76)	80 (3.15)	50 (1.97)	90 (3.54)	95 (3.74)	3/4-16UNF	H8C

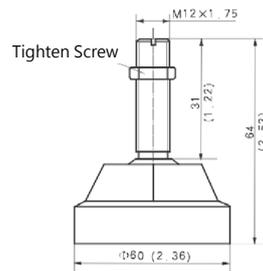
SHORT DESCRIPTION

Easy installation, height adjustable, self-centralization, good anti-side loading ability.

Capacity	Part number
0.5t-2t	HJ-8-208-0.5/2t
2.5t-5t	HJ-8-208-2.5/5t
250lb-5KSE	HJ-8-208-250lb/5KSE
5klb-10klb	HJ-8-208-5/10K

HJ-8-213

Alloy steel, assembled with: H8C, B8D, HM8C, BM8D



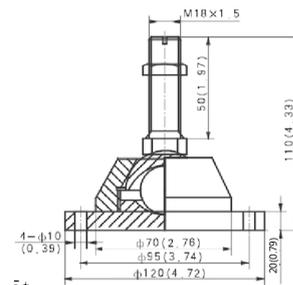
SHORT DESCRIPTION

- Easy installation, adjustable height, automatically centralized inside, good ability of anti-side loading.
- Mainly used for platform scales, and other electronic weighing devices.

Capacity	Part number
0.5t-2t	HJ-8-213-0.5/2t

HJ-8-216

Alloy steel, assembled with: H8C, B8D



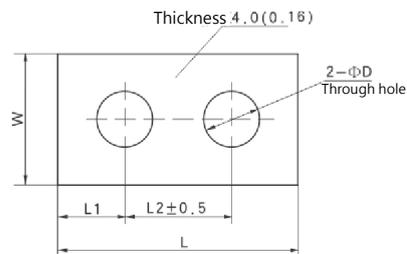
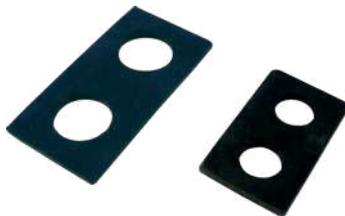
SHORT DESCRIPTION

- Easy installation, adjustable height, automatically centralized inside, good ability of anti-side loading.
- Mainly used for platform scales, and other electronic weighing devices.

Capacity	Part number
2.5t-5t	HJ-8-216-2.5/5t

HD-8-301

Alloy steel, assembled with: H8C, B8D, HM8C, BM8D



Capacity	Part number
0.5t-2t	HD-8-301-0.5/2t
2.5t-5t	HD-8-301-2.5/5t
250lb-5KSE	HD-8-301-250lb/5KSE
5klb-10klb	HD-8-301-5/10K

SHORT DESCRIPTION

Mainly used for platform scales, floor scales and other electronic weighing devices.

Capacity	Dimension	L	L1	L2	W	D
0.5t-2t (250lb-5KSE)		54 (2.13)	13 (0.51)	25.4 (1.0)	32 (1.26)	14 (0.55)
2.5t-5t (5klb-10klb)		76 (2.99)	19 (0.75)	38 (1.50)	38 (1.50)	20 (0.79)

B9B1

FEATURES

- Stainless steel construction, dual shear beam structure, adhesive sealed, compression loading available.
- Ingress protection (according to EN 60529): IP67
- Suitable for platform scales and other electronic weighing devices.



AVAILABLE MODELS

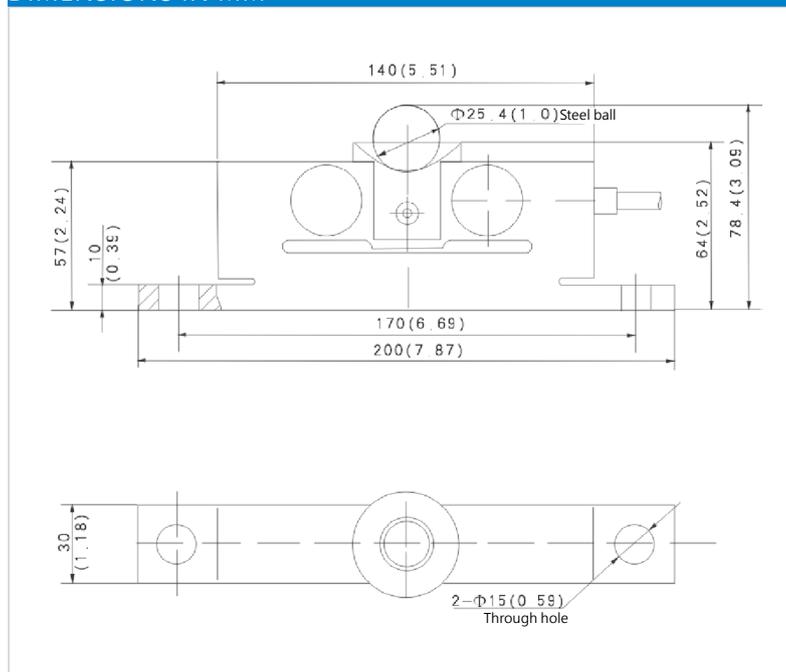
Capacity	Accuracy	Full article description
xxt	C3	B9B1-C3-xxt-4B



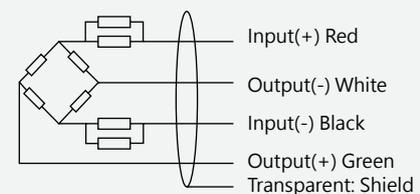
SPECIFICATION

Maximum capacity (E_{max})	t	2/5
Accuracy class		C3
Maximum number of load cell intervals (nLC)		3000
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$		10000
Combined error	%FS	± 0.020
Creep	%FS/30min	± 0.016
Temperature effect on sensitivity	%FS/10°C	± 0.011
Temperature effect on zero	%FS/10°C	± 0.015
Output sensitivity (=FS)	mV/V	1.2 ± 0.004
Input resistance	Ω	700 ± 7
Output resistance	Ω	703 ± 4
Insulation resistance	M Ω	≥ 5000 (50VDC)
Zero balance	%FS	± 2.5
Compensated temperature	°C	-10 ~ +40
Operating temperature	°C	-35 ~ +65
Excitation, recommended voltage	V	5 ~ 12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	120
Ultimate overload	%FS	150

DIMENSIONS IN MM



WIRING



- Adopt shielded, 4 conductor cable
- Standard cable length: 4m

FEATURES

- Stainless steel IP67 dual shear beam load cell
- High accuracy
- Suitable for truck scales and other heavy weighing devices
- Sealed construction



AVAILABLE MODELS

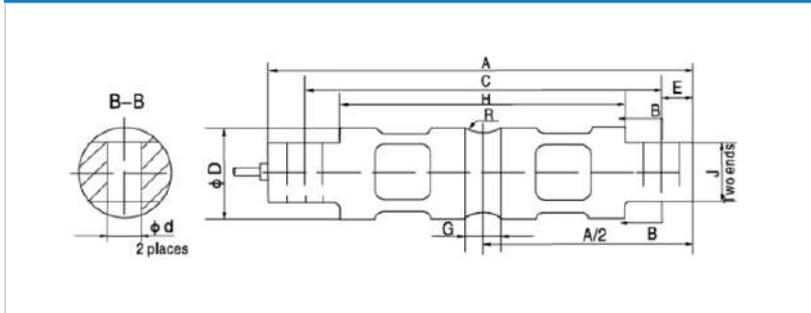
xxklb	A5M/B10M	B9C-xx-xxK-9B
NTEP A5S/B10M Certificate (Klb-250Klb)		
xxklb	C3/C4/A5M/B10M	H9C-xx-xxK-9B
5klb-250klb approved by PTB C3.		
5klb-20klb approved by PTB C4.		
5klb-250klb approved by NTEP A5M/B10M.		



SPECIFICATION

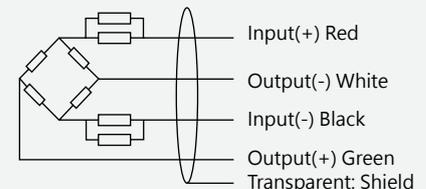
Maximum capacity (E _{max})	klb	5/10/15/20/30/40/50/60/75/90/100/150/200/250			
Accuracy class		C3	C4	A5M	B10M
Maximum number of load cell intervals (nLC)		3000	4000	III5000 Multiple	IIIL10000 Multiple
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	14000	15000	10000
Combined error	%FS	±0.020	±0.018	±0.026	±0.050
Creep	%FS/30min	±0.016	±0.012	±0.017	±0.040
Temperature effect on sensitivity	%FS/10°C	±0.011	±0.009	±0.013	±0.040
Temperature effect on zero	%FS/10°C	±0.015	±0.010	±0.014	±0.020
Output sensitivity (=FS)	mV/V	3.0±0.008			
Input resistance	Ω	700±7			
Output resistance	Ω	703±4			
Insulation resistance	MΩ	≥ 5000 (50VDC)			
Zero balance	%FS	±1.0			
Compensated temperature	°C	-10~+40			
Operating temperature	°C	-35~+70			
Excitation, recommended voltage	V	5~12 (DC)			
Excitation maximum	V	18 (DC)			
Safe overload	%FS	150			
Ultimate overload	%FS	300			
ATEX classification (optional)		II1G Ex ia II1C T4	II1D Ex iaD20 T73°C	II3G Ex nL II C T4	

DIMENSIONS IN MM



Dimension Capacity	A	C	H	G	ΦD	J	Φd	R	E
5Klb, 10Klb	206.2 (8.12)	174.6 (6.88)	133.1 (5.24)	15.7 (0.62)	43.2 (1.7)	28.4 (1.12)	16.7 (0.66)	R12.7 (0.5)	15.7 (0.62)
15Klb, 20Klb	206.2 (8.12)	174.6 (6.88)	133.1 (5.24)	21.3 (0.84)	49.5 (1.95)	28.4 (1.12)	16.7 (0.66)	R12.7 (0.5)	15.7 (0.62)
30Klb, 75Klb	260.4 (10.25)	215.9 (8.5)	165.1 (6.5)	25.4 (1.0)	76.2 (3.0)	60.2 (2.37)	26.9 (1.06)	R25.4 (1.0)	22.4 (0.88)
90Klb, 100Klb	285.8 (11.25)	241.3 (9.5)	190.2 (7.49)	31.0 (1.22)	88.9 (3.5)	63.5 (2.5)	26.9 (1.06)	R38.1 (1.5)	22.4 (0.88)
150Klb	285.8 (11.25)	241.3 (9.5)	190.2 (7.49)	31.0 (1.22)	99.1 (3.9)	71.1 (2.80)	26.9 (1.06)	R38.1 (1.5)	22.4 (0.88)
200Klb, 250Klb	408.9 (16.1)	330.2 (13.0)	254.0 (10.0)	31.7 (1.25)	136.6 (5.38)	116.8 (4.6)	39.6 (1.56)	R50.8 (2.0)	39.4 (1.55)

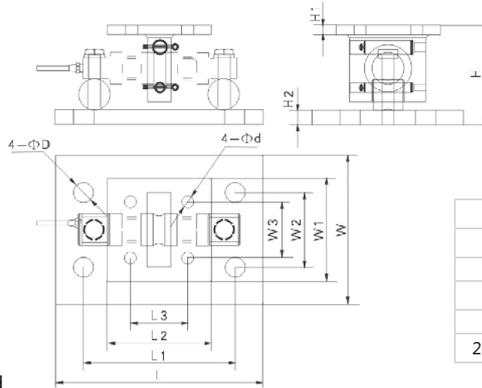
WIRING



- Shielded, 4 conductor cable.
- Cable diameter for 5k - 20k: Φ5mm and for 30k - 250k: Φ8mm.
- Standard cable length: 9m.
- Shield is not connected to element.

HM-9-401

Alloy steel mounting kit assembled with: H9C, B9C.



Capacity	Part number
5klb-20klb	HM-9-401-5/20K
30klb-75klb	HM-9-401-30/75K
100klb	HM-9-401-100K
150klb	HM-9-401-150K
200klb-250klb	HM-9-401-200/250K

SHORT DESCRIPTION

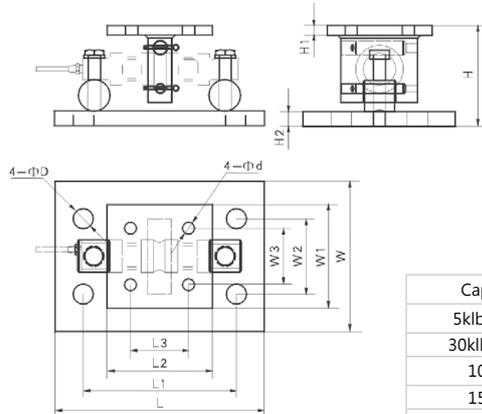
- Compact construction, easy installation.
- Excellent anti-reversal ability.
- Using under heavy static load or light dynamic load.

SPECIFICATION	
Safety loading	150%FS
Ultimate loading	300%FS
Max. anti-reversal loading	40%FS
Max. anti-side loading	20%FS
Max. vertical lifting	5-20K:3.3K(1.5t)/
	30-75K:11K(5t)
	100-150K:16.5K(7.5t)/
200-250K:68K(31t)	

Dimension Capacity (klb)	Dimension													
	L	L1	L2	L3	W	W1	W2	W3	H	H1	H2	D	d	
5-20klb	279.4 (11.0)	203.2 (8.0)	139.7 (5.5)	76.2 (3.0)	203.2 (8.0)	139.7 (5.5)	101.6 (4.0)	76.2 (3.0)	139.2 (5.48)	12.7 (0.5)	19 (0.75)	26.9 (1.06)	16 (0.63)	
30-75klb	381 (15.0)	292.1 (11.5)	203.2 (8.0)	130.3 (5.13)	254 (10.0)	203.2 (8.0)	152.4 (6.0)	130.3 (5.13)	214.1 (8.43)	19.1 (0.75)	25 (1.0)	31 (1.22)	19.1 (0.75)	
100-150klb	57.2 (18.0)	355.6 (14.0)	254 (10.0)	190.5 (7.5)	304.8 (12.0)	254 (10.0)	228.6 (9.0)	190.5 (7.5)	264 (10.39)	31.8 (1.25)	31.8 (1.25)	35.1 (1.38)	20.6 (0.81)	
200-250klb	660.4 (26.0)	508 (20.0)	304.8 (12.0)	228.6 (9.0)	304.8 (12.0)	304.8 (12.0)	152.4 (6.0)	228.6 (9.0)	400 (15.73)	50.8 (2.0)	50.8 (2.0)	47.8 (1.88)	26.9 (1.06)	

BM-9-402

Alloy steel mounting kit assembled with: H9C, B9C.



Capacity	Part number
5klb-20klb	BM-9-402-5/20K
30klb-75klb	BM-9-402-30/75K
100klb	BM-9-402-100K
150klb	BM-9-402-150K
200klb-250klb	BM-9-402-200/250K

SHORT DESCRIPTION

- Compact construction, easy installation.
- Excellent anti-reversal ability.
- Using under heavy static load or light dynamic load.
- Stainless steel, with good ability against corrosive environments.

SPECIFICATION	
Safety loading	150%FS
Ultimate loading	300%FS
Max. anti-reversal loading	40%FS
Max. anti-side loading	20%FS
Max. vertical lifting	5-20K:3.3K(1.5t)/
	30-75K:11K(5t)
	100-150K:16.5K(7.5t)/
200-250K:68K(31t)	

Dimension Capacity (klb)	Dimension													
	L	L1	L2	L3	W	W1	W2	W3	H	H1	H2	D	d	
5-20klb	279.4 (11.0)	203.2 (8.0)	139.7 (5.5)	76.2 (3.0)	203.2 (8.0)	139.7 (5.5)	101.6 (4.0)	76.2 (3.0)	139.2 (5.48)	12.7 (0.5)	19 (0.75)	26.9 (1.06)	16 (0.63)	
30-75klb	381 (15.0)	292.1 (11.5)	203.2 (8.0)	130.3 (5.13)	254 (10.0)	203.2 (8.0)	152.4 (6.0)	130.3 (5.13)	214.1 (8.43)	19.1 (0.75)	25 (1.0)	31 (1.22)	19.1 (0.75)	
100-150klb	57.2 (18.0)	355.6 (14.0)	254 (10.0)	190.5 (7.5)	304.8 (12.0)	254 (10.0)	228.6 (9.0)	190.5 (7.5)	264 (10.39)	31.8 (1.25)	31.8 (1.25)	35.1 (1.38)	20.6 (0.81)	
200-250klb	660.4 (26.0)	508 (20.0)	304.8 (12.0)	228.6 (9.0)	304.8 (12.0)	304.8 (12.0)	152.4 (6.0)	228.6 (9.0)	400 (15.73)	50.8 (2.0)	50.8 (2.0)	47.8 (1.88)	26.9 (1.06)	

FEATURES

- Stainless steel construction, dual shear beam structure, adhesive sealed, compression loading available.
- Ingress protection (according to EN 60529): IP67
- Suitable for electronic truck scales, hopper scales, track scales and other electronic weighing devices.



AVAILABLE MODELS

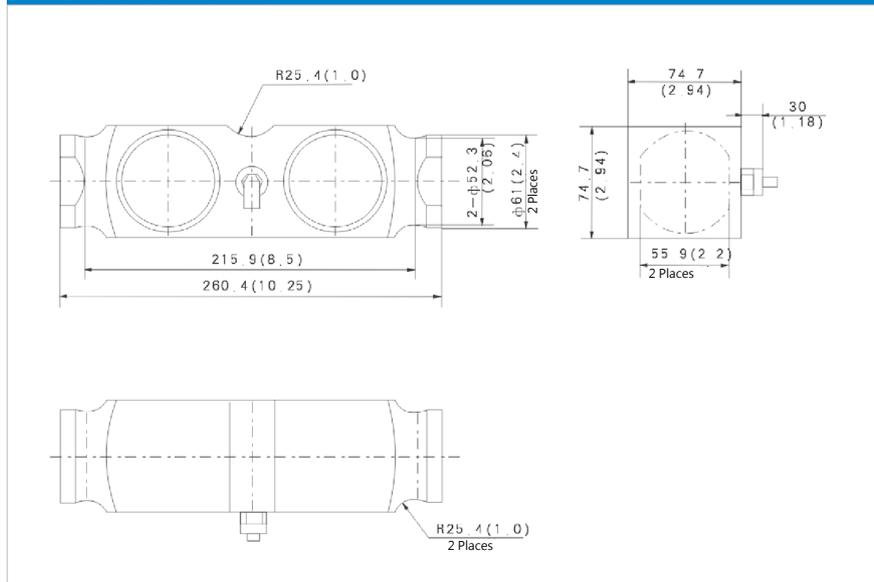
Capacity xxklb	Accuracy C3	Full article description B9E-C3-xxK-9B



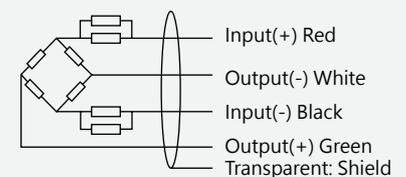
SPECIFICATION

Maximum capacity (E _{max})	klb	50/60/65/75/100/125/150		
Accuracy class		C3		
Maximum number of load cell intervals (nLC)		3000		
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000		
Combined error	%FS	±0.020		
Creep	%FS/30min	±0.016		
Temperature effect on sensitivity	%FS/10°C	±0.011		
Temperature effect on zero	%FS/10°C	±0.015		
Output sensitivity (=FS)	mV/V	3.0±0.003		
Input resistance	Ω	700±7		
Output resistance	Ω	703±4		
Insulation resistance	MΩ	≥ 5000 (50VDC)		
Zero balance	%FS	±1.0		
Compensated temperature	°C	-10~+40		
Operating temperature	°C	-35~+65		
Excitation, recommended voltage	V	5~12 (DC)		
Excitation maximum	V	18 (DC)		
Safe overload	%FS	150		
Ultimate overload	%FS	300		
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD20 T73°C	II3G Ex nL II C T4

DIMENSIONS IN MM



WIRING



- Adopt shielded, 4 conductor cable: Φ5mm
- Standard cable length: 9m.

B9F

FEATURES

- Stainless steel construction, dual shear beam structure, adhesive sealed, compression loading available.
- Ingress protection (according to EN 60529): IP67
- Suitable for electronic truck scales, hopper scales, track scales and other electronic weighing devices.



AVAILABLE MODELS

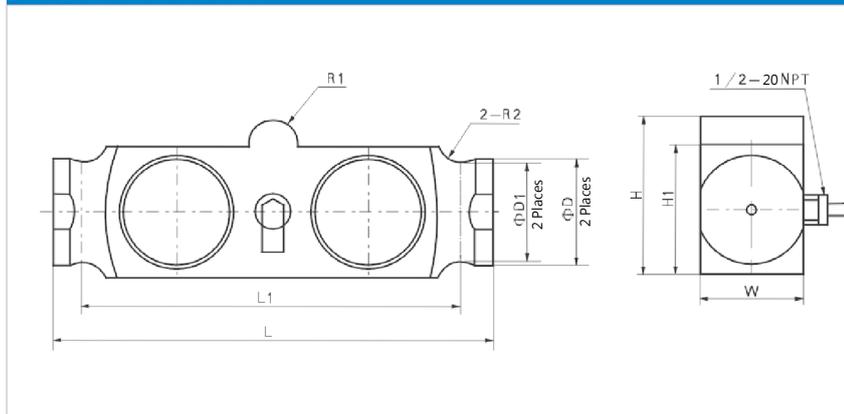
Capacity	Accuracy	Full article description
xxklb	D3	B9F-D3-xxK-9B



SPECIFICATION

Capacity	klb	10/15/20/25/30/40/50/60/75
Accuracy class		D3
Maximum number of load cell intervals (nLC)		3000
Ratio of minimum LC verification interval $Y=E_{max} / V_{min}$		10000
Combined error	%FS	± 0.020
Creep	%FS/30min	± 0.016
Temperature effect on sensitivity	%FS/10°C	± 0.011
Temperature effect on zero	%FS/10°C	± 0.015
Output sensitivity (=FS)	mV/V	3.0 ± 0.003
Input resistance	Ω	700 ± 7
Output resistance	Ω	703 ± 4
Insulation resistance	M Ω	≥ 5000 (50VDC)
Zero balance	%FS	± 1.0
Compensated temperature	°C	-10~+40
Operating temperature	°C	-35~+65
Excitation, recommended voltage	V	5~12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	150
Ultimate overload	%FS	300
ATEX classification (optional)		II1G Ex ia IIC T4 II1D Ex iaD20 T73°C II3G Ex nL II C T4

DIMENSIONS IN MM



Dimension	L	L1	H	H1	W	ΦD	ΦD1	R1	R2
Capacity									
10~25klb	203.2 (8.0)	180.95 (7.12)	58.8 (2.31)	49.28 (1.94)	36.58 (1.44)	Φ25.4 (1.0)	Φ20.32 (0.8)	R9.52 (0.38)	R9.53 (0.37)
40~75klb	215.9 (8.5)	184.15 (7.25)	76.12 (3.0)	62.23 (2.45)	49.53 (1.95)	Φ50.8 (2.0)	Φ44.5 (1.75)	R12.7 (0.5)	R19.05 (0.75)

WIRING

Input(+) Red
 Output(-) White
 Input(-) Black
 Output(+) Green
 Transparent: Shield

- Adopt shielded, 4 conductor cable: Φ5mm
- Standard cable length: 9m

FEATURES

- Stainless steel construction, dual shear beam structure, adhesive sealed, compression loading available.
- Ingress protection (according to EN 60529): IP67
- Suitable for electronic truck scales, hopper scales, track scales and other electronic weighing devices.



AVAILABLE MODELS

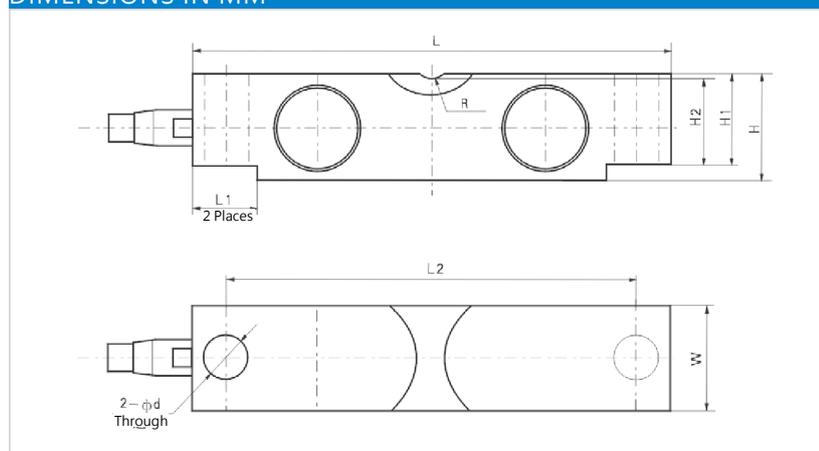
Capacity xxklb	Accuracy C3	Full article description B9N-C3-xxK-9B
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SPECIFICATION

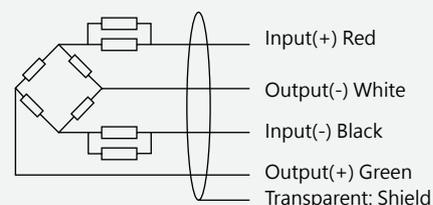
Maximum capacity (E _{max})	klb	10/15/20/25/30/40/50/60/75/100/125
Accuracy class		C3
Maximum number of load cell intervals (nLC)		3000
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$		10000
Combined error	%FS	±0.020
Creep	%FS/30min	±0.016
Temperature effect on sensitivity	%FS/10°C	±0.011
Temperature effect on zero	%FS/10°C	±0.015
Output sensitivity (=FS)	mV/V	3.0±0.003
Input resistance	Ω	700±7
Output resistance	Ω	703±4
Insulation resistance	MΩ	≥ 5000 (50VDC)
Zero balance	%FS	±1.0
Compensated temperature	°C	-10~+40
Operating temperature	°C	-35~+65
Excitation, recommended voltage	V	5~12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	150
Ultimate overload	%FS	300

DIMENSIONS IN MM



Capacity (klb)	Dimension	L	L1	L2	H	H1	H2	Φd	W	R
10~25klb		197 (7.8)	35 (1.4)	165 (6.5)	49.3 (1.9)	43.2 (1.7)	41.4 (1.6)	Φ17.3 (0.7)	43 (1.7)	R19.1 (0.8)
30~40klb		260.4 (10.3)	49 (1.9)	216 (8.5)	62 (2.44)	53.3 (2.1)	50.8 (2.0)	Φ20.6 (0.8)	49.3 (1.9)	R25.4 (1.0)
50~75klb		260.4 (10.3)	49 (1.9)	216 (8.5)	74.7 (2.9)	67.3 (2.65)	64.5 (2.5)	Φ26.9 (1.1)	62 (2.4)	R25.4 (1.0)
100~125klb		387.4 (15.3)	79.5 (3.1)	324 (12.8)	98 (3.9)	87.1 (3.4)	83.8 (3.3)	Φ41.2 (1.6)	73.7 (2.9)	R38.1 (1.5)

WIRING



- Adopt shielded, 4 conductor cable: Φ5mm
- Standard cable length: 9m.

B9H

FEATURES

- Stainless steel construction, dual shear beam structure, adhesive sealed, compression loading available.
- Ingress protection (according to EN 60529): IP67
- Suitable for electronic truck scales, hopper scales, track scales and other electronic weighing devices.



AVAILABLE MODELS

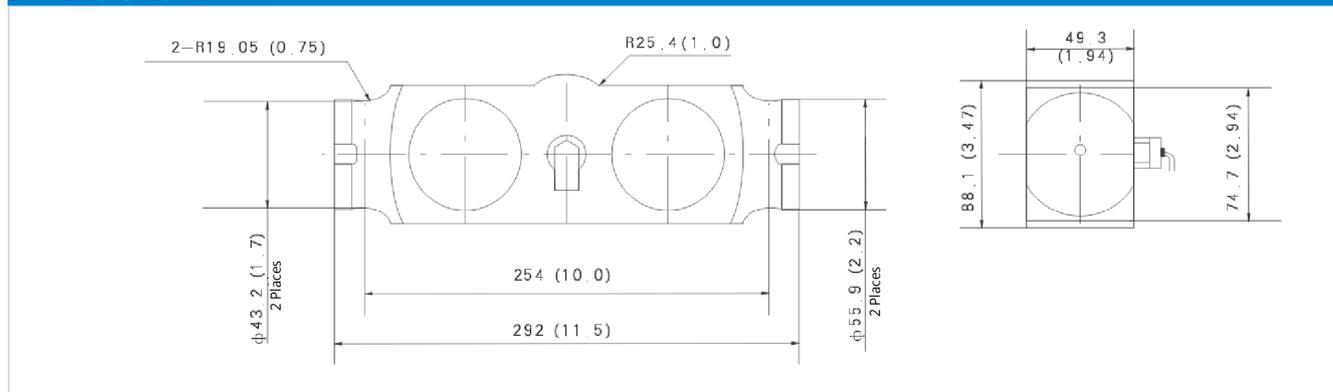
Capacity	Accuracy	Full article description
xxklb	C3	B9H-C3-xxK-9B



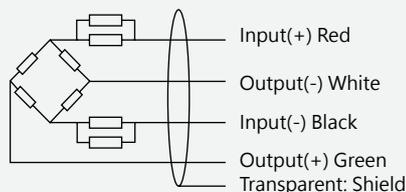
SPECIFICATION

Maximum capacity (E _{max})	klb	50/60/75/100		
Accuracy class		C3		
Maximum number of load cell intervals (nLC)		3000		
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$		10000		
Combined error	%FS	±0.020		
Creep	%FS/30min	±0.016		
Temperature effect on sensitivity	%FS/10°C	±0.011		
Temperature effect on zero	%FS/10°C	±0.015		
Output sensitivity (=FS)	mV/V	3.0±0.003		
Input resistance	Ω	700±7		
Output resistance	Ω	703±4		
Insulation resistance	MΩ	≥ 5000 (50VDC)		
Zero balance	%FS	±1.0		
Compensated temperature	°C	-10~+40		
Operating temperature	°C	-35~+65		
Excitation, recommended voltage	V	5~12 (DC)		
Excitation maximum	V	18 (DC)		
Safe overload	%FS	150		
Ultimate overload	%FS	300		
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD20 T73°C	II3G Ex nL II C T4

DIMENSIONS IN MM



WIRING



- Adopt shielded, 4 conductor cable: φ5mm
- Standard cable length: 9m

FEATURES

- Nickel plated alloy steel IP67 dual shear beam load cell
- High accuracy
- Suitable for truck and track scales and other heavy weighing devices
- Sealed construction



AVAILABLE MODELS

xxklb	C3	B9D-C3-xxK-9B
xxklb	C3/C4/C5/A5M/B10M	H9D-xx-xxK-9B
1.8t-7.5t (4klb-15klb) approved by OIML C4.		
9t-35t (19.8klb-70klb) approved by OIML C5.		
20klb-75klb approved by NTEP A5M/B10M.		

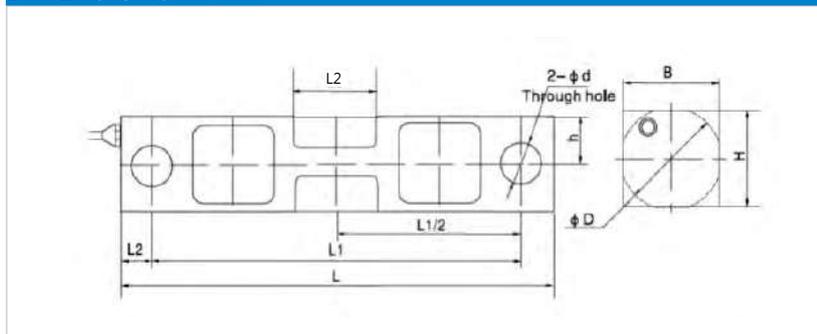


SPECIFICATION

Maximum capacity (E _{max})	klb	1/1.5/2/2.5/4/5/10/15/20/25/35/50/75			
		C3	C4	A5M	B10M
Accuracy class		C3	C4	A5M	B10M
Approvals			OIML R60 C4	III 5000 Multiple	IIIL 10000 Multiple
Maximum number of load cell intervals (nLC)		3000	4000	5000	10000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	14000	15000	10000
Combined error	%FS	±0.020	±0.018	±0.026	±0.050
Creep	%FS/30min	±0.016	±0.012	±0.017	±0.040
Temperature effect on sensitivity	%FS/10°C	±0.011	±0.009	±0.013	±0.040
Temperature effect on zero	%FS/10°C	±0.015	±0.010	±0.014	±0.020
Output sensitivity (=FS)	mV/V	3.0±0.008			
Input resistance	Ω	700±7			
Output resistance	Ω	703±4			
Insulation resistance	MΩ	≥ 5000 (50VDC)			
Zero balance	%FS	±1.0			
Temperature, compensated	°C	-10~+40			
Temperature, operating	°C	-35~+70			
Excitation, recommended voltage	V	5~12 (DC)			
Excitation maximum	V	18 (DC)			
Safe overload	%FS	150			
Ultimate overload	%FS	300			
ATEX classification (optional)		II1G Ex ia II1C T4	II1D Ex iaD20 T73°C	II3G Ex nL II C T4	

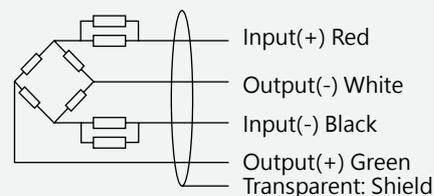
Note: accuracy for B9D is C3, no OIML or NTEP approvals available.

DIMENSIONS IN MM



Dimension Capacity	L	L1	L2	H	h	B	ΦD	Φd
1Klb-5Klb	190.5 (7.5)	158.75 (6.25)	15.9 (0.63)	30.99 (1.22)	16.76 (0.66)	30.99 (1.22)	31.5 (1.24)	12.7 (0.5)
10Klb-35Klb	222.25 (8.75)	190.5 (7.5)	15.9 (0.63)	49.15 (1.94)	24.58 (12.67)	36.45 (1.44)	50.8 (2.0)	20.57 (0.81)
50Klb-75Klb	342.9 (13.5)	292.1 (11.5)	25.4 (1.0)	74.68 (2.94)	37.37 (1.47)	61.98 (2.44)	75.95 (2.99)	33.32 (1.31)

WIRING



- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm.
- Standard cable length: 6m.
- Shield is not connected to element.

H9N

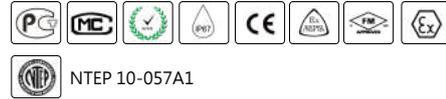
FEATURES

- Alloy steel IP67 dual shear beam load cell
- High accuracy
- Suitable for track and truck scales and other weighing devices



AVAILABLE MODELS

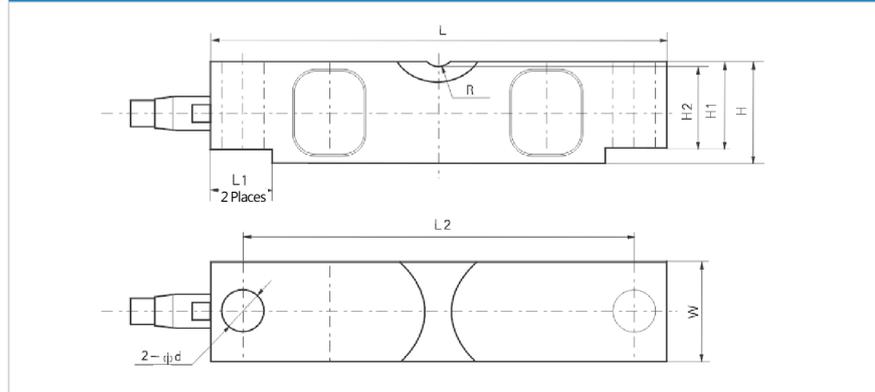
xxklb	A3M/B10M	H9N-xx-xxK-9B
25klb-200klb approved by NTEP A3M/B10M		



SPECIFICATION

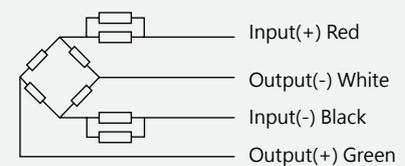
	klb	10/15/20/25/30/40/50/60/75/100/125		
		C3	A3M	B10M
Maximum capacity (E _{max})				
Accuracy class		C3	A3M	B10M
Maximum number of load cell intervals (nLC)		3000	III3000 Multiple	IIIL 10000 Multiple
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	5000	10000
Combined error	%FS	±0.020	±0.030	±0.050
Creep	%FS/30min	±0.016	±0.024	±0.040
Temperature effect on sensitivity	%FS/10°C	±0.011	±0.017	±0.040
Temperature effect on zero	%FS/10°C	±0.015	±0.023	±0.020
Output sensitivity (=FS)	mV/V	3.0±0.003		
Input resistance	Ω	700±7		
Output resistance	Ω	703±4		
Insulation resistance	MΩ	≥ 5000 (50VDC)		
Zero balance	%FS	≤ ±1.0		
Compensated temperature	°C	-10~+40		
Operating temperature	°C	-35~+70		
Excitation, recommended voltage	V	5~12 (DC)		
Excitation maximum	V	18 (DC)		
Safe overload	%FS	150		
Ultimate overload	%FS	300		
ATEX classification (optional)		II1G Ex ia II1C T4	II1D Ex iaD20 T73°C	II3G Ex nL II C T4

DIMENSIONS IN MM



Capacity	Dimension	L	L1	L2	H	H1	H2	Φd	W	R
25klb		197 (7.75)	35 (1.38)	165 (6.5)	49.3 (1.94)	43.2 (1.7)	41.4 (1.63)	Φ17.3 (0.68)	43 (1.7)	R19.1 (0.75)
		260.4 (10.25)	49 (1.93)	216 (8.5)	62 (2.44)	53.3 (2.1)	50.8 (2.0)	Φ20.6 (0.81)	49.3 (1.9)	R25.4 (1.0)
50~75klb		260.4 (10.25)	49 (1.93)	216 (8.5)	74.7 (2.94)	67.3 (2.65)	64.5 (2.54)	Φ26.9 (1.06)	62 (2.44)	R25.4 (1.0)
		387.4 (15.25)	79.5 (3.13)	324 (12.76)	98 (3.86)	87.1 (3.43)	83.8 (3.3)	Φ41.2 (1.62)	73.7 (2.9)	R38.1 (1.5)
150~200klb		489 (19.25)	127.8 (5.03)	387.4 (15.25)	147.3 (5.8)	130.1 (5.12)	112.8 (4.44)	Φ41.2 (1.62)	96.5 (3.8)	R50.8 (2.0)

WIRING



- Shielded, 4 conductor cable.
- Standard cable length: 9m
- Cable type and length for customer's own application are available on request.
- Shield connected to body.

HM-9-410

FEATURES

- Compact construction, easy installation.
- Using under heavy static load or slight dynamic load.

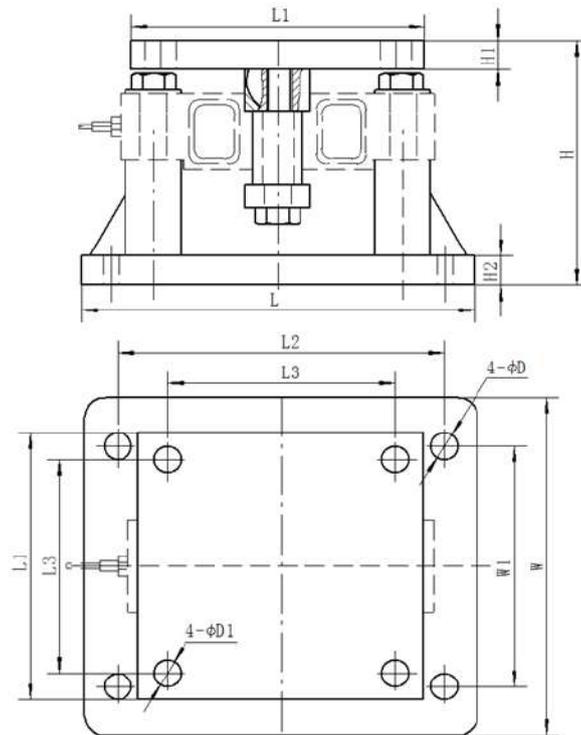
AVAILABLE MODELS

Capacity	Part number
25K	HM-9-410-25K
40K	HM-9-410-40K
50K-75K	HM-9-410-50/75K
100K-125K	HM-9-410-100/125K
150K-200K	HM-9-410-150/200K



Alloy steel, assembled with H9N

OUTLINE DIMENSION MM(INCH)

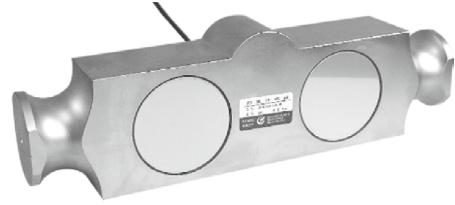


Capacity	Dimension										
	H	H1	H2	L	L1	L2	L3	W	W1	D	D1
25K	165.1 (6.5)	19.05 (0.75)	19.05 (0.75)	254 (10)	203.2 (8)	190.5 (7.5)	152.4 (6)	203.2 (8)	152.4 (6)	20 (0.79)	20 (0.79)
40K	198.1 (7.80)	19.05 (0.75)	25.4 (1)	355.6 (14)	203.2 (8)	292.1 (11.5)	152.4 (6)	254 (10)	190.5 (7.5)	20 (0.79)	28.5 (1.12)
50K-75K	241.3 (9.5)	25.4 (1)	25.4 (1)	355.6 (14)	228.6 (9)	292.1 (11.5)	165.1 (6.5)	254 (10)	190.5 (7.5)	28.5 (1.12)	28.5 (1.12)
100K-125K	287.4 (11.31)	31.75 (1.25)	31.75 (1.25)	506.5 (19.94)	259.1 (10.20)	346.1 (13.63)	180.4 (7.10)	292.1 (11.5)	212.7 (8.37)	33.7 (1.33)	33.7 (1.33)
150K-200K	374.7 (14.75)	38.1 (1.5)	38.1 (1.5)	635 (25)	304.8 (12)	508 (20)	203.2 (8)	406.4 (16)	279.4 (11)	41.5 (1.63)	41.5 (1.63)

H9H

FEATURES

- Alloy steel , nickel plated, dual shear beam structure, adhesive sealed, compression load.
- Ingress protection (according to EN 60529): IP67
- Suitable for electronic truck scales, hopper scales, railway scales and other electronic weighing devices.



AVAILABLE MODELS

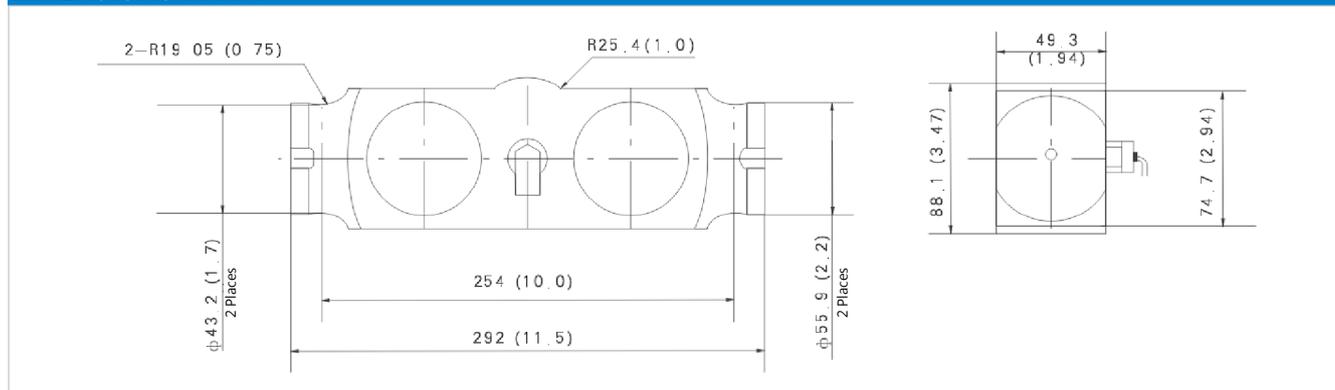
Capacity	Accuracy	Full article description
xxklb	C3	H9H-C3-xxK-9B



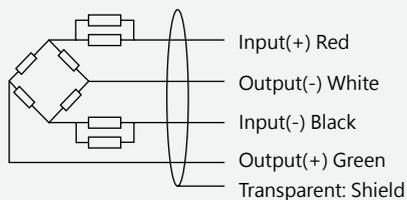
SPECIFICATION

Maximum capacity (E _{max})	klb	50/60/75/100
Accuracy class		C3
Maximum number of load cell intervals (nLC)		3000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000
Combined error	%FS	±0.020
Creep	%FS/30min	±0.016
Temperature effect on sensitivity	%FS/10°C	±0.011
Temperature effect on zero	%FS/10°C	±0.015
Output sensitivity (=FS)	mV/V	3.0±0.003
Input resistance	Ω	700±7
Output resistance	Ω	703±4
Insulation resistance	MΩ	≥ 5000 (50VDC)
Zero balance	%FS	±1.0
Compensated temperature	°C	-10~+40
Operating temperature	°C	-35~+65
Excitation, recommended voltage	V	5~12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	150
Ultimate overload	%FS	300
ATEX classification (optional)		II1G Ex ia IIC T4 II1D Ex iaD20 T73°C II3G Ex nL II C T4

DIMENSIONS IN MM



WIRING



- Adopt shielded, 4 conductor cable: Φ5mm
- Standard cable length: 9m

FEATURES

- Nickel plated alloy steel IP68 dual shear beam load cell
- High accuracy
- Suitable for truck, track, hopper and other electronic weighing devices
- Current calibrated (sc-option)



AVAILABLE MODELS

Capacity	Accuracy	Full article description
10 t	C3	HM9B-C3-10t-16B
20 t	C3	HM9B-C3-20t-16B
25 t	C3	HM9B-C3-25t-16B(-SC)
30 t	C3	HM9B-C3-30t-16B(-SC)
40t LE	C3	HM9B-C3-40t LE-16B
40t	C3	HM9B-C3-40t-16B
50t	C3	HM9B-C3-50t-16B

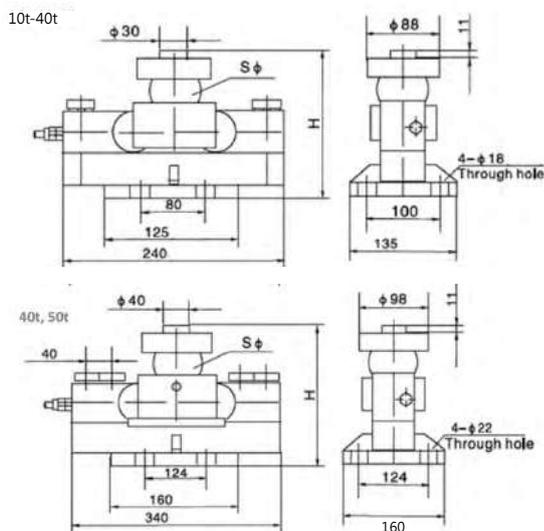


OIML test certificate no. D09-06.08
C of C no. R60/2000-CN1-06.06

SPECIFICATION

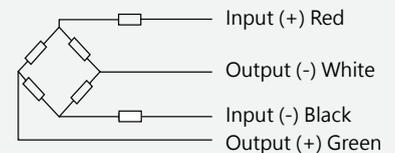
Accuracy class		OIML R60 C3	
Output sensitivity (= FS)	mV/V	2.0 ± 0.002	
Maximum capacity (E _{max})	t	10/20/25	30/40LE/40/50
Maximum number of load cell intervals (nLC)		3000	
Ratio of minimum LC verification interval Y=E _{max} /V _{min}		15000	7500
Combined error	%FS	± 0.023	
Minimum dead load	klb	0	
Safe overload	%FS	150	
Ultimate overload	%FS	300	
Zero balance	%FS	± 1.5	
Excitation, recommended voltage	V	5 ~ 12 (DC)	
Excitation maximum	V	18 (DC)	
Input resistance	Ω	700 ± 7	
Output resistance	Ω	700 ± 7	
Insulation resistance	MΩ	≥ 5000 (50VDC)	
Compensated temperature	°C	-10 ~ +40	
Operating temperature	°C	-35 ~ +65	
Storage temperature	°C	-40 ~ +70	
Element material		Nickel plated alloy steel	
Ingress protection (according to EN 60529)		IP68	
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD 20 T73°C II3G Ex nL IIC T4

DIMENSIONS IN MM



Dimension Capacity	H	ΦS
10t	195 (7.68)	50 (1.97)
20t-40t	225 (8.86)	76 (2.99)
40tLE, 50t	267 (10.51)	82 (3.23)

WIRING



- Shielded, 4 conductor cable.
- Cable diameter: Φ5.5mm.
- Standard cable length: 16m, also available in 12m.
- Shield is not connected to element.

HM9C

FEATURES

- Nickel plated alloy steel IP68 dual shear beam load cell
- High accuracy
- Suitable for truck and track scales and other heavy weighing devices
- Hermetically sealed



AVAILABLE MODELS

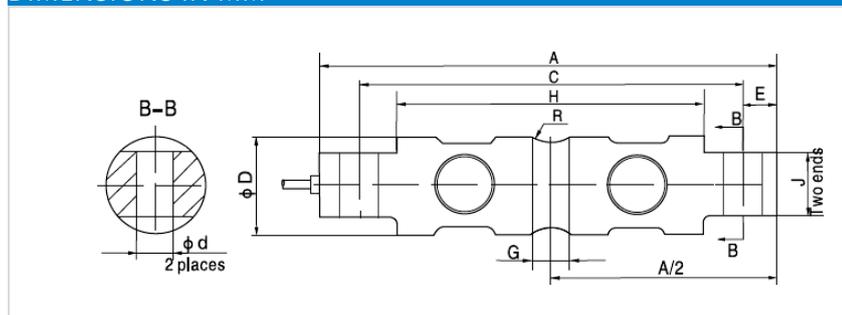
Capacity	Accuracy	Full article description
10 Klb	C3	HM9C-C3-10K-9B
20 Klb	C3	HM9C-C3-20K-9B
30 Klb	C3	HM9C-C3-30K-9B
40 Klb	C3	HM9C-C3-40K-9B
50 Klb	C3	HM9C-C3-50K-9B
60 Klb	C3	HM9C-C3-60K-9B
75 Klb	C3	HM9C-C3-75K-9B



SPECIFICATION

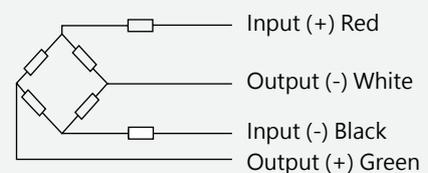
Accuracy class		OIML R60 C3
Output sensitivity (=FS)	mV/V	3.0 ± 0.008
Maximum capacity (E _{max})	klb	10/20/30/40/50/60/75
Maximum number of load cell intervals (nLC)		3000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000
Combined error	%FS	± 0.023
Minimum dead load	klb	0
Safe overload	%FS	150
Ultimate overload	%FS	300
Zero balance	%FS	± 1.0
Excitation, recommended voltage	V	5 ~ 12 (DC)
Excitation maximum	V	18 (DC)
Input resistance	Ω	700 ± 7
Output resistance	Ω	700 ± 7
Insulation resistance	MΩ	≥ 5000 (50VDC)
Compensated temperature	°C	-10 ~ +40
Operating temperature	°C	-35 ~ +65
Storage temperature	°C	-40 ~ +70
Element material		Alloy steel
Ingress protection (according to EN 60529)		IP68
ATEX classification (optional)		II1G Ex ia IIC T4 II1D Ex iaD 20 T73°C II3G Ex nL IIC T4

DIMENSIONS IN MM



Dimension	A	C	H	G	ΦD	J	Φd	R	E
Capacity (klb)									
10	206.2 (8.12)	174.6 (6.88)	133.1 (5.24)	15.7 (0.62)	Φ43.2 (1.7)	28.4 (1.12)	Φ16.7 (0.66)	R12.7 (0.5)	15.7 (0.62)
20	206.2 (8.12)	174.6 (6.88)	133.1 (5.24)	21.3 (0.84)	Φ49.5 (1.95)	28.4 (1.12)	Φ16.7 (0.66)	R12.7 (0.5)	15.7 (0.62)
30-75	260.0 (10.24)	215.9 (8.5)	165.1 (6.5)	25.4 (1.0)	Φ76.2 (3.0)	60.2 (2.37)	Φ26.9 (1.06)	R25.4 (1.0)	22.2 (0.87)

WIRING



- Shielded, 4 conductor cable.
- Φ5mm (5k-20klb) Φ8mm (30k-250klb).
- Standard cable length: 9m
- Cable type and length for customer's own application are available on request.

FEATURES

- Nickel plated alloy steel IP68 dual shear beam load cell
- High accuracy
- Suitable for truck and track scales and other heavy weighing devices
- Hermetically sealed



AVAILABLE MODELS

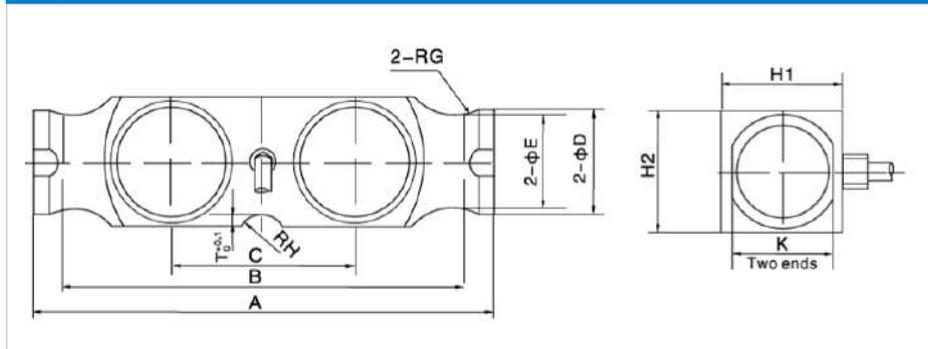
xxklb	C3/A5M/B10M	HM9E-xx-xxK-12B
22t-100t (50klb-200klb) approved by OIML C3.		
50klb-200klb approved by NTEP A5M/B10M.		



SPECIFICATION

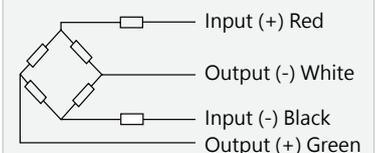
	klb	50/65/100/125/200		
		20/30/45		
Maximum capacity (E _{max})	t	C3	A5M	B10M
Accuracy class		OIML R60 C3	III 5000 Multiple	
Approvals		3000	5000	10000
Maximum number of load cell intervals (nLC)		10000	5000	10000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		±0.020	±0.026	±0.050
Combined error	%FS	±0.016	±0.017	±0.040
Creep	%FS/30min	±0.011	±0.013	±0.040
Temperature effect on sensitivity	%FS/10°C	±0.015	±0.014	±0.020
Temperature effect on zero	%FS/10°C		3.0±0.003	
Output sensitivity (= FS)	mV/V		700±7	
Input resistance	Ω		703±4	
Output resistance	Ω		≥ 5000 (50VDC)	
Insulation resistance	MΩ		±1.0	
Zero balance	%FS		-10~+40	
Compensated temperature	°C		-35~+70	
Operating temperature	°C		5~12 (DC)	
Excitation, recommended voltage	V		18 (DC)	
Excitation maximum	V		150	
Safe overload	%FS		300	
Ultimate overload	%FS			
ATEX classification (optional)		II1G Ex ia II1C T4	II1D Ex iaD20 T73°C	II3G Ex nL II C T4

DIMENSIONS IN MM



Dimension Capacity	A	B	C	ϕD	ϕE	RG	RH	T	H1	H2	K
20t~45t 50klb~125klb	260.5 (10.26)	215.9 (8.5)	101.6 (4.0)	61 (2.40)	52.32 (2.06)	25.4 (1.0)	25.4 (1.0)	7 (0.28)	76 (2.99)	76.2 (3.0)	55.9 (2.2)
200klb	304.8 (12.0)	254 (10.0)	111.8 (4.40)	70 (2.76)	56.69 (2.23)	38.1 (1.5)	38.1 (1.5)	10 (0.39)	86.1 (3.39)	86.36 (3.4)	63.5 (2.5)

WIRING



- Shielded, 4 conductor cable.
- Cable diameter: ϕ8mm.
- Standard cable length: 12m.
- Shield is not connected to element.

H10G2

FEATURES

- Alloy steel, nickel plated, bending plate. Adhesive sealed with compression loading available.
- Ingress protection (according to EN 60529): IP67
- Suitable for on-board weighing scales.



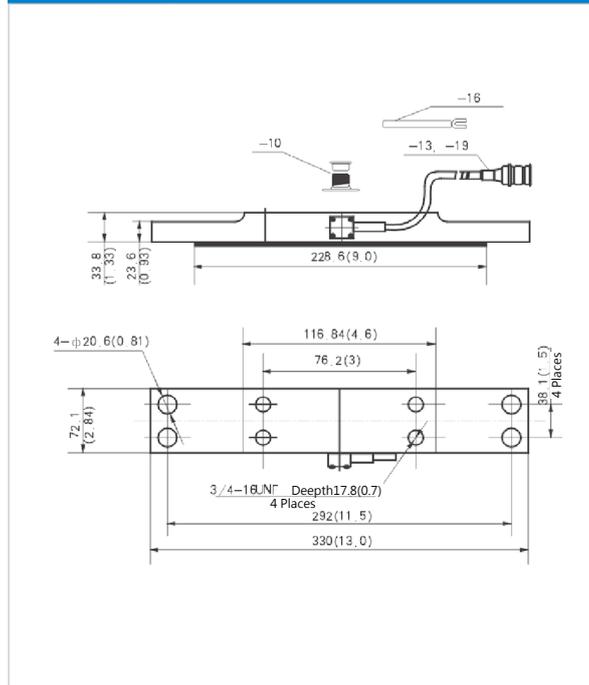
AVAILABLE MODELS

12.5klb	H10G2-12.5K-10
12.5klb	H10G2-12.5K-13
12.5klb	H10G2-12.5K-16
16.5klb	H10G2-16.5K-19

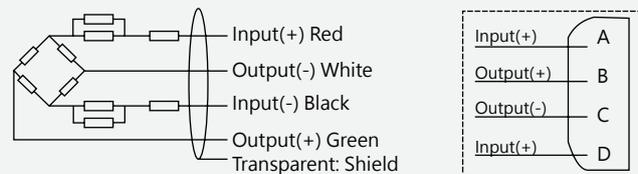
SPECIFICATION

No. for products type		-10/-13/-16	-19
Maximum capacity (E _{max})	klb	12.5K	16.5K
Output sensitivity (=FS)	mV/V	0.500±0.01mV/V (@12.5K)	0.5291±0.01mV/V (@13228lb)
Accuracy class		G10	
Combined error	%FS	±1.0	±1.0
Hysteresis	%FS	±1.0	±1.0
Non-repeatability	%FS	±0.1	±0.1
Creep (20min)	%FS	±0.1	±0.1
Zero balance	%FS	±2.0	±2.0
Compensated temperature	°C	-10~+40	
Operating temperature	°C	-35~+65	
Temperature effect on sensitivity	%FS/10°C	±0.36	
Temperature effect on zero	%FS/10°C	±0.2	
Input resistance	Ω	415±30	
Output resistance	Ω	350±3.5	
Insulation resistance	MΩ	≥ 5000	
Excitation, recommended voltage	V	5~12 (DC)	
Excitation maximum	V	18 (DC)	
Safe overload	%FS	150	
Ultimate overload	%FS	300	

DIMENSIONS IN MM



WIRING



- -10: adopt 4 conductor cable with standard connector.
- -16: adopt 4 conductor cable with square connector. Standard cable length: 10m.
- -13/-19: adopt 4 conductor cable with twin connectors. Standard cable length: 1m.

FEATURES

- Alloy steel , nickel plated, plate bending beam structure, adhesive sealed, compression load.
- Ingress protection (according to EN 60529): IP67
- Suitable for on board weighing.

AVAILABLE MODELS

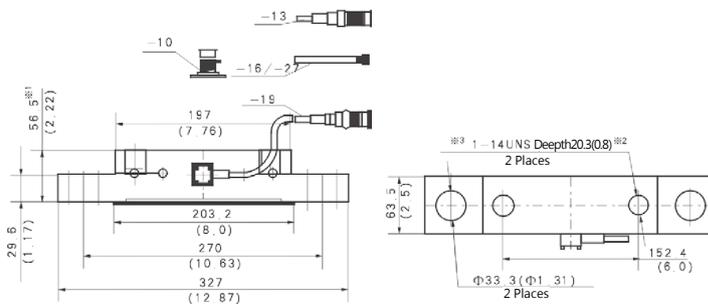
16.5klb	H10J-16.5K-10
16.5klb	H10J-16.5K-13
16.5klb	H10J-16.5K-16
15klb	H10J-15K-19
15t	H10J-15t-30
15t	H10J-15t-31
15t	H10J-15t-40
15t	H10J-15t-41
15t	H10J-15t-42



SPECIFICATION

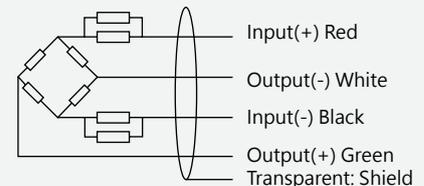
No. of products type		-10/-13	-16	-19	-30/-40/-42	-31/-41
Maximum capacity (E _{max})		16.5klb		15klb	15t	
Output sensitivity (=FS)	mV/V	0.5±0.01 (@12.5K)	-0.5±0.01 (@12.5K)	0.5291±0.01 (@13228lb)	0.50±0.05 (@6t)	0.45±0.05 (@6t)
Combined error	%FS	±1.0				
Non-repeatability	%FS	±0.1				
Creep (20min)	%FS	±0.1				
Zero output	%FS	±2.0				
Compensated temperature	°C	-10~+40				
Operating temperature	°C	-35~+65				
Input resistance	Ω	387±25				
Output resistance	Ω	350±3.5				
Insulation resistance	MΩ	≥ 5000				
Excitation, recommended voltage	V	5~12 (DC)				
Excitation maximum	V	18 (DC)				
Safe overload	%FS	120				
Ultimate overload	%FS	150				
Wiring		-10: adopt standard connector with 7 conductors. 13: adopt connector with 7 wires. Length: 1m.	4 conductor cable with square connector. Length: 10m	4 conductor cable with twin connectors. Length: 1m.	4 conductor cable for -30 and -31, cable length 10m. 4 conductor green cable for -40, -41 and -42, cable length 10m.	

DIMENSIONS IN MM

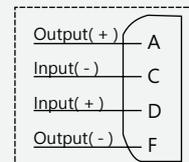


1. 62 (2.44) for H10J-15t-31, H10J-15t-41, H10J-15t-42.
2. 25.4 (1.0) for H10J-15t-31, H10J-15t-41, H10J-15t-42.
3. 1-12UNF for H10J-15t-31, H10J-15t-41.

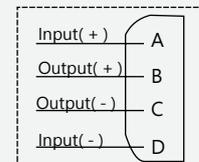
WIRING



(only for -16)



(Adopted for -10, -13 type)



(Adopted for -19 type)

H10Z4

FEATURES

- Alloy steel , nickel plated, plate bending beam structure, adhesive sealed, compression load.
- Ingress protection (according to EN 60529): IP67
- Suitable for on board weighing.



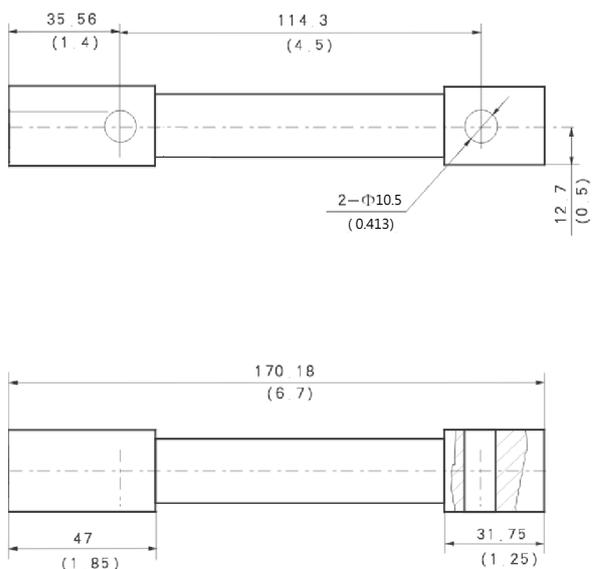
AVAILABLE MODELS

8lb	H10Z4-8
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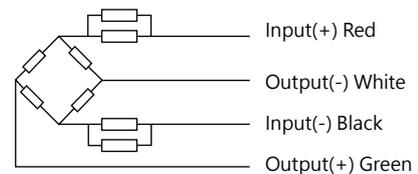
SPECIFICATION

Maximum capacity (E _{max})	lb	8
Output resistance	mV/V	1.8±0.25
Combined error	%FS	±1.0
Creep (20 min)	%FS	±0.1
Zero output	%FS	±2.5
Compensated temperature	°C	-10~ +40
Operating temperature	°C	-35~ +65
Temperature effect on sensitivity	%FS/10°C	±0.05
Input resistance	Ω	350±3.5
Output resistance	Ω	350±3.5
Insulation resistance (50VDC)	MΩ	≥ 5000
Excitation, recommended voltage	V	5~12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	120
Ultimate overload	%FS	150

DIMENSIONS IN MM



WIRING



FEATURES

- Stainless steel IP68 single ended bending beam
- Hermetically sealed
- Suitable for pallet, platform and small hopper scales
- High accuracy
- Current calibrated (sc-option)

AVAILABLE MODELS

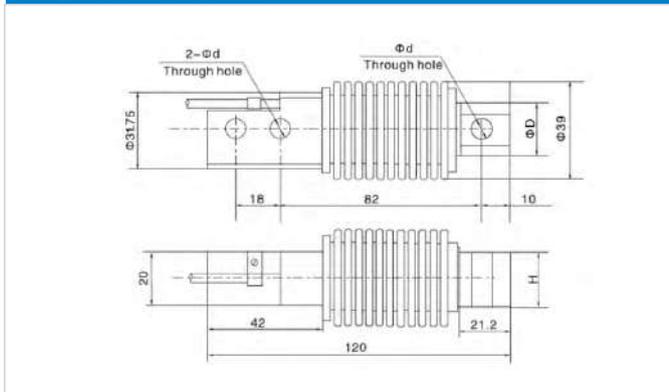
Capacity	Accuracy	Full article description
5 kg	C3 Excluded from OIML	BM11-C3-5kg-3B-SC
10 kg	C3/C4	BM11-C3/C4-10kg-3B-SC
20 kg	C3/C4	BM11-C3/C4-20kg-3B-SC
30 kg	C3/C4	BM11-C3/C4-30kg-3B-SC
50 kg	C3/C4	BM11-C3/C4-50kg-3B-SC
100 kg	C3/C4	BM11-C3/C4-100kg-3B-SC
200 kg	C3/C4	BM11-C3/C4-200kg-3B-SC
250 kg	C3/C4	BM11-C3/C4-250kg-3B-SC
350 kg	C3/C4	BM11-C3/C4-350kg-3B-SC
500kg	C3/C4	BM11-C3/C4-500kg-3B-SC



SPECIFICATION

Accuracy class		C3	OIML R60 C3	OIML R60 C4
Output sensitivity (=FS)	mV/V		2.0 ± 0.02	
Maximum capacity (E _{max})	klb	5	10, 20, 30, 50, 100, 200, 250, 350, 500	
Maximum number of load cell intervals (nLC)		3000	3000	4000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	15000	
Combined error	%FS		± 0.023	± 0.0174
Minimum dead load	%FS		0	
Safe overload	%FS		150	
Ultimate overload	%FS		300	
Zero balance	%FS		± 1.0	
Excitation, recommended voltage	V		5~12 (DC)	
Excitation maximum	V		18 (DC)	
Input resistance	Ω		460 ± 50	
Output resistance	Ω		350 ± 3.5	
Insulation resistance	MΩ		≥ 5000 (50VDC)	
Compensated temperature	°C		-10 ~ +40	
Operating temperature	°C		-35 ~ +65	
Storage temperature	°C		-40 ~ +70	
Element material			Stainless steel	
Ingress protection (according to EN 60529)			IP68	
Recommended torque on fixation	N.m		M8:25	M10:50
ATEX classification (optional)	Operating temperature		°C	
	IIIG Ex ia IIC T4		IIID Ex iaD20 T73°C	IIIG Ex nL IIC T4

DIMENSIONS IN MM



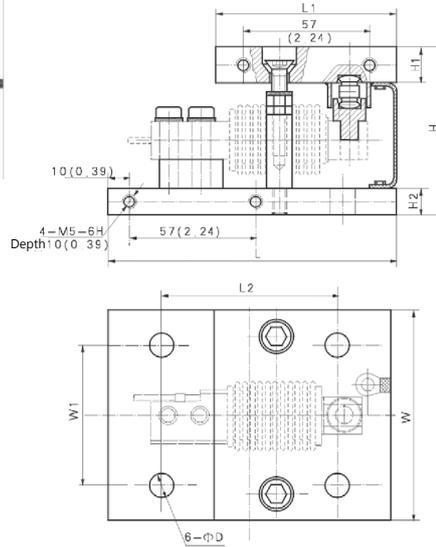
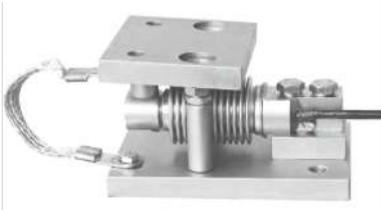
Capacity(kg)	5,10,20,30,50,100,150,200	250,300,350,500
Dimension		
d	8.2 (0.32)	10.3 (0.41)
D	23 (0.91)	24 (0.94)
H	20 (0.79)	19 (0.75)

WIRING

- Shielded, 6 and 4 conductor cable for all capacities.
- Cable diameter: Φ 5mm.
- Standard cable length for 4 conductor cable: 3m and for 6 conductor cable: 6m.
- Shield is not connected to element

BM-11-401

Stainless steel mounting kits, assembled with: BM11



FEATURES

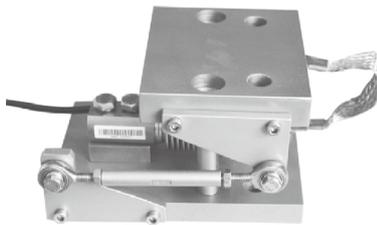
- Compact construction, easy installation
- With anti-reversal ability
- With anti-overloading ability
- With self-aligning ability

Capacity	Part number
5kg-200kg	BM-11-401-5/200kg
250kg-500kg	BM-11-401-250/500kg

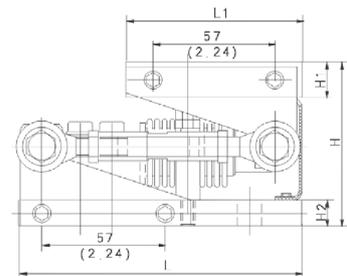
Dimension	5kg-200kg	250kg-500kg
Capacity (klb)		
H	77 (3.03)	90 (3.54)
H1	12 (0.47)	20 (0.79)
H2	12 (0.47)	15 (0.59)
L	130 (5.12)	160 (6.3)
L1	75 (2.95)	100 (3.94)
L2	95 (3.74)	100 (3.94)
W	90 (3.54)	120 (4.72)
W1	60 (2.36)	80 (3.15)
ΦD	Φ9 (0.35)	Φ14 (0.55)

BM-11-402

Stainless steel mounting kits, assembled with: BM11



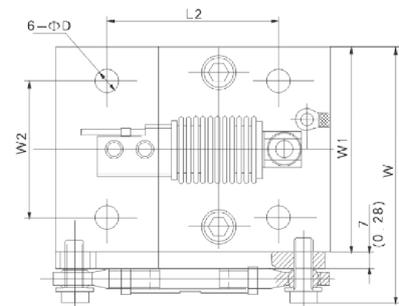
Capacity	Part number
5kg-200kg	BM-11-402-5/200kg
250kg-500kg	BM-11-402-250/500kg



FEATURES

- Compact construction, easy installation
- With anti-reversal ability
- With horizontal locating ability
- With anti-overloading ability
- With self-aligning ability

Dimension	5kg-200kg	250kg-500kg
Capacity (klb)		
H	77 (3.03)	90 (3.54)
H1	12 (0.47)	20 (0.79)
H2	12 (0.47)	15 (0.59)
L	130 (5.12)	160 (6.3)
L1	75 (2.95)	100 (3.94)
L2	95 (3.74)	100 (3.94)
W	90 (3.54)	120 (4.72)
W1	60 (2.36)	80 (3.15)
ΦD	Φ9 (0.35)	Φ14 (0.55)



FEATURES

- Alloy steel, nickel-plated, single point bending beam, hermetically welded, tension or compression.
- Ingress protection (according to EN 60529): IP68
- Suitable for belt scales, hopper scales and other electronic weighing devices.



AVAILABLE MODELS

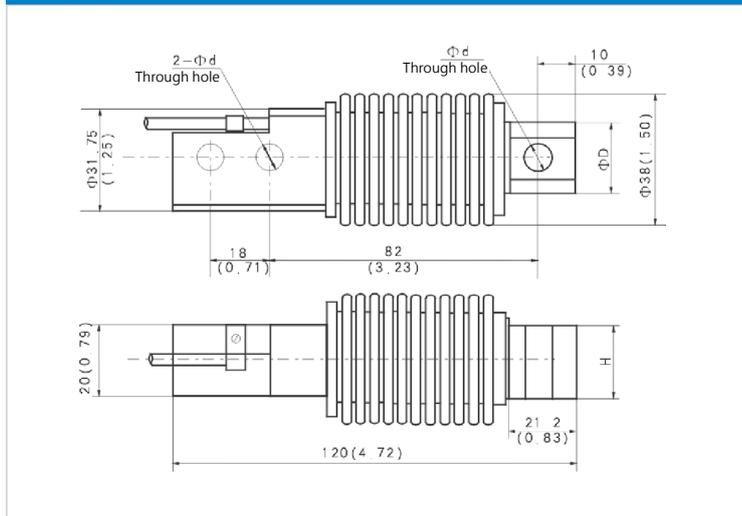
Capacity	Accuracy	Full article description
xxkg	C3	HM11-C3-xxkg-3B
xxkg	C3	HM11-C3-xxkg-6B6



SPECIFICATION

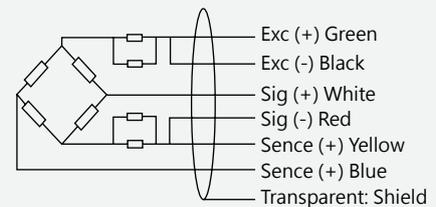
Maximum capacity (E _{max})	kg	5/10/20/30/50/75/100/150/200/250/300/350/400/500
Accuracy class		C3
Maximum number of load cell intervals (n _{LC})		3000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000
Combined error	%FS	±0.020
Creep	%FS/30min	±0.016
Temperature effect on sensitivity	%FS/10°C	±0.011
Temperature effect on zero	%FS/10°C	±0.015
Output sensitivity (=FS)	mV/V	2.0±0.02
Input resistance	Ω	460±50
Output resistance	Ω	350±3.5
Insulation resistance	MΩ	≥ 5000 (50VDC)
Zero balance	%FS	±1.0
Compensated temperature	°C	-10~+40
Operating temperature	°C	-35~+65
Excitation, recommended voltage	V	5~12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	150
Ultimate overload	%FS	300
ATEX Class (Optional)		II1G Ex ia IIC T4 II1D Ex iaD20 T73°C II3G Ex nL II C T4

DIMENSIONS IN MM



Capacity(kg)	5,10,20,30,50,75,100,150,200,250	300,350,400,500
Dimension		
d	8.2 (0.32)	10.3 (0.41)
D	23 (0.91)	24 (0.94)
H	20 (0.79)	19 (0.75)

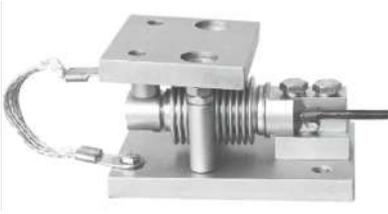
WIRING



- Both 4 and 6 conductor wires are available on customer's requirements.
- Cable diameter: $\Phi 5 \pm 0.2\text{mm}$
- Standard length for 4 conductor cable: 3m
- Standard length for 6 conductor cable: 6m
- Note: Connection of 6 conductor wires are as above. For 4 conductor wires the yellow and blue sense wires are removed.

BM-11-401

Stainless steel mounting kits, assembled with: HM11

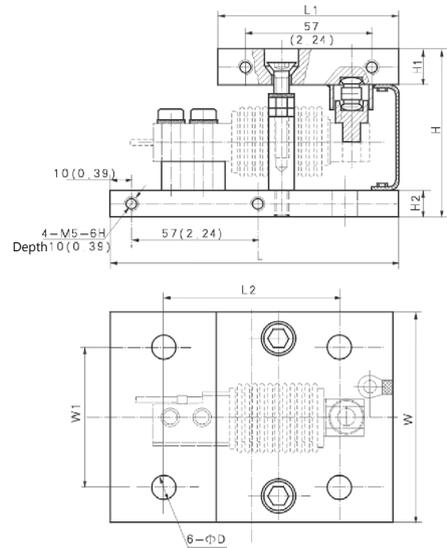


FEATURES

- Compact construction, easy installation
- With anti-reversal ability
- With anti-overloading ability
- With self-aligning ability

Capacity	Part number
5kg-250kg	BM-11-401-5/200kg
300kg-500kg	BM-11-401-250/500kg

Dimension	5kg-200kg	250kg-500kg
Capacity(klb)		
H	77 (3.03)	90 (3.54)
H1	12 (0.47)	20 (0.79)
H2	12 (0.47)	15 (0.59)
L	130 (5.12)	160 (6.3)
L1	75 (2.95)	100 (3.94)
L2	95 (3.74)	100 (3.94)
W	90 (3.54)	120 (4.72)
W1	60 (2.36)	80 (3.15)
ΦD	Φ9 (0.35)	Φ14 (0.55)



BM-11-402

Stainless steel mounting kits, assembled with: HM11

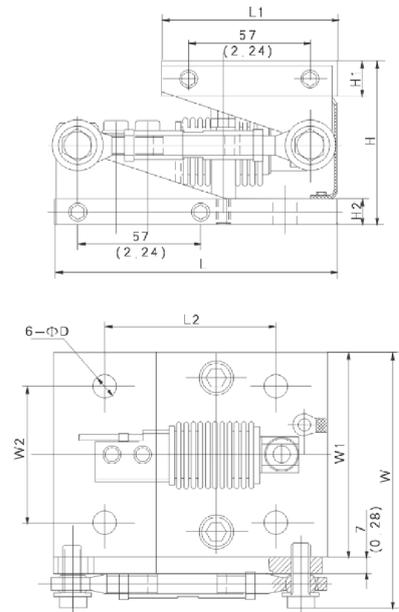


FEATURES

- Compact construction, easy installation
- With anti-reversal ability
- With horizontal locating ability
- With anti-overloading ability
- With self-aligning ability

Capacity	Part number
5kg-250kg	BM-11-402-5/200kg
300kg-500kg	BM-11-402-250/500kg

Dimension	5kg-200kg	250kg-500kg
Capacity(klb)		
H	77 (3.03)	90 (3.54)
H1	12 (0.47)	20 (0.79)
H2	12 (0.47)	15 (0.59)
L	130 (5.12)	160 (6.3)
L1	75 (2.95)	100 (3.94)
L2	95 (3.74)	100 (3.94)
W	90 (3.54)	120 (4.72)
W1	60 (2.36)	80 (3.15)
ΦD	Φ9 (0.35)	Φ14 (0.55)



FEATURES

- Stainless steel IP68 compression load cell
- Hermetically sealed
- Suitable for vehicle and hopper scales and vehicle testing facilities
- Built in surge arrestors
- Current calibrated (sc-option)



AVAILABLE MODELS

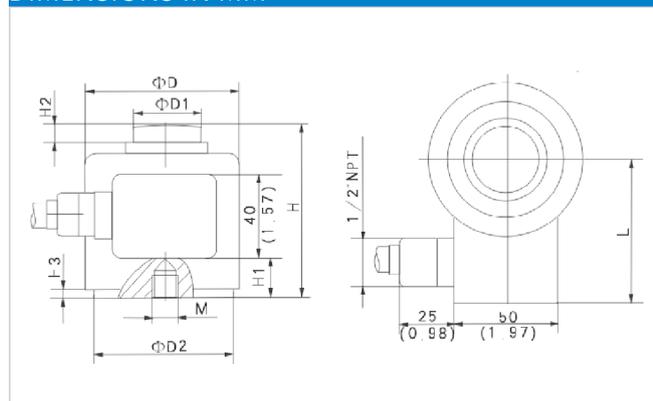
xxt	C3	BM14A-C3-xxt-xB-SC
xxklb	C3	BM14A-C3-xxK-9YB
10t-100t approved by PTB C3.		



SPECIFICATION

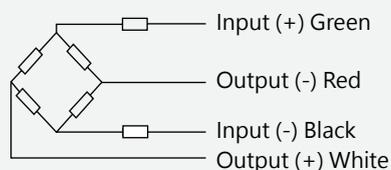
Maximum capacity (E _{max})	t	5/10/25/40/60/100
	klb	10/25/50/100/200/300/500
Accuracy class		C3
Approvals		OIML R60 C3
Maximum number of load cell intervals (nLC)		3000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000
Combined error	%FS	±0.020
Creep	%FS/30min	±0.016
Temperature effect on sensitivity	%FS/10°C	±0.011
Temperature effect on zero	%FS/10°C	±0.015
Output sensitivity (=FS)	mV/V	2.0±0.002
Input resistance	Ω	450±4.5
Output resistance	Ω	480±4.8
Insulation resistance	MΩ	≥ 5000 (50VDC)
Zero balance	%FS	±1.0
Compensated temperature	°C	-10~+40
Operating temperature	°C	-35~+70
Excitation, recommended voltage	V	5~12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	150
Ultimate overload	%FS	300
ATEX classification (optional)		II1G Ex ia II1C T4 II1D Ex iaD20 T73°C II3G Ex nL II C T4

DIMENSIONS IN MM



Capacity	5t, 10t,25t	40t,60t	100t	10klb, 25klb,50klb	100klb	200klb 300klb	500klb
D	73 (2.87)	105 (4.13)	152 (5.98)	73 (2.87)	105 (4.13)	152 (5.98)	163 (6.42)
D1	32 (1.26)	59 (2.32)	80 (3.15)	32 (1.26)	59 (2.32)	80 (3.15)	94 (3.70)
D2	58 (2.28)	83 (3.27)	124 (4.88)	58 (2.28)	83 (3.27)	124 (4.88)	136 (5.35)
H	82.5 (3.25)	127 (5)	184 (7.24)	82.5 (3.25)	127 (5)	184 (7.24)	229 (9.02)
H1	13 (0.51)	33 (1.30)	70 (2.76)	12.5 (0.49)	33 (1.30)	70 (2.76)	91 (3.58)
H2	8 (0.31)	9 (0.35)	23 (0.91)	8 (0.31)	9 (0.35)	23 (0.91)	11 (0.43)
H3	2 (0.08)	12 (0.47)	22 (0.87)	2 (0.08)	12 (0.47)	22 (0.87)	25 (0.984)
L	64 (2.52)	87 (3.43)	109 (4.29)	64 (2.52)	87 (3.43)	109 (4.29)	123 (4.8)
M	M12×1.75	M20×2.5	M20×2.5	1/2-20UNF	3/4-16UNF	3/4-16UNF	3/4-16UNF

WIRING



- Shielded, 4 conductor cable.
- Cable diameter: Φ 7.7mm.
- Standard cable length for 10t: 10m and for all other capacities: 20m.
- Shield is not connected to element

BY-14-101

Stainless steel
Assembled with: BM14A
M8 screw hole is for anti-reversal occasion.

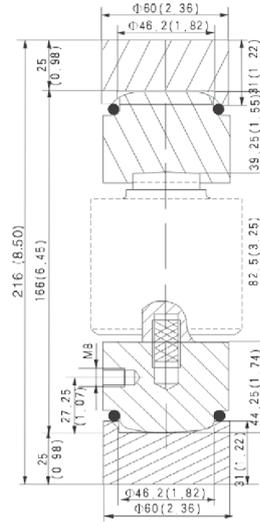


FEATURES

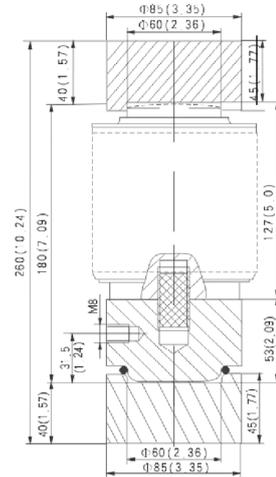
Easy installation, good self-aligning ability, anti-reversal ability.

Capacity	Part number
10t,25t	BY-14-101-10/25t
40t,60t	BY-14-101-40/60t
10klb,25klb,50klb	BY-14-101-10/50K
100klb	BY-14-101-100K

10t ~25t, 10klb~50klb



40t~60t, 100klb



HM-14-409

Alloy steel
Assembled with: BM14A

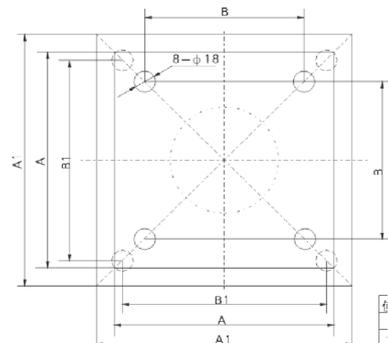
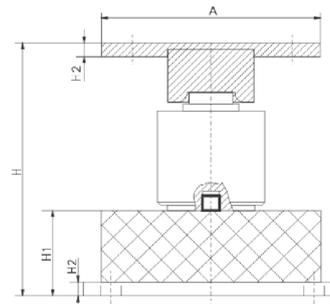


FEATURES

- Compact structure, easy installation.
- Automatic reset function.

Capacity	Part number
10t~25t	HM-14-409-10/25t
40t~60t	HM-14-409-40/60t

Capacity	A	A1	B	B1	H	H1	H2
10t~25t	200 (7.87)	200 (7.87)	150 (5.91)	150 (5.91)	200 (7.87)	53 (2.09)	18 (0.71)
40t~60t	200 (7.87)	225 (8.86)	150 (5.91)	180 (7.09)	240 (9.45)	63 (2.48)	23 (0.91)



FEATURES

- Stainless steel IP68 compression load cell
- Hermetically sealed
- Suitable for vehicle and hopper scales and vehicle testing facilities
- Built in surge arrestors
- High accuracy
- Current calibrated (sc-option)

AVAILABLE MODELS

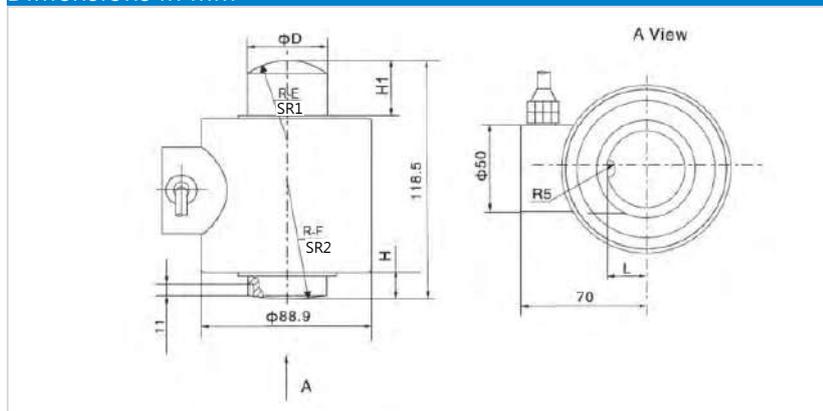
Capacity	Accuracy	Full article description
0.5 t	C3 Excluded from OIML	BM14C-C3-0.5t-15B
1.0 t	C3 Excluded from OIML	BM14C-C3-1.0t-15B
2.0 t	C3 Excluded from OIML	BM14C-C3-2.0t-15B
3.0 t	C3 Excluded from OIML	BM14C-C3-3.0t-15B
5.0 t	C3 Excluded from OIML	BM14C-C3-5.0t-15B
10 t	C3/C4	BM14C-C3/C4-10t-15B
20 t	C3/C4	BM14C-C3/C4-20t-15B
25 t	C3/C4	BM14C-C3/C4-25t-15B
30 t	C3/C4	BM14C-C3/C4-30t-15B
40 t	C3/C4	BM14C-C3/C4-40t-15B
50 t	C3/C4	BM14C-C3/C4-50t-15B



SPECIFICATION

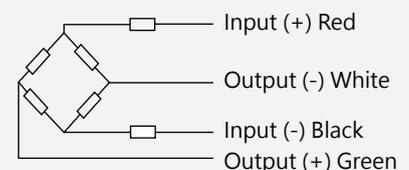
Accuracy class		C3	OIML R60 C3	OIML R60 C4
Output sensitivity (=FS)	mV/V	2.0 ± 0.002		
Maximum capacity (E _{max})	t	0.5/1/2/3/5	10/20/25/30/40/50	
Maximum number of load cell intervals (nLC)			3000	4000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}			10000	15000
Combined error	%FS		± 0.023	± 0.0174
Minimum dead load	%FS		0	
Safe overload	%FS		150	
Ultimate overload	%FS		300	
Zero balance	%FS		± 1.0	
Excitation, recommended voltage	V		5 ~ 12 (DC)	
Excitation maximum	V		18 (DC)	
Input resistance	Ω		700 ± 7	
Output resistance	Ω		703 ± 4	
Insulation resistance	MΩ		≥ 5000 (50VDC)	
Compensated temperature	°C		-10 ~ +40	
Operating temperature	°C		-35 ~ +65	
Element material			Stainless steel	
Ingress protection (according to EN 60529)			IP68	
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD 20 T73°C	II3G Ex nL IIC T4

Dimensions in mm



Dimension Capacity	ΦD	L	SR1	SR2	H	H1
0.5-5t	40 (1.57)	22 (0.87)	25 (0.98)	150 (5.91)	14 (0.55)	31.5 (1.24)
10-30t	40 (1.57)	22 (0.87)	37.5 (1.48)	150 (5.91)	14 (0.55)	31.5 (1.24)
40-50t	50 (1.97)	27 (1.06)	200 (7.87)	200 (7.87)	21 (0.83)	24.5 (0.96)

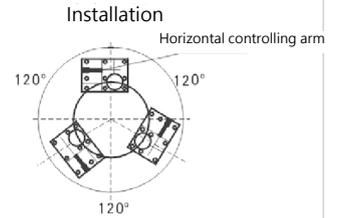
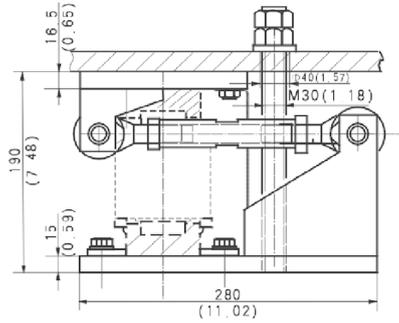
Wiring



- Shielded, 4 conductor cable.
- Cable diameter: Φ5mm
- Standard cable length : 15m
- Shield is not connected to element

HM-14-401

Alloy steel
Assembled with: BM14C, HM14C (without top plate and bottom plate)

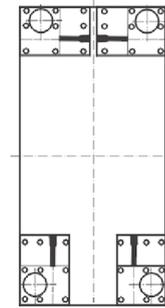
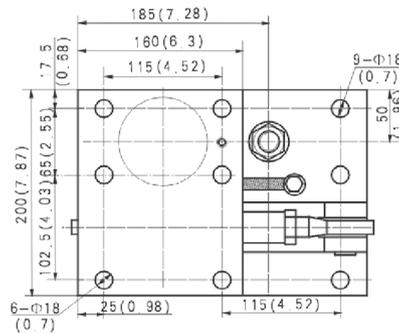


FEATURES

- Compact construction, easy installation
- With anti-reversal ability
- With horizontal locating ability
- With self-aligning ability

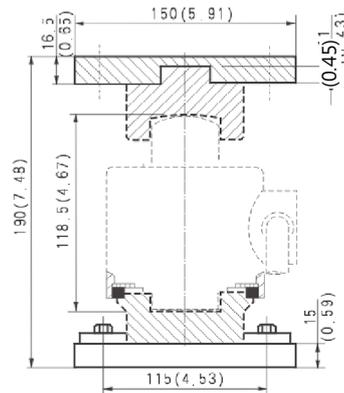
Capacity	Part number
10t-50t	HM-14-401-10/50t

SPECIFICATION	
Ultimate load	150%FS
Max.anti-rotation	50KN
Max.anti-side loading	50KN
Max.horizontal displacement	5.4mm



HM-14-403

Alloy steel
Assembled with: BM14C, HM14C (without top plate and bottom plate)

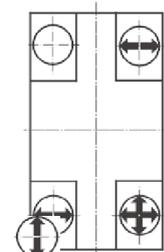
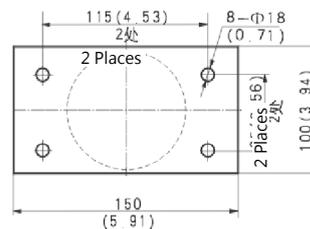


FEATURES

- Compact construction, easy installation
- With self-aligning ability

Capacity	Part number
10t-50t	HM-14-403-10/50t

Optional table		
Part number	Designation	Cutline
HM-14-403-1	Fixed	○
HM-14-403-2	Half-floating	⊕
HM-14-403-3	Floating	⊕



FEATURES

- Stainless steel IP68 compression/tension load cell
- Hermetically sealed
- Suitable for vehicle and hopper scales and vehicle testing facilities
- Built in surge arrestors

AVAILABLE MODELS

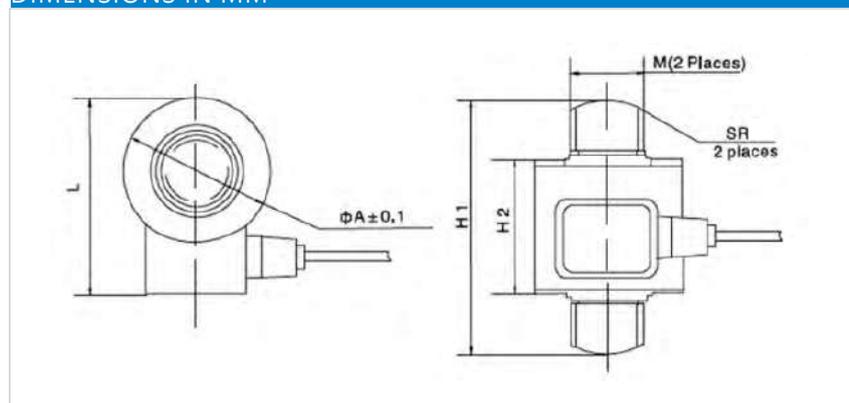
Capacity	Accuracy	Full article description
10 t	C2	BM14D-C2-10t-13B
20 t	C2	BM14D-C2-20t-13B
25 t	C2	BM14D-C2-25t-13B
30 t	C2	BM14D-C2-30t-13B
40 t	C2	BM14D-C2-40t-13B
50 t	C2	BM14D-C2-50t-13B
100 t	C2	BM14D-C2-100t-13B



SPECIFICATION

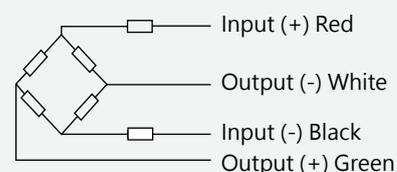
Accuracy class		C2
Output sensitivity (=FS)	mV/V	1.5 ± 0.003
Maximum capacity (E _{max})	t	10/20/25/30/40/50/100
Maximum number of load cell intervals (nLC)		2000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		5000
Combined error	%FS	± 0.030
Minimum dead load	%FS	0
Safe overload	%FS	150
Ultimate overload	%FS	300
Zero balance	%FS	± 1.0
Excitation, recommended voltage	V	5 ~ 12 (DC)
Excitation maximum	V	18 (DC)
Input resistance	Ω	700 ± 7
Output resistance	Ω	703 ± 4
Insulation resistance	MΩ	≥ 5000 (50VDC)
Compensated temperature	°C	-10 ~ +40
Operating temperature	°C	-35 ~ +65
Storage temperature	°C	-40 ~ +70
Element material		Stainless steel
Ingress protection (according to EN 60529)		IP68
ATEX classification (optional)		II1G Ex ia IIC T4 II1D Ex iaD 20 T73°C II3G Ex nL IIC T4

DIMENSIONS IN MM



Dimension	H1	H2	ΦA	L	M	SR
Capacity						
10t~20t	180 (7.08)	69.3 (2.73)	73 (2.87)	99.7 (3.92)	M36×3	200 (7.87)
25t~30t	200 (7.87)	70 (2.75)	88.9 (3.5)	115.6 (4.55)	M42×3	250 (9.84)
40t~60t	250 (9.84)	99.3 (3.91)	105 (4.13)	138.3 (5.44)	M56×4	300 (11.81)
100t	350 (13.7)	131.9 (5.19)	152.4 (4.93)	183.9 (7.14)	M76×4	400 (15.75)

WIRING



- Shielded, 4 conductor cable.
- Cable diameter: Φ7.7mm
- Standard cable length: 13m.
- Shield is not connected to element

BM14G

FEATURES

- Stainless steel IP68 compression load cell
- Hermetically sealed
- Suitable for hopper scales and vehicle testing facilities
- Built in surge arrestors
- Current calibrated (sc-option)



AVAILABLE MODELS

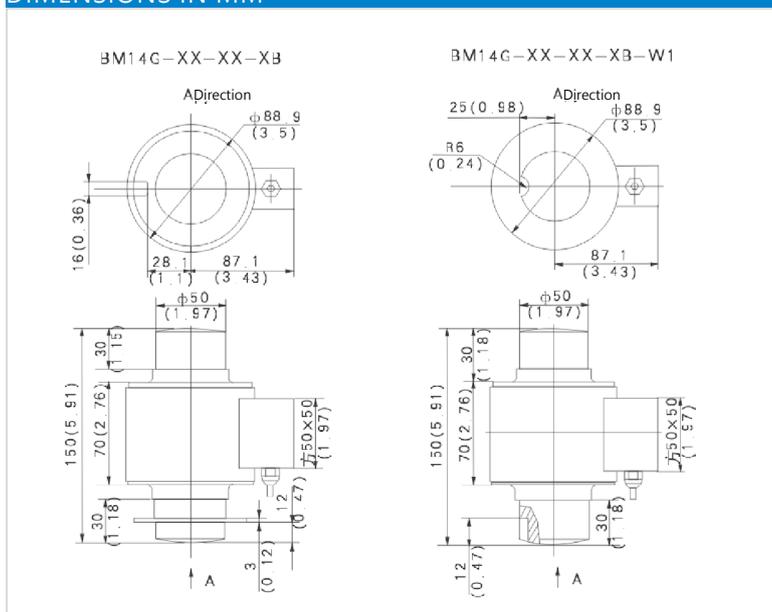
xxt	C3/A5M/B10M	BM14G-xx-xxt-15B-SC
OIML Certificate (10t-50t C3 Class). NTEP A5M/B10M Certificate (10t-50t). SC: output in mv/v/ohm		



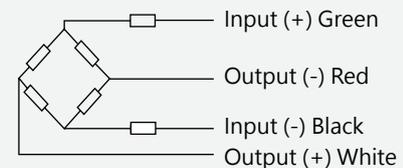
SPECIFICATION

Maximum capacity (E _{max})	t	10/20/30/40/50			
		C3	C4	B10M	A5M
Accuracy class		C3	C4	B10M	A5M
Approvals		OIML R60 C3			
Maximum number of load cell intervals (nLC)		3000	4000	10000	5000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		10000	14000	10000	15000
Combined error	%FS	±0.020	±0.018	±0.05	±0.026
Creep	%FS/30min	±0.016	±0.012	±0.04	±0.017
Temperature effect on sensitivity	%FS/10°C	±0.011	±0.009	±0.04	±0.013
Temperature effect on zero	%FS/10°C	±0.015	±0.010	±0.02	±0.014
Output sensitivity (=FS)	mV/V	2.0±0.02			
Input resistance	Ω	700±7			
Output resistance	Ω	703±4			
Insulation resistance	MΩ	≥ 5000 (50VDC)			
Zero balance	%FS	±1.0			
Compensated temperature	°C	-10~+40			
Operating temperature	°C	-35~+70			
Excitation, recommended voltage	V	5~12 (DC)			
Excitation maximum	V	18 (DC)			
Safe overload	%FS	150			
Ultimate overload	%FS	300			
ATEX classification (optional)		II1G Ex ia II1C T4	II1D Ex iaD20 T73°C	II3G Ex nL II C T4	

DIMENSIONS IN MM



WIRING



- Shielded, 4 conductor cable
- Cable Diameter: Φ5mm
- Standard cable length: 15m
- Shield is not connected to element

Note:

- BM14G-XX-XX-XB type is not suitable for the following countries: UK, France, Germany, Italy, The Netherlands.
- Users can choose different structures of BM14G products, or contact with ZEMIC sales representatives for further products information.

BM14K

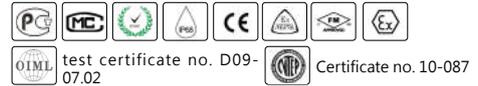
FEATURES

- Stainless steel IP68 compression load cell
- Hermetically sealed
- Suitable for hopper scales and vehicle testing facilities
- Built in surge arrestors



AVAILABLE MODELS

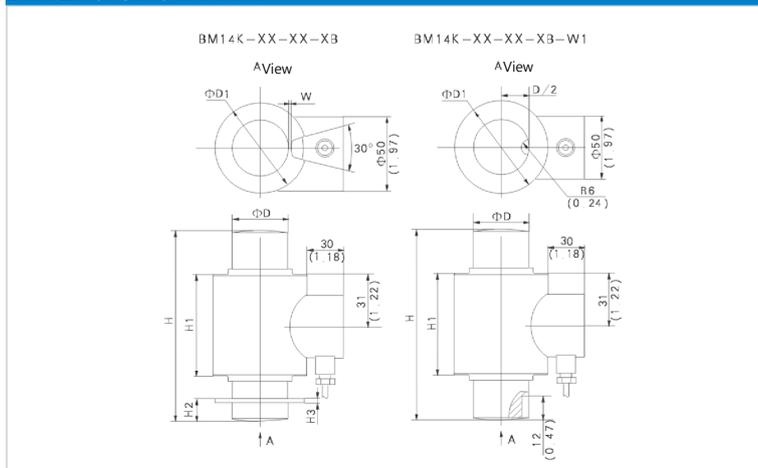
xxt	C3/A5M/B10M	BM14K-xx-xxt-xB6
10t-100t approved by PTB C3. NTEP A5M/B10M Certificate (10t-100t)		



SPECIFICATION

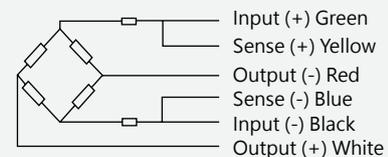
Maximum capacity (E_{max})	t	10/15/20/30/40/50/60/100			
Accuracy class		C3	C4	B10M	A5M
Approvals		OIML R60 C3			
Maximum number of load cell intervals (nLC)		3000	4000	III10000 Multiple	III5000 Multiple
Ratio of minimum LC verification interval $Y = E_{max} / V_{min}$		10000	14000	10000	15000
Combined error	%FS	±0.020	±0.018	±0.05	±0.026
Creep	%FS/30min	±0.016	±0.012	±0.04	±0.017
Temperature effect on sensitivity	%FS/10°C	±0.011	±0.009	±0.04	±0.013
Temperature effect on zero	%FS/10°C	±0.015	±0.010	±0.02	±0.014
Output sensitivity (=FS)	mV/V	2.0±0.002			
Input resistance	Ω	700±7			
Output resistance	Ω	703±4			
Insulation resistance	MΩ	≥ 5000(50VDC)			
Zero balance	%FS	±1.0			
Compensated temperature	°C	-10~+40			
Operating temperature	°C	-35~+70			
Excitation, recommended voltage	V	5~12(DC)			
Excitation maximum	V	18(DC)			
Safe overload	%FS	150			
Ultimate overload	%FS	300			
ATEX classification (optional)		II1G Ex ia II1C T4	II1D Ex iaD20 T73°C	II3G Ex nL II C T4	

DIMENSIONS IN MM



Dimension Capacity	H	H1	ΦD	ΦD1
10t,15t	130(5.12)	80(3.46)	44(1.73)	74(2.91)
20t-40t	150(5.91)	92(3.62)	44(1.73)	74(2.91)
50t,60t	210(8.27)	92(3.62)	44(1.73)	74(2.91)
100t	260(10.24)	121(4.76)	64(2.52)	93(3.66)

WIRING



- Shielded, 6 conductor cable.
- Cable diameter: Φ5.6mm
- Standard cable length for 10t - 30t: 12m, for 30t: 18m and for 40t - 100t: 20m.
- Shield is not connected to element.

Note:

- BM14K-XX-XX-XB type is not suitable for the following countries: UK, France, Germany, Italy, The Netherlands.
- Users can choose different structures of BM14K products, or contact with ZEMIC sales representatives for further products information.

BY-14-109

FEATURES

Easy installation, good self-aligning ability, anti-reversal ability.

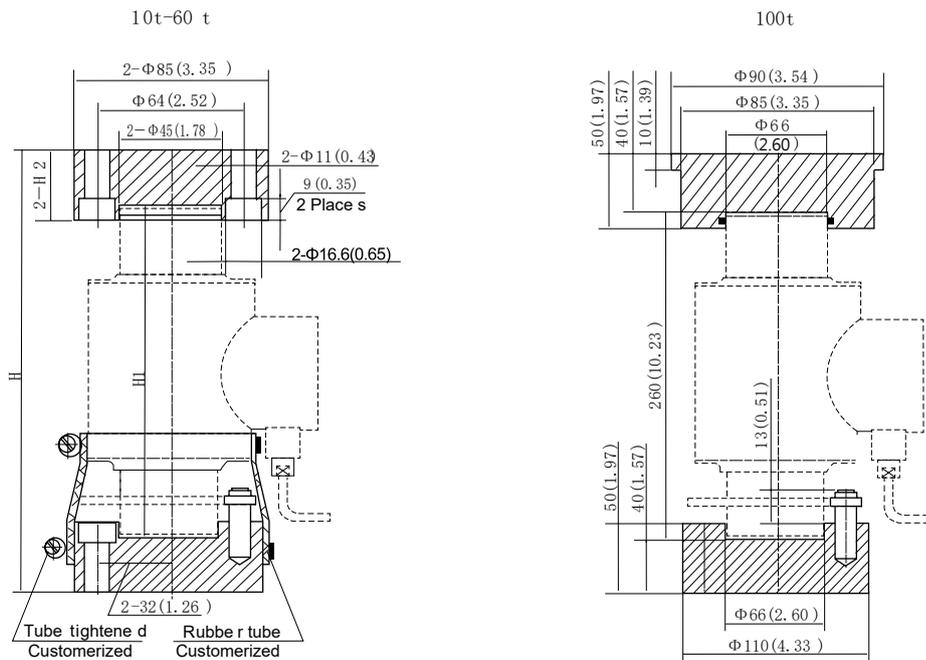
AVAILABLE MODELS

Capacity	Part number
10t,15t	BY-14-109-10/15t
20t-40t	BY-14-109-20/40t
50t,60t	BY-14-109-50/60t
100t	BY-14-109-100t



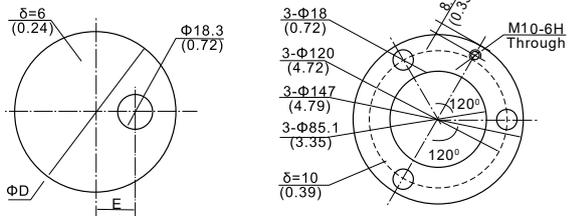
Stainless steel, assembled with: BM14K(-WI)
Locating pin on the bottom plate is for anti-rotation occasion.

DIMENSIONS IN MM



Eccentric washer, Φ165(6.5)
Customized

The locating circle can be offered on requests.



Dimension	10t,15t	20t-40t	50t,60t	100t
Capacity				
H	160(6.3)	200(7.87)	260(10.24)	See pictures
H1	130(5.12)	150(5.91)	210(8.27)	See pictures
H2	22(0.87)	32(1.26)	32(1.26)	See pictures
D	80(3.15)	80(3.15)	80(3.15)	55(2.17)
E	18.9(0.74)	18.9(0.74)	18.9(0.74)	14(0.55)

BY-14-102

FEATURES

- Easy installation, good self-aligning ability, anti-reversal ability.
- Stainless steel construction, anti-corrosion, can be used under hazardous environments.
- Mainly used for platform scales, automobile testing facilities, electronic truck scales and other electronic weighing devices.

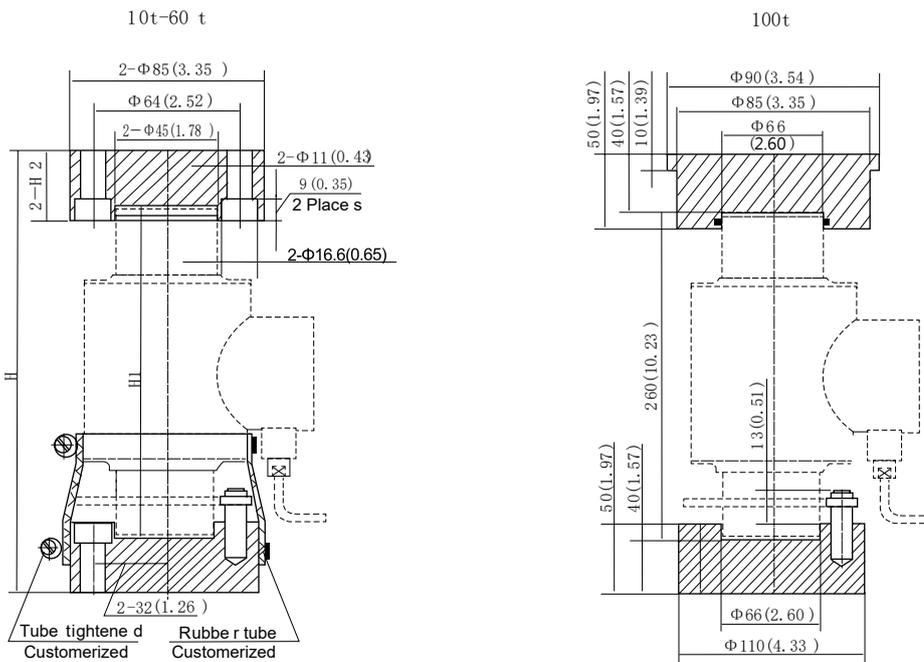


AVAILABLE MODELS

Capacity	Part number
10t,15t	BY-14-102-10/15t
20t-40t	BY-14-102-20/40t
50t,60t	BY-14-102-50/60t
100t	BY-14-102-100t

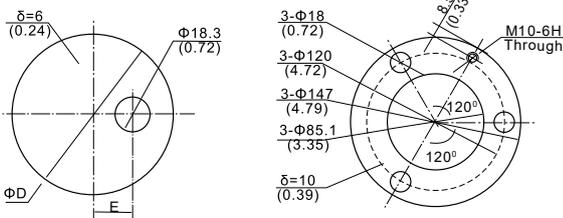
Stainless steel,
Assembled with: BM14K
Locating pin on the bottom plate is for anti-rotation occasion.

Outline Dimension mm(inch)



Eccentric washer, Φ165(6.5)
Customized

The locating circle can
be offered on requests.



Dimension	10t,15t	20t-40t	50t,60t	100t
Capacity				
H	160(6.3)	200(7.87)	260(10.24)	See pictures
H1	130(5.12)	150(5.91)	210(8.27)	See pictures
H2	22(0.87)	32(1.26)	32(1.26)	See pictures
D	80(3.15)	80(3.15)	80(3.15)	55(2.17)
W	18.9(0.74)	18.9(0.74)	18.9(0.74)	14(0.55)

FEATURES

- Nickel plated alloy steel IP68 column shear load cell
- Hermetically sealed
- Suitable for truck, track, hopper and other electronic weighing devices
- High accuracy
- Protected against lightning surges
- Current calibrated (sc option)



AVAILABLE MODELS

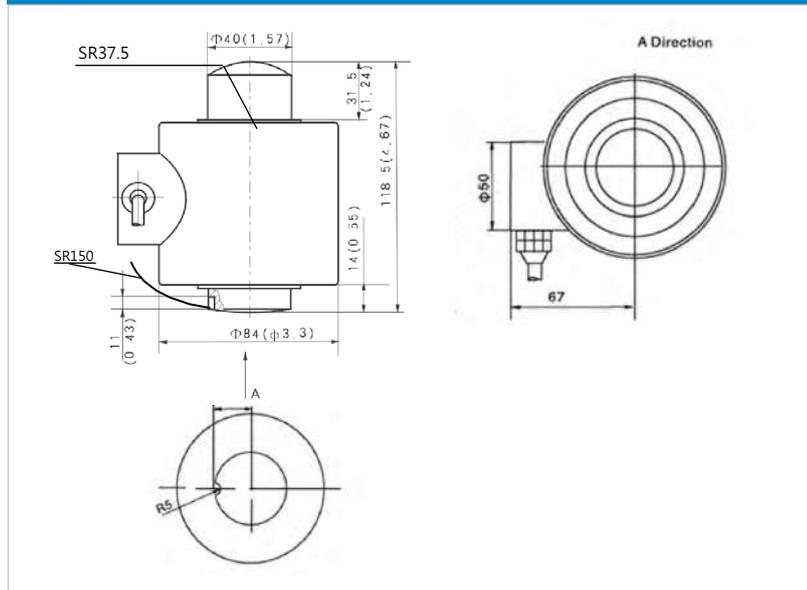
Capacity	Accuracy	Full article description
10t	C3	HM14C-C3-10t-13B6
20t	C3	HM14C-C3-20t-13B6
25t	C3	HM14C-C3-25t-13B6
30t	C3	HM14C-C3-30t-13B6
50t	C3	HM14C-C3-50t-13B6



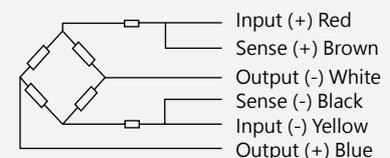
SPECIFICATION

Accuracy class		C3
Output sensitivity (=FS)	mV/V	1.5 ± 0.004
Maximum capacity (E _{max})	t	10/20/25/30/50
Maximum number of load cell intervals (nLC)		3000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		7500
Combined error	%FS	± 0.023
Minimum dead load	t	0
Safe overload	%FS	150
Ultimate overload	%FS	300
Zero balance	%FS	± 1.0
Excitation, recommended voltage	V	5 ~ 12 (DC)
Excitation maximum	V	18 (DC)
Input resistance	Ω	700 ± 7
Output resistance	Ω	703 ± 4
Insulation resistance	MΩ	≥ 5000 (50VDC)
Compensated temperature	°C	-10 ~ +40
Operating temperature	°C	-35 ~ +65
Storage temperature	°C	-40 ~ +70
Element material		Nickel plated alloy steel
Ingress protection (according to EN 60529)		IP68
ATEX classification (optional)		II1G Ex ia IIC T4 II1D Ex iaD 20 T73°C II3G Ex nL IIC T4

DIMENSIONS IN MM



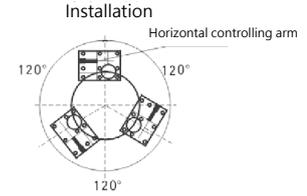
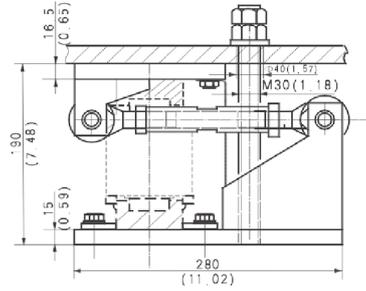
WIRING



- Shielded, 6 conductor cable.
- Cable diameter: Φ6.3mm.
- Standard cable length: 13m.
- Shield is not connected to element.

HM-14-401

Alloy steel Assembled with: BM14C, HM14C (without top plate and bottom plate)

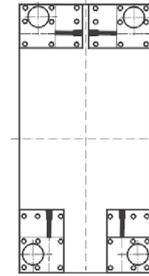
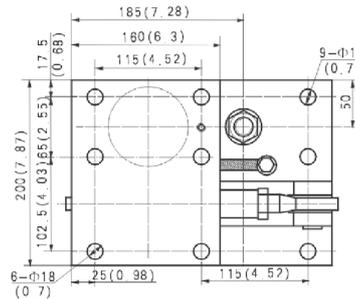


FEATURES

- Compact construction, easy installation
- With anti-reversal ability
- With horizontal locating ability
- With self-aligning ability

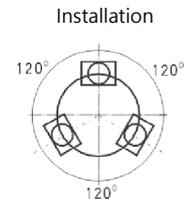
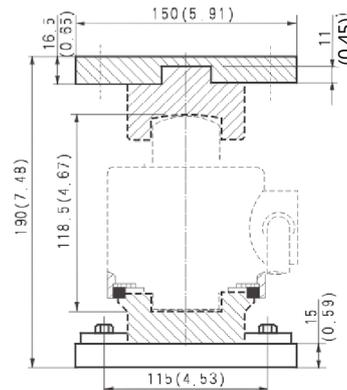
Capacity	Part number
10t-50t	HM-14-401-10/50t

SPECIFICATION	
Ultimate load	150%FS
Max.anti-rotation	50KN
Max.anti-side loading	50KN
Max.horizontal displacement	5.4mm



HM-14-403

Alloy steel Assembled with: BM14C, HM14C (without top plate and bottom plate)

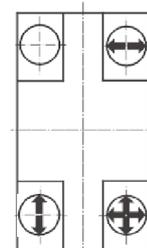
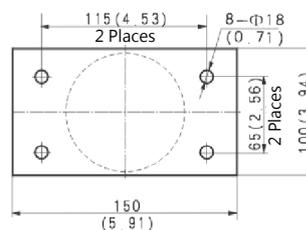


FEATURES

- Compact construction, easy installation
- With self-aligning ability

Capacity	Part number
10t-50t	HM-14-403-10/50t

Optional table		
Part number	Designation	Cutline
HM-14-403-1	Fixed	○
HM-14-403-2	Half-floating	⊕
HM-14-403-3	Floating	⊕



FEATURES

- Tool steel IP66 compression load cell
- Epoxy coated
- Cable suitable for application with higher temperatures up to 130°C
- Low profile
- Double bridge option from 13t and up

AVAILABLE MODELS

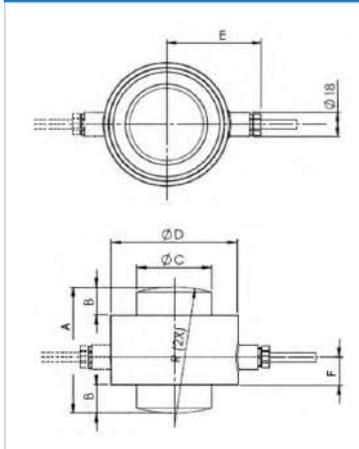
Capacity	Accuracy	Full article description
2.8 t	G1/G2	H14W-G1/G2-2.8t-6B
6 t	G1/G2	H14W-G1/G2-6t-6B
13 t	G1/G2	H14W-G1/G2-13t-6B
28 t	G1/G2	H14W-G1/G2-28t-6B
60 t	G1/G2	H14W-G1/G2-60t-6B
130 t	G1/G2	H14W-G1/G2-130t-6B
280 t	G1/G2	H14W-G1/G2-280t-6B
350 t	G1/G2	H14W-G1/G2-350t-6B
500 t	G1/G2	H14W-G1/G2-500t-6B



SPECIFICATION

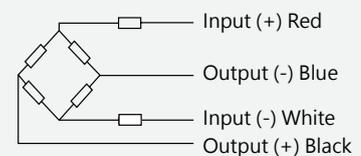
Accuracy class		G1		G2	
Output sensitivity (=FS)	mV/V	1.5 ± 0.008	1.5 ± 0.1	1.5 ± 0.008	1.5 ± 0.1
Maximum capacity (E _{max})	t	2.8/6/13/28/ 60/130/280	350/500	2.8/6/13/28/60/ 130/280	350/500
Combined error	%FS	± 0.100		± 0.200	
Minimum dead load	%FS	0			
Hysteresis	%FS	± 0.050		± 0.100	
Minimum dead load output return	%FS	± 0.050		± 0.070	
Creep error (30 minutes)	%FS	± 0.060		± 0.080	
Creep error (20-30 minutes)	%FS	± 0.015		± 0.020	
Temperature effect on Minimum dead load output	%FS/10°C	± 0.05		± 0.05	
Temperature effect on output	%FS/10°C	± 0.5		± 0.5	
Safe overload	%FS	150			
Ultimate overload	%FS	300			
Zero balance	%FS	± 1.5			
Excitation, recommended voltage	V	5 ~ 12 (DC)			
Excitation maximum	V	15 (DC)			
Input resistance	Ω	275 ± 5 (760 ± 7 for 350t and 500t)			
Output resistance	Ω	245 ± 0.2 (700 ± 3.5 for 350t and 500t)			
Insulation resistance	MΩ	≥ 5000 (50VDC)			
Compensated temperature	°C	-10 ~ +40			
Operating temperature	°C	-35 ~ +65			
Storage temperature	°C	-40 ~ +70			
Element material		Tool steel painted			
Ingress protection (according to EN 60529)		IP68			
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD 20 T73°C	II3G Ex nL IIC T4	

DIMENSIONS IN MM



Dimension Capacity	A	B	ΦC	ΦD	E	F	R
2.8t, 6t	56 (2.20)	8 (0.31)	16.7 (0.66)	45 (1.77)	40.5 (1.59)	20 (0.79)	50 (1.97)
13t	68 (2.68)	12 (0.47)	24.5 (0.96)	55 (2.17)	45.5 (1.79)	20 (0.79)	66 (2.60)
28t	74 (2.91)	14 (0.55)	36 (1.42)	64 (2.52)	50 (1.97)	20 (0.79)	72 (2.83)
60t	90 (3.54)	20 (0.79)	52.7 (2.07)	90 (3.54)	63 (2.48)	20 (0.79)	100 (3.94)
130t	116 (4.57)	26 (1.02)	77.5 (3.05)	121 (4.76)	78.5 (3.09)	20 (0.79)	125 (4.92)
280t	170 (6.69)	45 (1.77)	114 (4.49)	165 (6.50)	100.5 (3.96)	20 (0.79)	183 (7.20)
350t	240 (9.45)	40 (1.57)	132 (5.20)	202 (7.95)	127 (5.0)	50 (1.97)	325 (12.80)
500t	275 (10.83)	47 (1.85)	155 (6.10)	236 (9.29)	144 (5.67)	50 (1.97)	450 (17.72)

WIRING

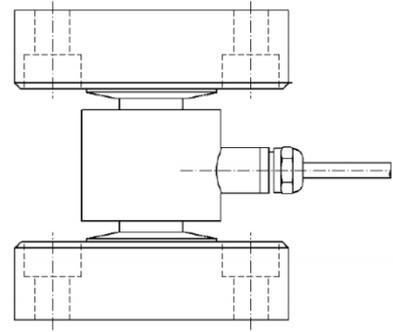


- Shielded, 4 conductor cable.
- Cable diameter: Φ6mm.
- Standard cable length for 2.8t - 6t: 6m, for 13t - 60t: 15m and for 130t - 500t: 20m.
- Shield is not connected to element.

HY-14-147

FEATURES

- Assembled with load cell H14W
- Alloy steel construction
- Built-in horizontal movement control
- Easy load cell (re)placement after mount installation
- Good self-aligning ability ,anti-reversal



SPECIFICATION

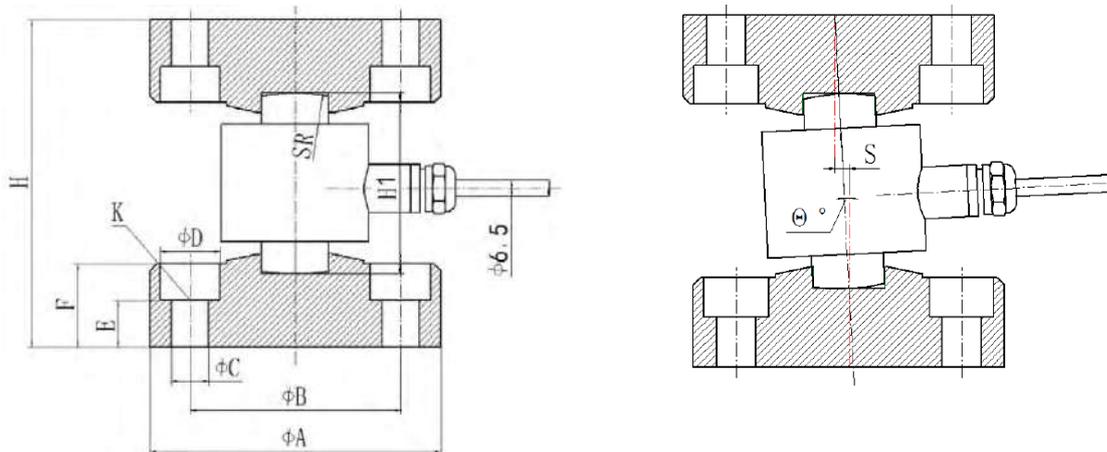
Capacity	SR	H1	Θ_{max} 1)	S max 2)	FR (% of applied load) 3)	
					at S max	at S=1mm
2.8t / 6t	50	56	5°	4.9	6.8%	1.39%
13	66	68	5°	5.9	8.2%	1.38%
28	72	74	5°	6.5	8.2%	1.26%
60	100	90	5°	7.8	10.6%	1.35%
130t	125	116	3°	6.1	6.0%	0.99%
280t	183	170	3°	8.9	6.0%	0.67%

1) Θ_{max} : Maximum .permissible skewing

2) S max: Maximum horizontal movement

3) FR: Maximum horizontal force

DIMENSIONS IN MM



Dimension Capacity	ΦA	ΦB	ΦC	ΦD	E	F	K	H
2.8t, 6t	$\Phi 87$	$\Phi 63$	$\Phi 11$	$\Phi 18$	14	25	Two drilled holes 180°	100
13t	$\Phi 97$	$\Phi 73$	$\Phi 11$	$\Phi 18$	21	32		120
28t	$\Phi 108$	$\Phi 84$	$\Phi 11$	-	-	28		136
60t	$\Phi 137$	$\Phi 112$	$\Phi 11$	-	-	42	Four drilled holes 90°	174
130t	$\Phi 176$	$\Phi 148$	$\Phi 11$	-	-	52	Four drilled holes 90°	220
280t	$\Phi 226$	$\Phi 190$	$\Phi 14$	-	-	65		300

FEATURES

- Alloy steel, nickel-plated, column structure, hermetically welded.
- Ingress protection (according to EN 60529): IP68
- Lightning protection up to 10,000V, suitable for truck scales, platform scales, hopper scales and other electronic weighing devices.



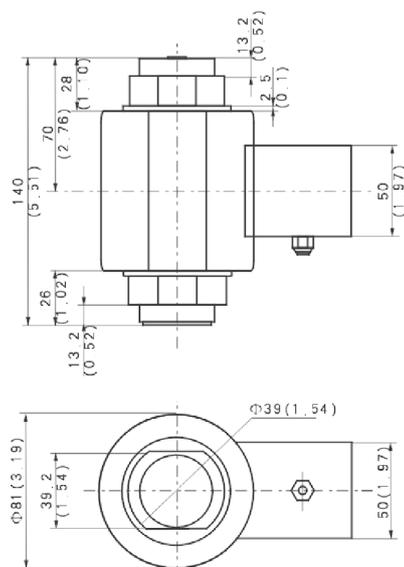
AVAILABLE MODELS

Capacity	Accuracy	Full article description
30t	C3	HM14L-C3-30t-15B
40t	C3	HM14L-C3-40t-15B

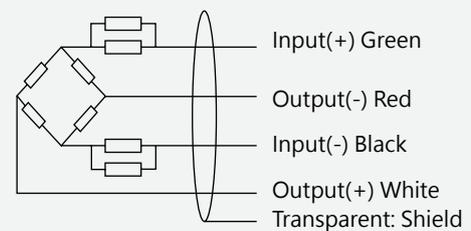
SPECIFICATION

Maximum capacity (E _{max})	t	30/40
Output sensitivity (=FS)	mV/V	2.0±0.002
Accuracy class		C3
Combined error	%FS	±0.02
Hysteresis	%FS	±0.02
Non-repeatability	%FS	±0.011
Creep	%FS/30min	±0.016
Zero output	%FS	±1.0
Compensated temperature	°C	-10~+40
Operating temperature	°C	-35~+65
Temperature effect on sensitivity	%FS/10°C	±0.011
Temperature effect on zero	%FS/10°C	±0.015
Input resistance	Ω	1150±3
Output resistance	Ω	1000±3.5
Insulation resistance	MΩ	≥ 5000 (50VDC)
Excitation, recommended voltage	V	5~12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	150
Ultimate overload	%FS	300

DIMENSIONS IN MM



WIRING



- Adopt shielded, 4 conductor cable: Φ5mm
- Standard cable length: 15m.

HM14H1

FEATURES

- Alloy steel,hermetically welded, oil-proof,waterproof and anti-corrosion, suitable for all kinds of environments;
- Column structure, anti-reversal design, good, self-aligning ability, suitable for electronic platform scales, automobile testing facilities, hopper scales and other electronic weighing devices.



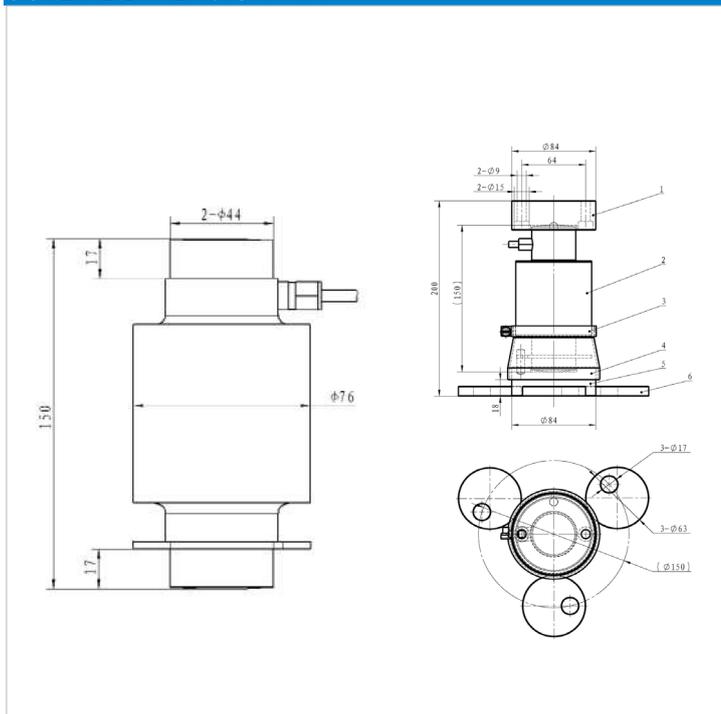
R60/2000-NL1-12.46 TC8228 Revision 0



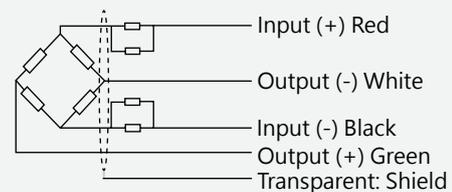
SPECIFICATION

	t	10/15/20/25/30/40/50/60
Maximum capacity (E _{max})		C3
Accuracy class		3000
Maximum number of load cell intervals (nLC)		10000
Ratio of minimum LC verification interval Y=E _{max} / V _{min}		
Combined error	%FS	±0.020
Creep	%FS/30 _{min}	±0.016
Temperature effect on sensitivity	%FS/10°C	±0.011
Temperature effect on zero	%FS/10°C	±0.015
Output sensitivity (=FS)	mV/V	2.0±0.002
Input resistance	Ω	700±7
Output resistance	Ω	703±4
Insulation resistance	MΩ	≥ 5000 (50VDC)
Zero balance	%FS	±1.0
Compensated temperature	°C	-10~+40
Operating temperature	°C	-35~+65
Excitation, recommended voltage	V	5~12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	150
Ultimate overload	%FS	300
Ingress protection (according to EN 60529)		IP68

OUTLINE DIMENSION MM



WIRING



- Cable diameter: Φ5.0±0.2mm 4 wires;
- Standard cable length: 15m.

Part No.	1	2	3	4	5	6
Name	Upper Button	Load Cell	Tube Clip	Dust Cover	Bottom Button	Excentric washers
Qty	1	1	1	1	1	3

Instruction:

1. The drawing contain load cell HM14H1 and it's accessory HY-14-146;
2. Adjust Part No.4 to insure the distance of 18;make sure that Part No.3 be horizontal and fastened;
3. Adjust Part No.6 according to the circle diameter of the bottom button.

FEATURES

- Aluminum, surface anodized, with shield cover, anti-corrosion.
- Integral structure, easy installation.
- Suitable for pedal and break measurement.

AVAILABLE MODELS

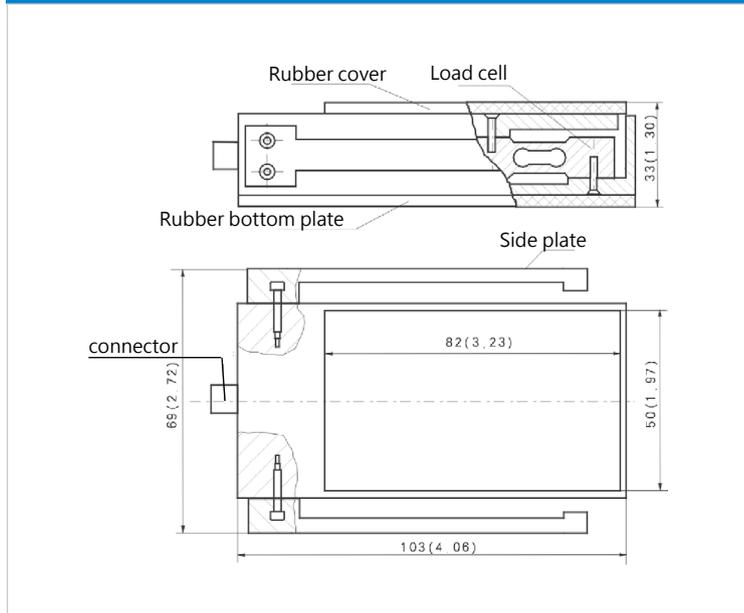
Capacity	Accuracy	Full article description
100kg	G1	L16A-G1-100kg-6J



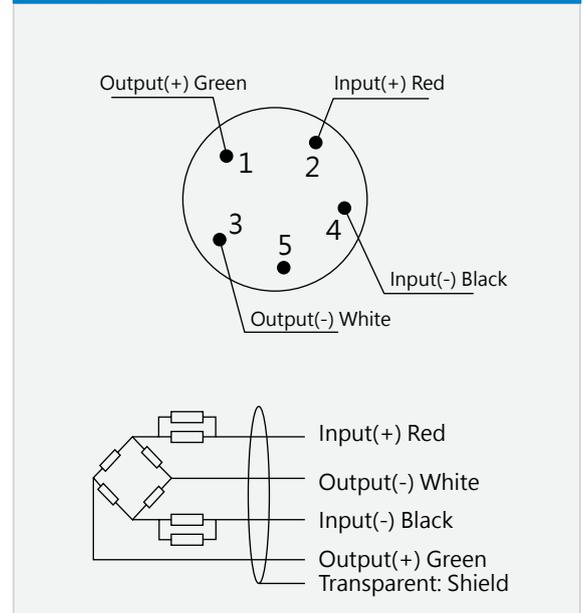
SPECIFICATION

Maximum capacity (E_{max})	kg	100
Output sensitivity (=FS)	mV/V	1.5 ± 0.2
Accuracy class		G1
Combined error	%FS	± 0.1
Creep	%FS/30min	± 0.05
Temperature effect on sensitivity	%FS/10°C	± 0.1
Temperature effect on zero	%FS/10°C	± 0.1
Zero balance	%FS	± 2
Compensated temperature	°C	-10~ +40
Operating temperature	°C	-35~ +65
Input resistance	Ω	744 ± 6
Output resistance	Ω	700 ± 7
Insulation resistance	M Ω	≥ 5000 (50VDC)
Excitation, recommended voltage	V	5~12 (DC)
Excitation maximum	V	18 (DC)
Safe overload	%FS	120
Ultimate overload	%FS	150
Ingress protection (according to EN 60529)		IP66
Cable SPECIFICATION	mm	$\phi 3.8$
Cable Length	m	6

DIMENSIONS IN MM



WIRING



BM24L3

FEATURES

- Stainless steel, hermetically welded and high accuracy.
- Ingress protection (according to EN 60529): IP68
- Suitable for wheel-axle recognition and other compression force measuring devices.

AVAILABLE MODELS

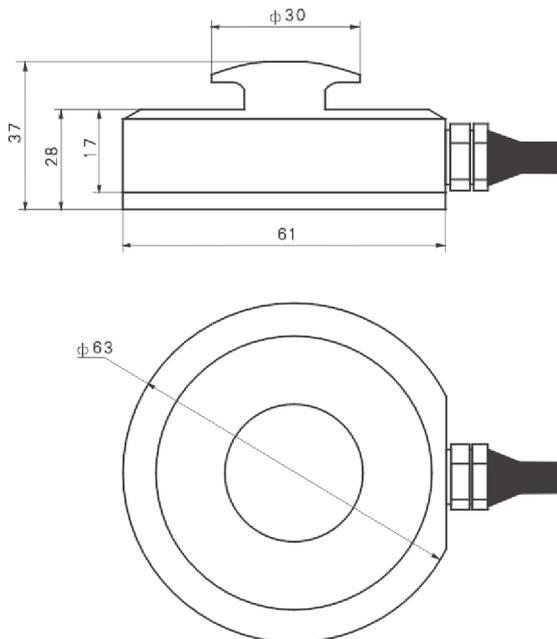
Capacity	Accuracy	Full article description
2t	G5	BM24L3-G5-2t-6J



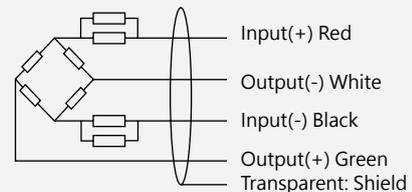
SPECIFICATION

Output sensitivity (=FS)	mV/V	2.0 ± 0.01
Combined error	%FS	0.5
Minimum dead load	%FS	±0.0174
Safe overload	%FS	150
Ultimate overload	%FS	300
Zero balance	%FS	±1.0
Excitation, recommended voltage	V	10 (DC)
Excitation maximum	V	15 (DC)
Input resistance	Ω	700±7
Output resistance	Ω	700±5
Insulation resistance	MΩ	≥ 5000 (50VDC)
Compensated temperature	°C	-10 ~ +40
Operating temperature	°C	-35 ~ +65
Element material		Stainless steel
Ingress protection (according to EN 60529)		IP68
Recommended torque on fixation	N.m	M4:40

DIMENSIONS IN MM



WIRING



FEATURES

- High quality alloy steel, nickel plated, high accuracy, good auto-stability
- Ingress protection (according to EN 60529): IP68
- Suitable for wheel-axle recognition and other compression force measuring devices.
- OIML Test certificate No: TC7968Revision 0
- OIML certificate No: R60/2000-NL1-11.20
- NTEP certificate No: CC07-020A1



AVAILABLE MODELS

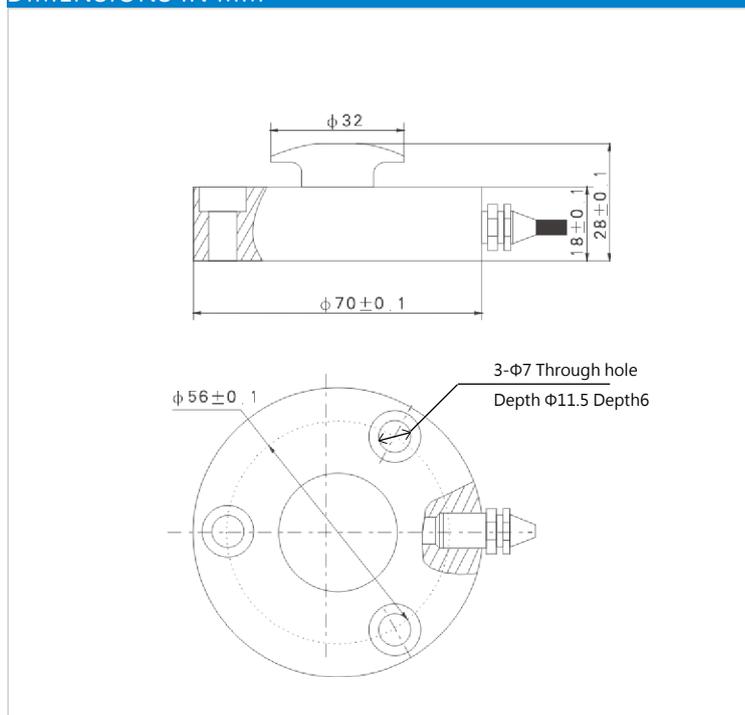
Capacity	Accuracy	Full article description
1t-2t	G5	HM24L-G5-xxt-7T-S1
3t	G5	HM24L-G5-3t-7T-S1



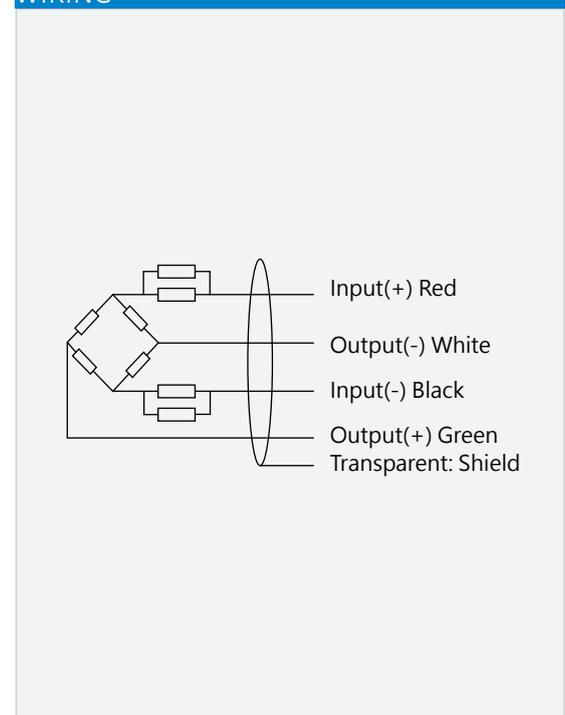
SPECIFICATION

Accuracy class		G5
Output sensitivity (=FS)	mV/V	1.0±0.01
Maximum capacity (E _{max})	t	1/ 2/ 3
Combined error	%FS	±0.5
Minimum dead load	%FS	0
Safe overload	%FS	150
Ultimate overload	%FS	300
Zero output	%FS	± 1.0
Excitation, recommended voltage	V	10 (DC)
Excitation maximum	V	15 (DC)
Input resistance	Ω	350±5
Output resistance	Ω	350 ± 5
Insulation resistance	MΩ	≥ 5000 (50VDC)
Compensated temperature	°C	-10 ~ +40
Operating temperature	°C	-35 ~ +65
Element material		Stainless steel
Ingress protection (according to EN 60529)		IP68
Recommended torque on fixation	N.m	M7:40

DIMENSIONS IN MM



WIRING



BM24R

- Stainless steel IP68 low profile load cell
- Hermetically sealed
- Suitable for hopper, platform and pallet scales
- Integrated static overload protection up to 13t



BM24R
60kg - 280kg

BM24R
250kg - 13t

BM24R
28t - 60t

AVAILABLE MODELS

Capacity	Accuracy	Full article description
60 kg	C3/C4/C5	BM24R -60kg -C3/C4/C5 -3G
130 kg	C3/C4/C5	BM24R -130kg -C3/C4/C5 -3G
280 kg	C3/C4/C5	BM24R -280kg -C3/C4/C5 -3G
250 kg	C3/C4/C5	BM24R -250kg -C3/C4/C5 -3G
500 kg	C3/C4/C5	BM24R -500kg -C3/C4/C5 -3G
1 t	C3/C4/C5	BM24R -1t -C3/C4/C5 -3G
2 t	C3/C4/C5	BM24R -2t -C3/C4/C5 -6G
3.5 t	C3/C4/C5	BM24R -3.5t -C3/C4/C5 -6G
5 t	C3/C4/C5	BM24R -5t -C3/C4/C5 -6G
10 t	C3/C4/C5	BM24R -10t -C3/C4/C5 -15G
13 t	C3/C4/C5	BM24R -13t -C3/C4/C5 -15G
28 t	C3/C4/C5	BM24R -28t -C3/C4/C5 -15G
60 t	C3/C4/C5	BM24R -60t -C3/C4/C5 -15G



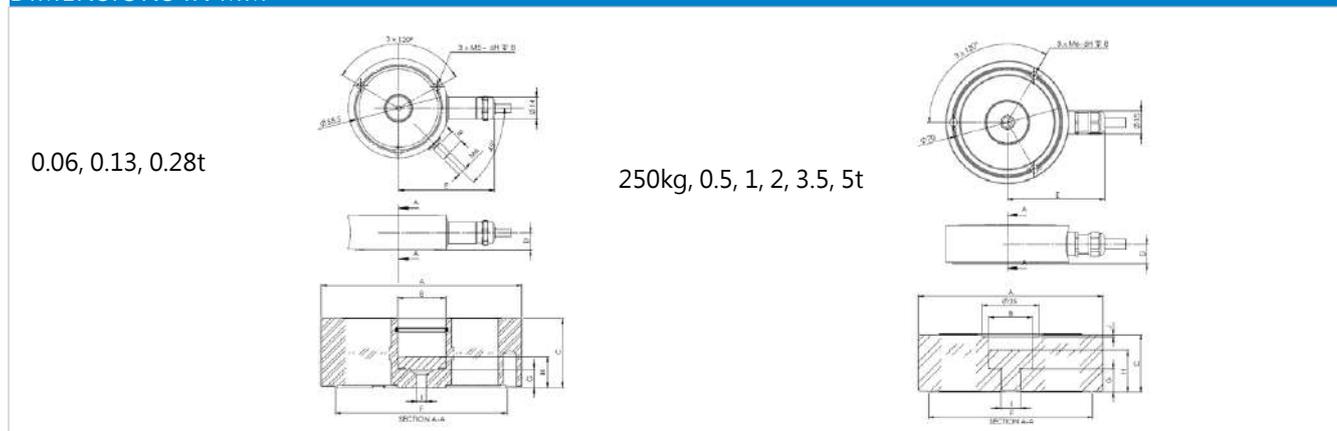
OIML test certificate no. TC7865 Revision 1
C of C no R60/2000-NL1-11.21

NIP Certificate no. 11-103A1

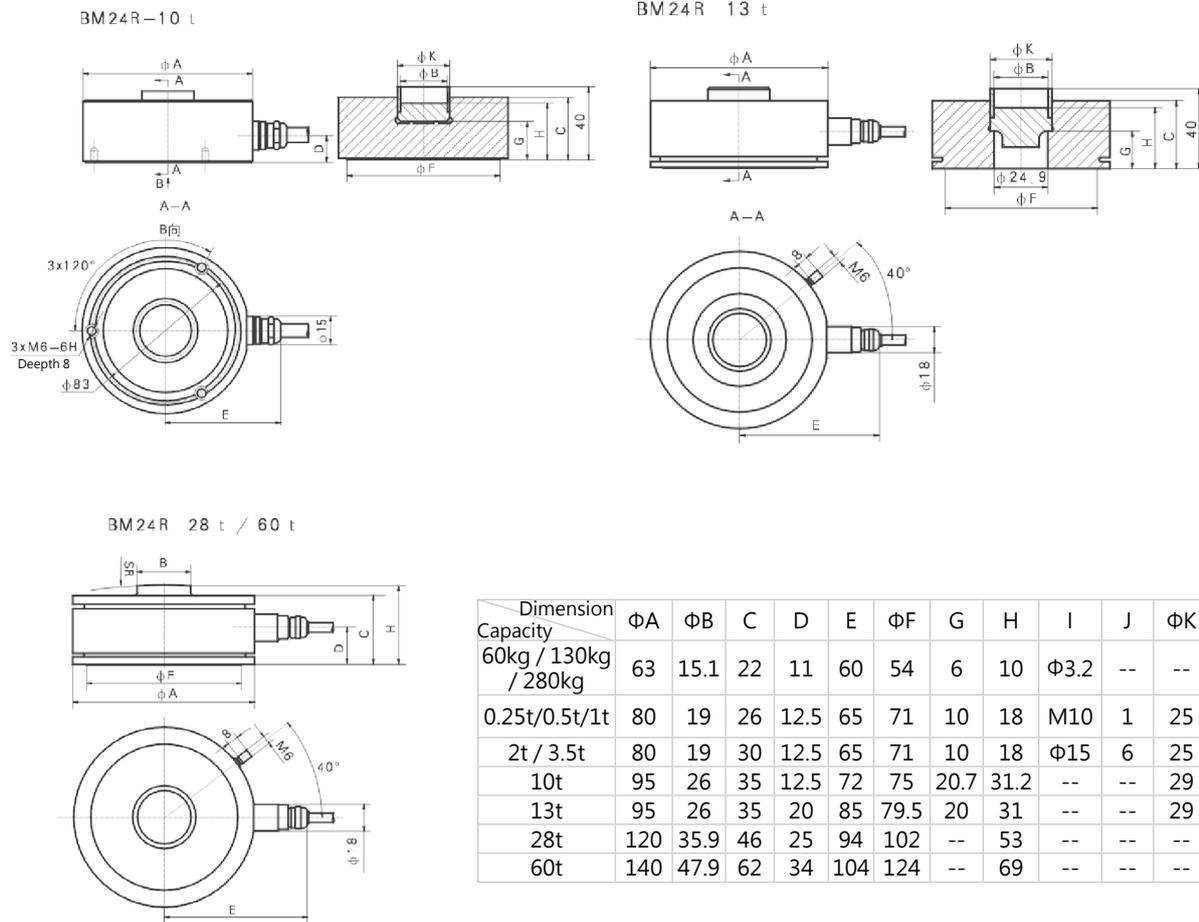
SPECIFICATION

Accuracy class		OIML R60 C3 / OIML R60 C4 / OIML R60 C5						
Output sensitivity (= FS)	mV/V	1±0.01	1.75±0.1	2.0±0.1	2.0±0.1	2.0±0.1	2.0±0.1	2.0±0.1
Maximum capacity (Emax)	t	0.06/0.13/0.28	0.25	0.5/1/ 2/3.5/5/10	13	28	60	
Maximum number of load cell intervals (nLC)		C3=3000, C4=4000, C5=5000						
Ratio of minimum LC verification interval Y=Emax / Vmin		C3=10000, C4 and C5=16000						
Combined error	%FS	C3=±0.0230, C4=±0.0174, C5=±0.0140						
Minimum dead load	%FS	0						
Safe overload	%FS	150						
Safe sideload	%FS	75						
Zero balance	%FS	± 1.0						
Excitation, recommended voltage	V	10 ~ 15 (DC)						
Excitation maximum	V	30 (DC)						
Input resistance	Ω	1260 ±100	1100 ±100	1100 ±100	1200 ±100	1075 ±100	1350 ±200	
Output resistance	Ω	1020 ± 0.5	1025 ± 25	1025 ± 25	1000 ± 0.5	930 ± 0.5	1175 ± 0.5	
Insulation resistance	MΩ	≥ 5000 (50VDC)						
Compensated temperature	°C	-10 ~ +40						
Operating temperature	°C	-35 ~ +65						
Temperature range, storage	°C	-40 ~ +70						
Element material		Stainless steel						
Ingress protection (according to EN 60529)		IP68						
Recommended torque on fixation	N.m	M5: 3.5 M6:10						
ATEX classification (optional)		II1G Ex ia IIC T4 Ga, II1D Ex ia IIIC T73°C, II3G Ex ic IIC T4 Gc, II3G Ex nA IIC T4 Gc, II3D Ex tc IIIC T63°C Dc						

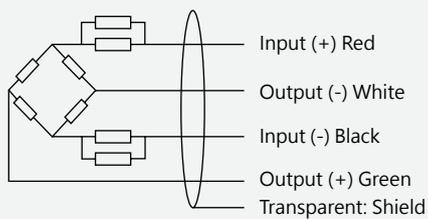
DIMENSIONS IN MM



OUTLINE DIMENSION MM (INCH)



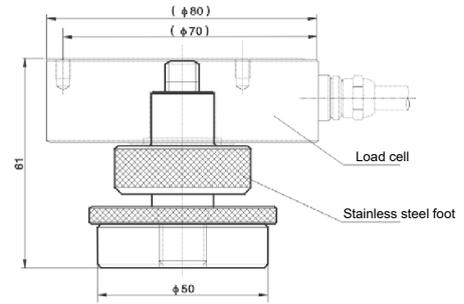
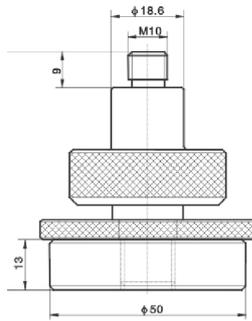
WIRING



- Adopt shielded, 4 conductor cable: $\Phi 6.2 \pm 0.1 \text{mm}$

Capacity	Standard cable length (m)
60Kg	3
130Kg	
250Kg	
280Kg	
500Kg	
1t	6
2t	
3.5t	
5t	15
10t	
13t	
28t	
60t	

BJ-24-202

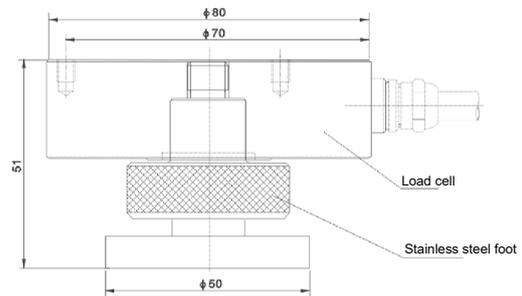
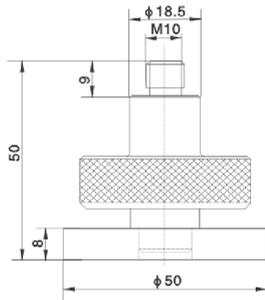


FEATURES

- Stainless steel material, assembled with load cell: BM24R
- Automatically centralized inside, good ability of anti-side load, easy installation, height with 5mm adjustment.
- Suitable for process control, batch weighing, silo/hoppers and belt scale applications.
- Capacity: 250Kg, 500Kg, 1t.

Capacity	Part number
250kg-1t	BJ-24-202

BJ-24-203

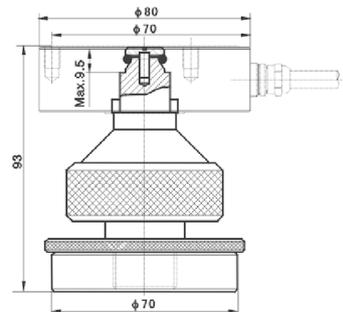
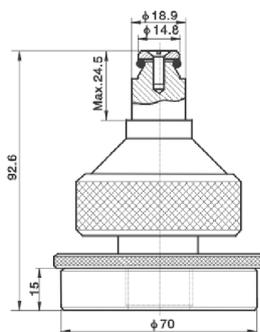


FEATURES

- Stainless steel material, assembled with load cell: BM24R
- Automatically centralized inside, good ability of anti-side load, easy installation, height with 5mm adjustment.
- Suitable for process control, batch weighing, silo/hoppers and belt scale applications.
- Capacity: 250Kg, 500Kg, 1t.

Capacity	Part number
250kg-1t	BJ-24-203

BJ-24-204

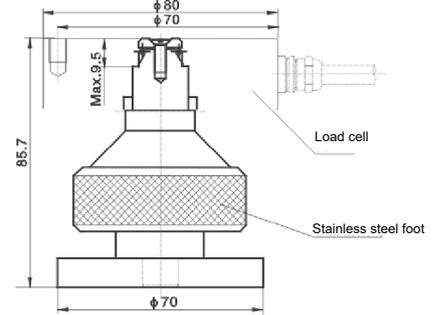
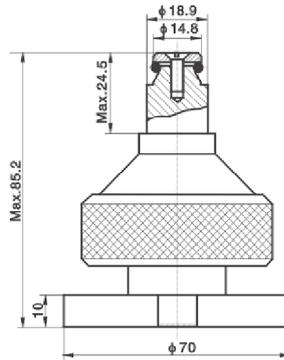


FEATURES

- Stainless steel material, assembled with load cell: BM24R
- Automatically centralized inside, good ability of anti-side load, easy installation, height with 5mm adjustment.
- Suitable for process control, batch weighing, silo/hoppers and belt scale applications.
- Capacity: 2t, 3.5t, 5t.

Capacity	Part number
2t-5t	BJ-24-204

BJ-24-205

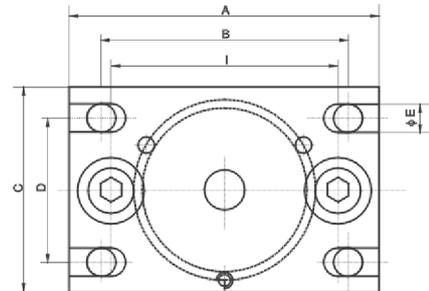
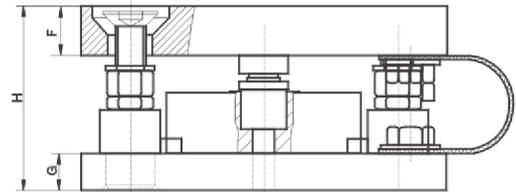


FEATURES

- Stainless steel material, assembled with load cell: BM24R
- Automatically centralized inside, good ability of anti-side load, easy installation, height with 5mm adjustment.
- Suitable for process control, batch weighing, silo/hoppers and belt scale applications.
- Capacity: 2t, 3.5t, 5t.

Capacity	Part number
2t-5t	BJ-24-205

BM-24-401/402/403



FEATURES

- Assembled with load cell BM24R.
- AISI 304 stainless steel and Rocker-pin load introduction.
- Built-in horizontal movement control and lift-off protection.
- Easy load cell (re) placement after mount installation.
- Suitable for process control, batch weighing, silo/hoppers and belt scale applications.

SPECIFICATIONS

		BM-24-401	BM-24-402	BM-24-403
Model number				
Capacity		250kg / 500kg / 1t	2t / 3.5t / 5t	10t / 13t
Maximum vertical force without load cell	KN	15	30	50
Maximum lift off force	KN	10	20	30
Maximum horizontal force in all directions	KN	5	10	20
Maximum horizontal movement	mm	±3	±3	±3
Installation height	mm	80	105	117
Working height	mm	75	100	110

Capacity	Dimension	A	B	C	D	ΦE	F	G	H	I
250kg / 500kg / 1t		150	120	100	70	Φ14	20	15	75	110
2t / 3.5t / 5t		160	120	110	70	Φ16	20	20	100	--
10t / 13t		210	175	120	85	Φ18	25	20	110	--

DH14A4d10

FEATURES

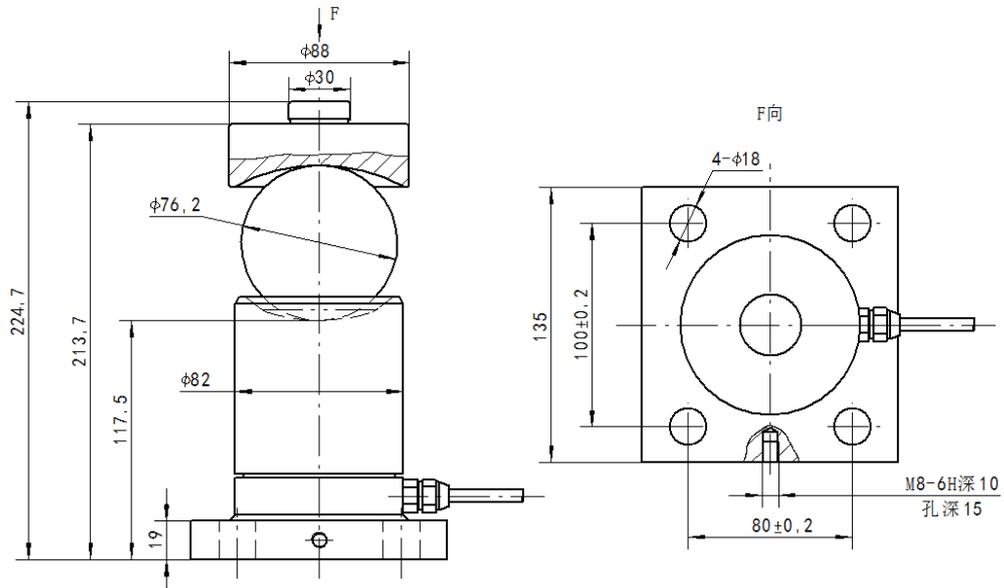
- The DH14A4d10 is a digital load cell that its sampling rate is programmable. Communication via serial interface RS485, making it easy to connect to PC/PLC and other instruments etc. It is the ideal instrument for high precision measurements.
- Nickel plated alloy steel materials.
- Compression structure design, easy to install and flexible.
- Power supply 12...24V DC.
- The sampling rate can be adjusted, maximum sampling rate is 1200Hz.
- When sampling rate is 1200Hz, the linearity is better than 0.2%.
- Internal resolution up to 1 million counts.
- Serial port RS485 for connection to PC/PLC by ASCII.



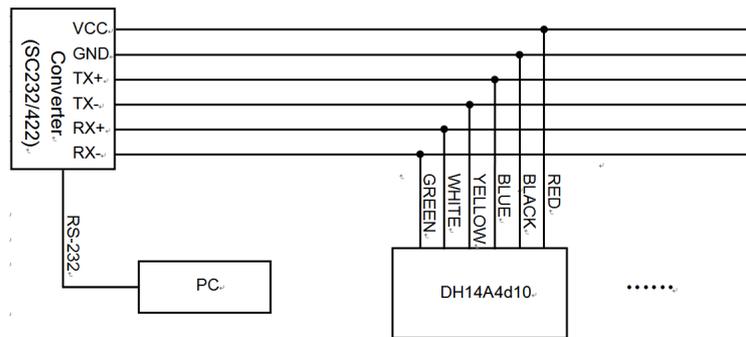
SPECIFICATION

Capacity	t	10 / 20 / 30 / 40 / 50	
Conversion rate internal / external (values per second)	Hz	1 , 3 , 10	250 , 1200
Accuracy class		C3	0.2%FS
Combined error	%FS	≤ ±0.02	≤ ±0.2
Linearity	%FS	≤ ±0.02	≤ ±0.2
Temperature effect on zero	%FS /10°C	≤ ±0.014	≤ ±0.2
Temperature effect on span	%FS /10°C	≤ ±0.011	≤ ±0.2
Rated Output	counts	1,000,000	
Zero balance	counts	±1000	
Serial interface		RS485 4-wire/2-wire	
Baud rate	bps	4800, 9600, 19200, 38400, 115200, 460800	
Power supply	V	12...24VDC	
Excitation	V	5V AC	
Working temperature range	°C	-10 to +40	
Storage temperature range	°C	-40 to +80	
Maximum Load Cell sensitivity	mV/V	2.0±0.2	
Minimum Load Cell Impedance	ohm	>300	
Number of bus addresses		Max.32	
Safe overload	%FS	150	
Ultimate overload	%FS	300	
Cable length		6 conductor /16m φ6.2	
Ingress protection		IP67	

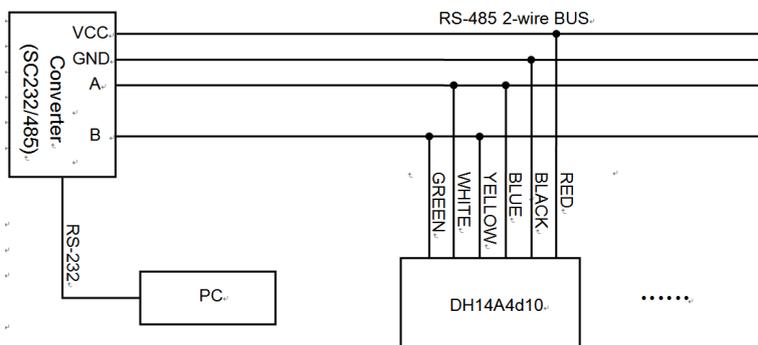
DIMENSIONS MM (INCH)



WIRING CODE1



WIRING CODE2



DBM14Cd

FEATURES

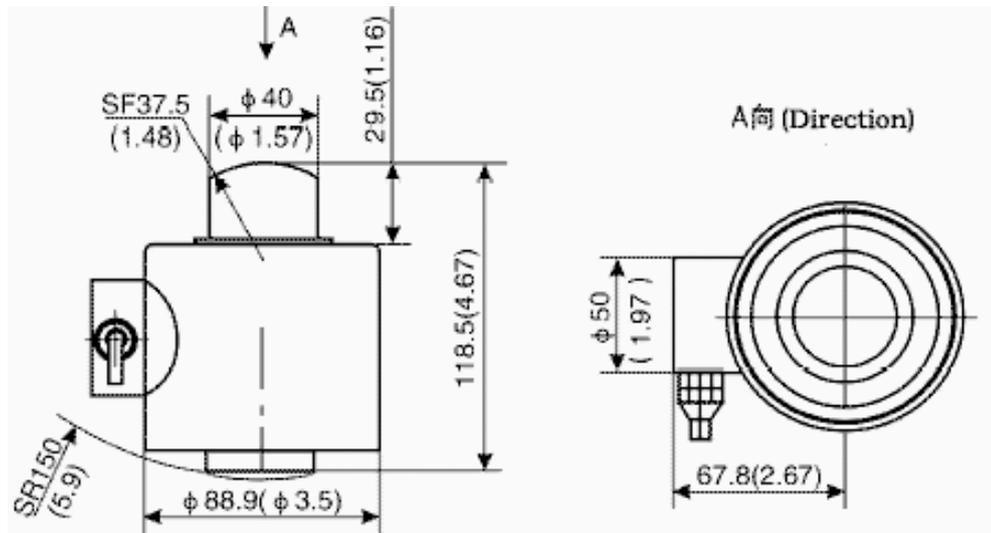
- Digital signal output (RS-485/4-wire)
- Nominal load 10t-100t
- Daul rocker column structure
- Easy to install
- Stainless steel
- Hermetically sealed
- Legal for trade verification according to OIML R60 up to 3000d
- Over-voltage protection



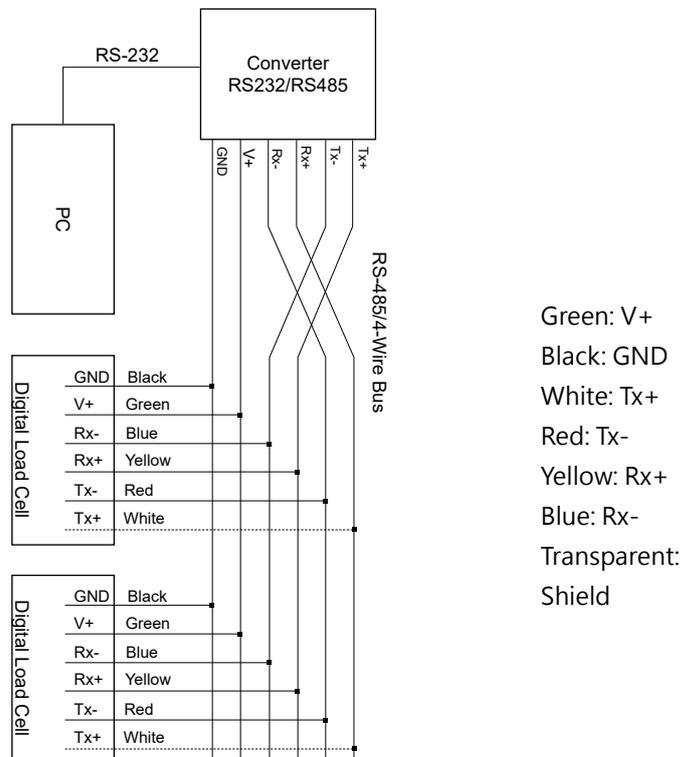
SPECIFICATION

Capacity	t	10,20,25,30,40,50
Accuracy class		C3
Maximum number of load cell intervals	nmax	3000
Minimum number of load cell intervals	vmin	Emax/7500
Rated output	Counts	1000000
Combined error	%FS	≤ ±0.020
Measurement rate	Hz	112, 56, 28, 14, 7, 3
Creep	(%FS/30min)	≤ ±0.016
Temperature effect on sensitivity	(%FS/10 °C)	≤ ±0.011
Temperature effect on zero	(%FS/10 °C)	≤ ±0.019
Excitation voltage	V DC	6~15
Communication interface		RS 485/4
Number of bus addresses		Maximum 32
Communication baud rate	Bps	19200
Maximum communication distance	m	1200
Compensated temperature	(°C)	-10~+40
Operating temperature	(°C)	-10~+50
Safe overload	(%FS)	150
Ultimate overload	(%FS)	300
Level of protection		IP68
Cable length	m	15
Cable specification		Ductor shielded cable, φ5mm

DIMENSIONS MM (INCH)



WIRING



DHM9Bd10

FEATURES

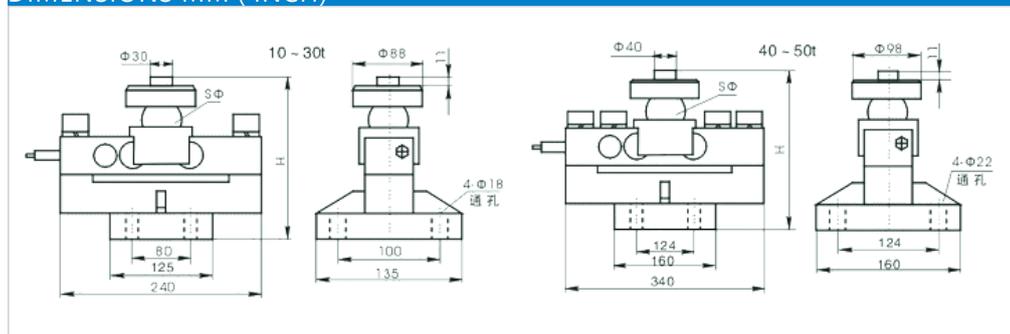
- High accuracy, strong stability
- Good consistency, strong interchangeability, easy installation and maintenance
- High reliability, strong anti-interference ability
- Self-identification function for fault diagnosis
- Long transmission distance, high communication speed, significant anti-cheating effect



SPECIFICATION

Capacity	t	10,20,25,30,40,50
Accuracy class		OIML R60 C3
Maximum number of load cell intervals	nmax	3000
Minimum number of load cell intervals	vmin	Emax/7500
Rated output	counts	1000000
Combined error	%FS	≤ ±0.020
Measurement rate	Hz	10
Creep	(%FS/30min)	≤ ±0.016
Temperature effect on sensitivity	(%FS/10℃)	≤ ±0.011
Temperature effect on zero	(%FS/10℃)	≤ ±0.019
Excitation voltage	V DC	5.4~15
Communication interface		RS 485/4
Number of bus addresses		Maximum 32
Communication baud rate	Bps	19200
Maximum communication distance	m	1000
Compensated temperature	(℃)	-10~+40
Operating temperature	(℃)	-20~+60
Safe overload	(%FS)	120
Ultimate overload	(%FS)	150
Level of protection		IP68
Cable length	m	16
Cable specification		Ductor shielded cable, φ6.2

DIMENSIONS MM (INCH)



Dimension (mm)	H	Sφ
10t	195	50
20-30t	225	76
40t,50t	267	82

WIRING

Red: V+ Black: GND Yellow: Rx+ Brown: Rx- Blue: Tx+ White:Tx- Transparent

FEATURES

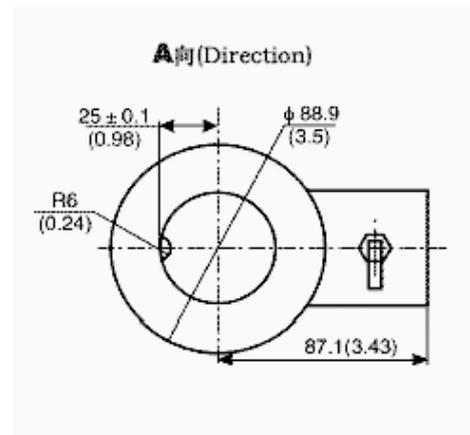
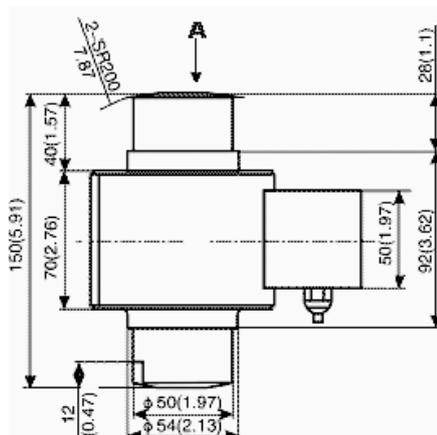
- Digital signal output (RS-485/4-wire)
- Rated load 10t-50t
- Daul rocker column structure
- Easy to instal
- Stainless steel
- Fully sealed welding
- Accuracy based on OIML R60 C3
- Large voltage protection



SPECIFICATION

Capacity	t	10,20,30,40,50
Accurary class		C3
Maximum number of load cell intervals	nmax	3000
Minimum number of load cell intervals	vmin	E max /12000
Rated output	Counts	1000000
Combined error	%FS	≤ ±0.020
Measurement rate	Hz	112,56,28,14,7,3
Creep	(%FS/30min)	≤ ±0.016
Temperature effect on sensitivity	(%FS/10 C)	≤ ±0.011
Temperature effect on zero	(%FS/10 C)	≤ ±0.012
Excitation voltage	V DC	6~15
Communication interface		RS 485/4
Number of bus addresses		Maxmum 32
Communication baud rate	Bps	19200
Maximum communication distance	m	1200
Compensated temperature	(C)	-10~+40
Operating temperature	(C)	-10~+50
Safe overload	(%FS)	150
Ultimate overload	(%FS)	300
Level of protection		IP68
Cable length	m	15
Cable specification		Ductor shielded cable, φ5mm

DIMENSIONS MM (INCH)



DBM14Kd

FEATURES

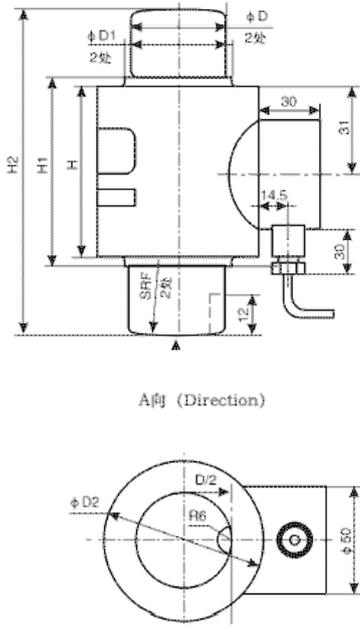
- Digital signal output (RS-485/4-wire)
- Nominal load 10t-100t
- Dual rocker column structure
- Easy to install
- Stainless steel
- Fully sealed welding
- Accuracy based on OIML R60 C3
- Large voltage protection



SPECIFICATION

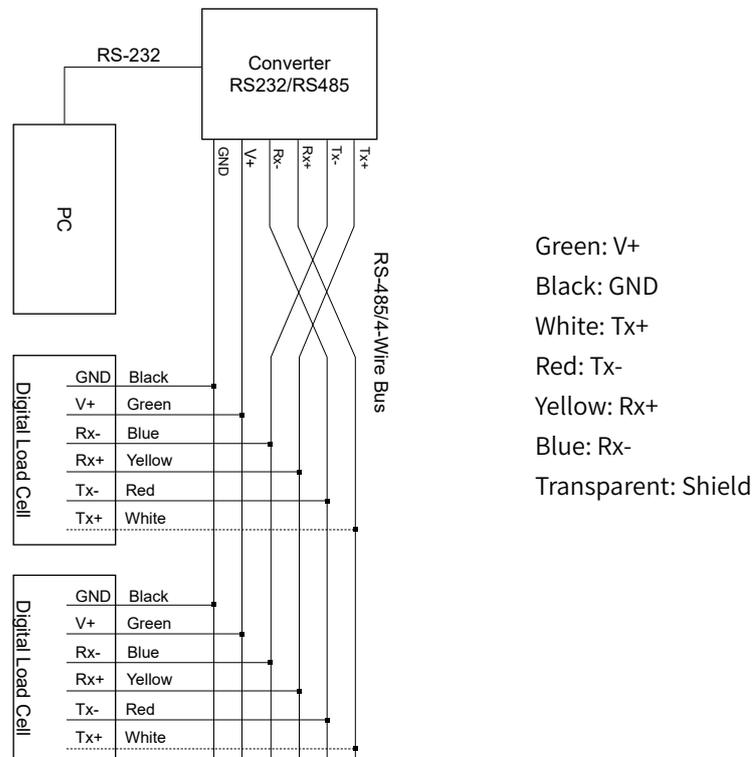
Capacity	t	10,15,20,30,40,50,60,100
Accuracy class		C3
Maximum number of load cell intervals	nmax	3000
Minimum number of load cell intervals	vmin	Emax/7500
Rated output	Counts	1000000
Combined error	%FS	≤ ±0.020
Measurement rate	Hz	112,56,28,14,7,3
Creep	(%FS/30min)	≤ ±0.016
Temperature effect on sensitivity	(%FS/10℃)	≤ ±0.011
Temperature effect on zero	(%FS/10℃)	≤ ±0.019
Excitation voltage	V DC	6~15
Communication interface		RS 485/4
Number of bus addresses		Maximum 32
Communication baud rate	Bps	19200
Maximum communication distance	m	1200
Compensated temperature	(℃)	-10~+40
Operating temperature	(℃)	-10~+50
Safe overload	(%FS)	150
Ultimate overload	(%FS)	300
Level of protection		IP68
Cable length	m	20 (40,50,60,100t); 2 (10,15,20,30t)
Cable specification		Ductor shielded cable, φ5mm

DIMENSIONS MM (INCH)



Capacity(t)	10-15	20	30	40	50-60	100
D	44 (1.73)				64 (2.52)	
D1	49 (1.93)				68 (2.66)	
D2	74 (2.91)				93 (3.66)	
H	80 (3.15)	92 (3.62)			121 (4.71)	
H1	88 (3.46)	100 (3.94)			128 (5.04)	
H2	130 (5.12)	150 (5.91)	210 (8.27)		260 (10.24)	
SRF	200 (7.87)			300 (11.81)		400 (15.75)

WIRING



DBM14Ad

FEATURES

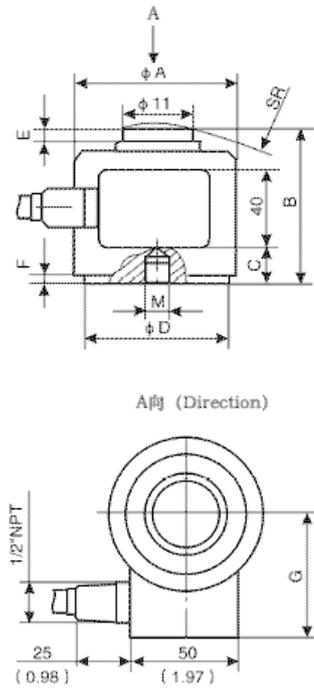
- Digital signal output(RS-485/4-wire)
Rated load 10t-100t
- Easy to install
- Stainless steel
- Fully sealed welding
- Accuracy based on OIML R60 C3
- Large voltage protection



SPECIFICATION

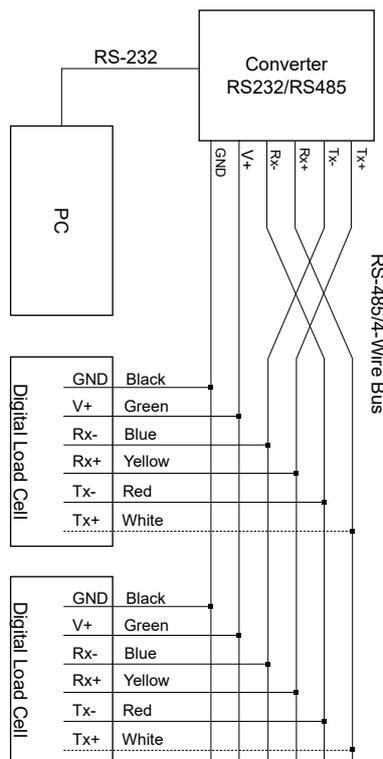
Capacity	t	10,20,40,60,100
Accuracy class		C3
Maximum number of load cell intervals	nmax	3000
Minimum number of load cell intervals	vmin	$E_{max}/7500$
Rated output	Counts	1000000
Combined error	%FS	$\leq \pm 0.020$
Measurement rate	Hz	112,56,28,14,7,3
Creep	(%FS/30min)	$\leq \pm 0.016$
Temperature effect on sensitivity	(%FS/10 C)	$\leq \pm 0.011$
Temperature effect on zero	(%FS/10 C)	$\leq \pm 0.019$
Excitation voltage	V DC	6~15
Communication interface		RS 485/4
Number of bus addresses		Maximum 32
Communication baud rate	Bps	19200
Maximum communication distance	m	1200
Compensated temperature	(C)	-10~+40
Operating temperature	(C)	-10~+50
Safe overload	(%FS)	150
Ultimate overload	(%FS)	300
Level of protection		IP68
Cable length	m	20(25,40,60,100t) 10(10t)
Cable specification		Ductor shielded cable, $\phi 5\text{mm}$

DIMENSIONS MM (INCH)



Capacity(t)	10,25	40, 60	100
A	73 (2.87)	105 (4.13)	151.4 (6.0)
B	82.5 (3.25)	127.0 (5.0)	184.2 (7.25)
C	12 (0.47)	34 (1.34)	72.3 (2.85)
D	58 (2.28)	82.5 (3.25)	123.8 (4.87)
E	7.75 (0.31)	9.4 (0.37)	23.75 (0.91)
F	2.6 (0.10)	4 (0.16)	3.7 (0.15)
G	64 (2.52)	87 (3.43)	108.2 (4.26)
H	M12×1.75	M20×2.5	
SR	152 (5.98)	152 (5.98)	432 (17.01)

WIRING



Green: V+
 Black: GND
 White: Tx+
 Red: Tx-
 Yellow: Rx+
 Blue: Rx-
 Transparent: Shield

DHM14Cd

FEATURES

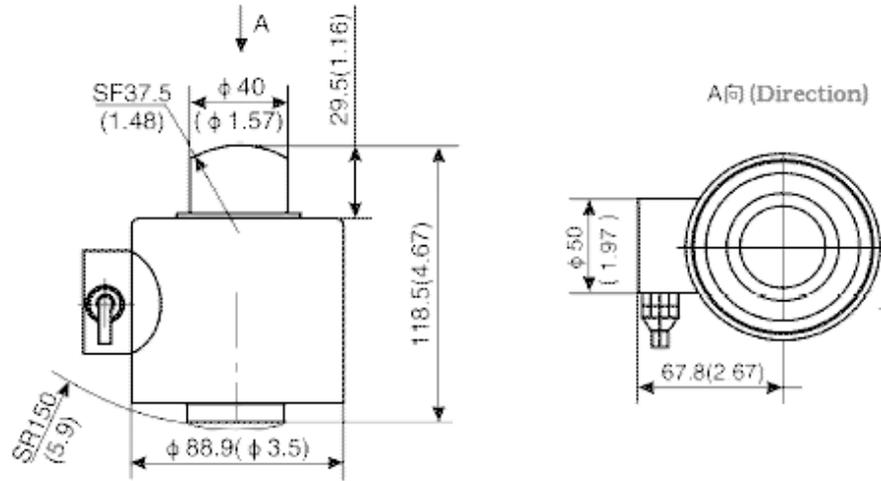
- Digital signal output (RS-485/4-wire)
- Rated load 10t-50t
- Daul rocker column structure
- Easy to install
- Hermetically sealed
- Legal for trade verification according to OIML R60 up to 3000d
- Over-voltage protection



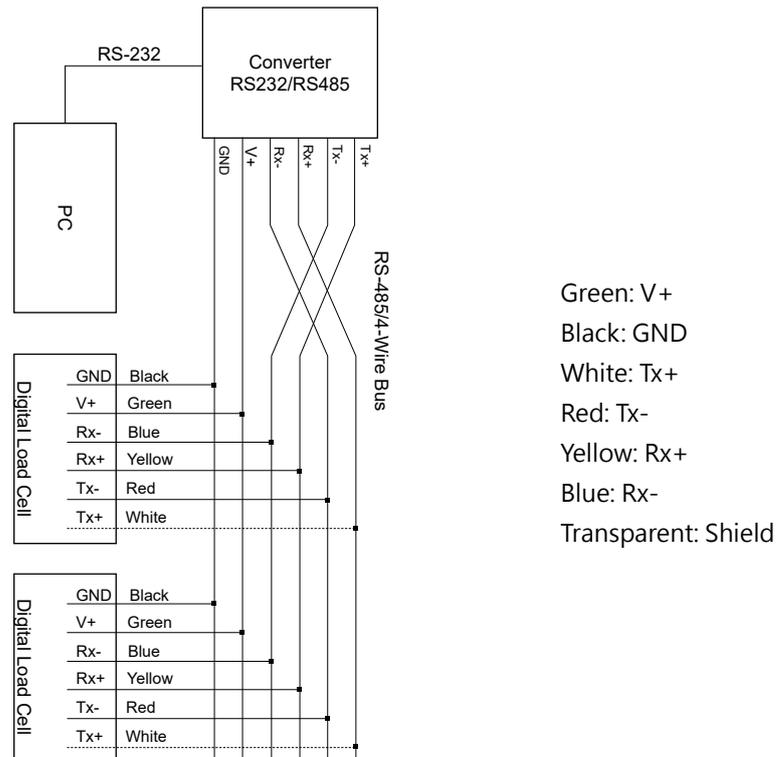
SPECIFICATION

Capacity	t	10,20,25,30,50
Accuracy class		C3
Maximum number of load cell intervals	nmax	3000
Minimum number of load cell intervals	vmin	E _{max} /7500
Rated output	Counts	1000000
Combined error	%FS	≤ ±0.020
Measurement rate	Hz	112,56,28,14,7,3
Creep	(%FS/30min)	≤ ±0.016
Temperature effect on sensitivity	(%FS/10 °C)	≤ ±0.011
Temperature effect on zero	(%FS/10 °C)	≤ ±0.019
Excitation voltage	V DC	6~15
Communication interface		RS 485/4
Number of bus addresses		Maximum 32
Communication baud rate	Bps	19200
Maximum communication distance	m	1200
Compensated temperature	(°C)	-10~ +40
Operating temperature	(°C)	-10~ +50
Safe overload	(%FS)	150
Ultimate overload	(%FS)	300
Level of protection		IP68
Cable length	m	15
Cable specification		Ductor shielded cable, φ5mm

DIMENSIONS MM (INCH)

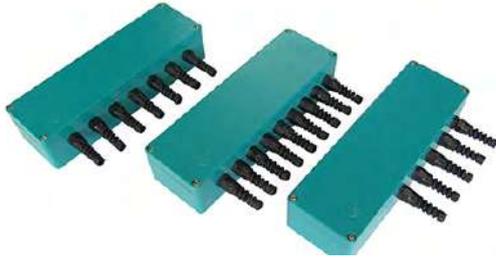


WIRING



JUNCTION BOX

JB01



FEATURES

- Cast aluminum, plastic-sprayed
- Easy to assembly and calibrate, high reliability
- Fully encapsulated, water-proof and moisture proof
- Sensitivity matched adjusting methods
- Operating temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

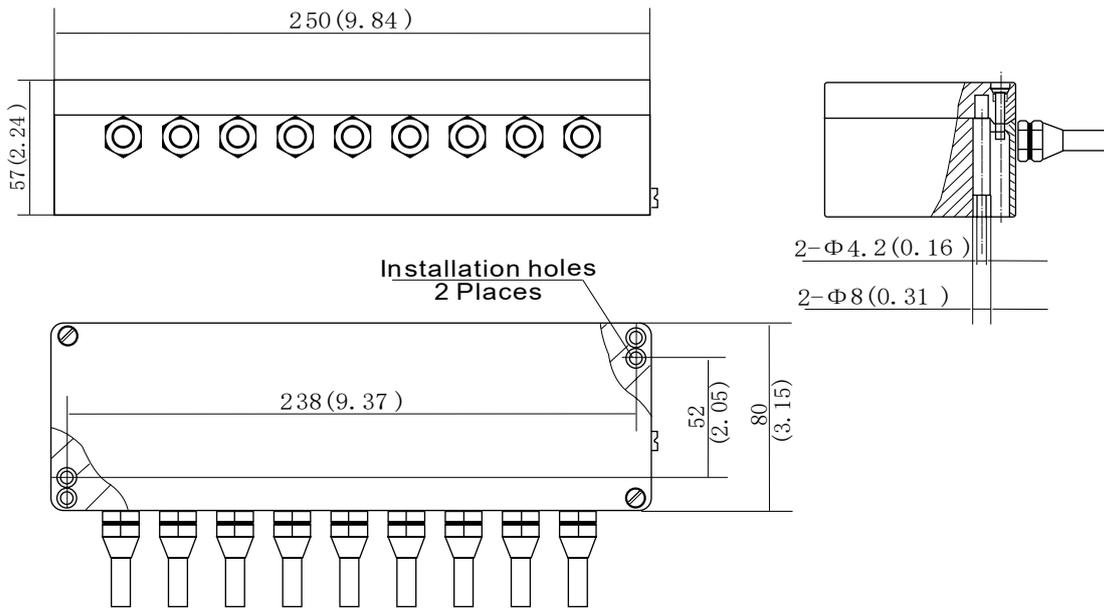
OPTIONAL TABLE

Part number	Channels
JB01-2	2
JB01-3	3
JB01-4	4
JB01-6	6
JB01-8	8
JB01-10	10

DESCRIPTION

- Specially designed for scales
- This model are available to connect 2 to 10 load cells with 4-wire or 6-wire cable on different requests.

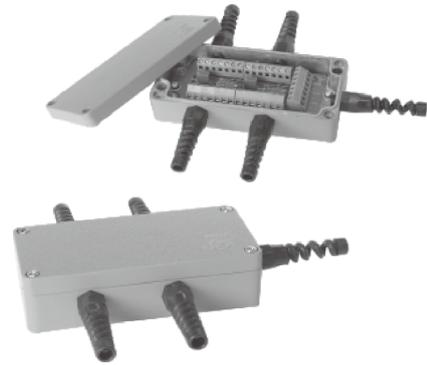
DIMENSIONS IN MM



JB02

FEATURES

- Cast aluminum, plastic-sprayed
- Easy to assembly and calibrate, high reliability
- Fully encapsulated, water-proof and moisture proof
- Sensitivity matched adjusting methods
- Operating temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$



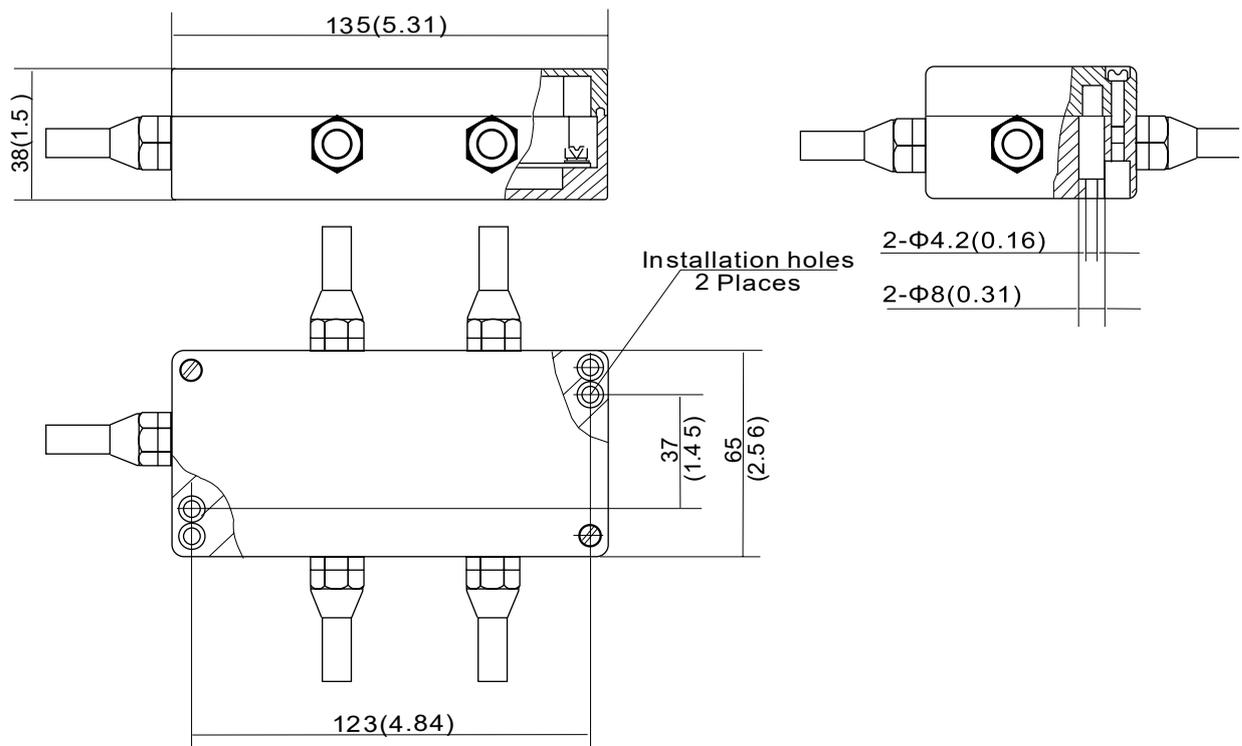
DESCRIPTION

- Specially designed for scales
- This model are available to connect 2 to 4 load cells with 4-wire or 6-wire cable on different requests.

OPTIONAL TABLE

Part number	Channels
JB02-2	2
JB02-3	3
JB02-4	4

DIMENSIONS IN MM



JUNCTION BOX

JB05A



FEATURES

- Cast aluminum, plastic-sprayed
- East to assemble and calibrate, high reliability
- Fully encapsulated, water-proof, moistureproof and lightning protected.
- Surge protection
- Sensitivity matched adjusting method
- Operating temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

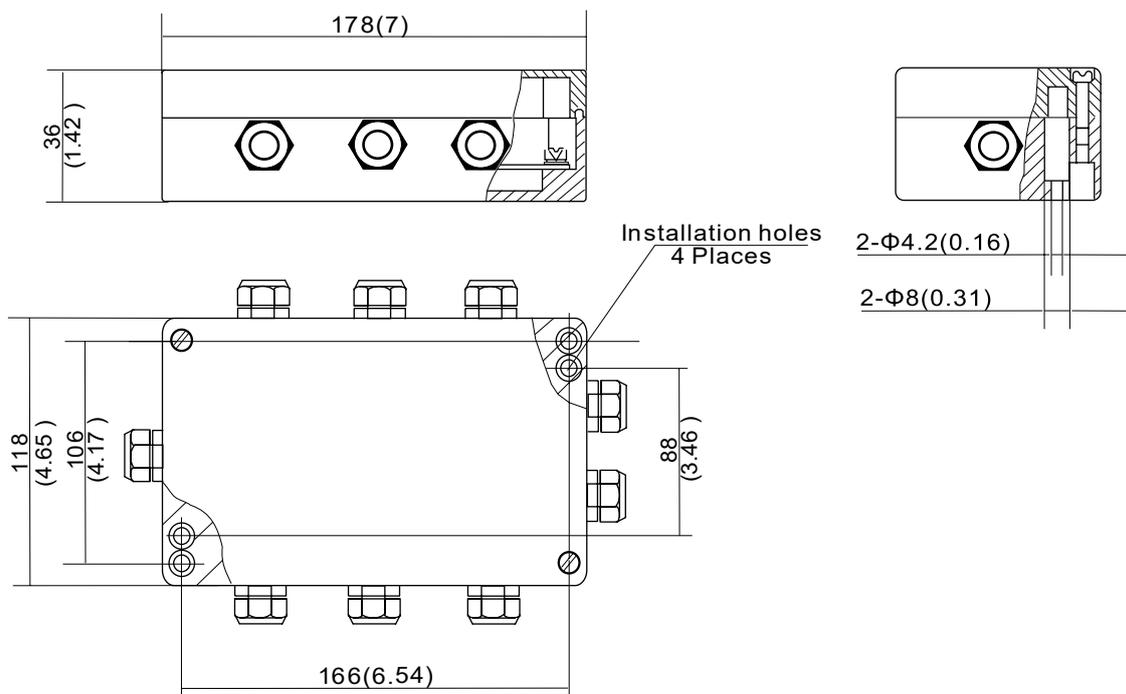
OPTIONAL TABLE

Part number	Channels
JB05A-4	4
JB05A-6	6
JB05A-8	8

DESCRIPTION

- Specially designed for scales
- This model are available to connect 4 to 8 load cells with 4-wire cable on different requests.

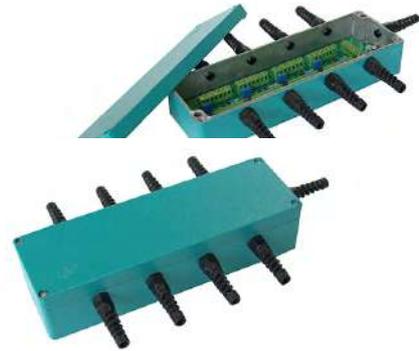
Dimensions in mm



JB06

FEATURES

- Cast aluminum, plastic-sprayed
- Easy to assemble and calibrate, high reliability
- Fully encapsulated, water-proof, moistureproof and lightning protected.
- Surge protection
- Sensitivity matched adjusting method
- Operating temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$



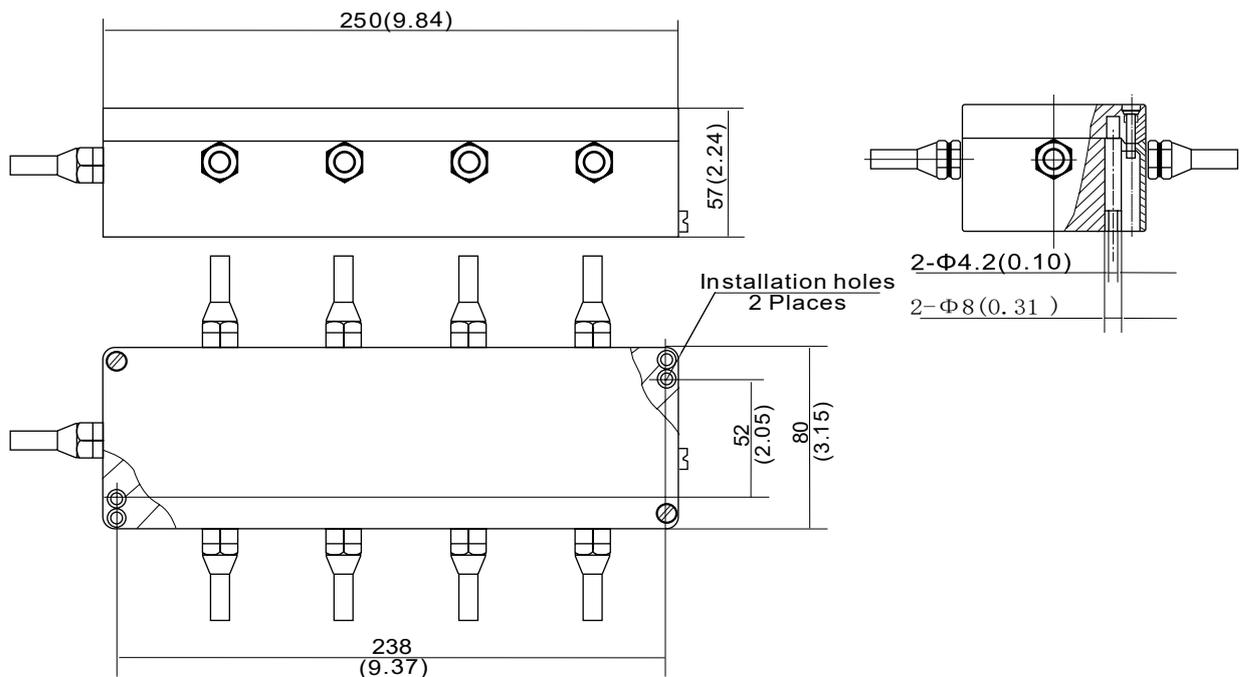
DESCRIPTION

- Specially designed for scales
- This model is available to connect 2 to 8 load cells with 4-wire or 6-wire cable on different requests.

OPTIONAL TABLE

Part number	Channels
JB06-2	2
JB06-3	3
JB06-4	4
JB06-6	6
JB06-8	8

Dimensions in mm



JUNCTION BOX

JB07



FEATURES

- Cast aluminum, plastic-sprayed
- East to assemble and calibrate, high reliability
- Fully encapsulated, water-proof, moisture proof and lightning protected.
- Surge protection
- Sensitivity matched adjusting method
- Operating temperature: -40°C ~ +85°C

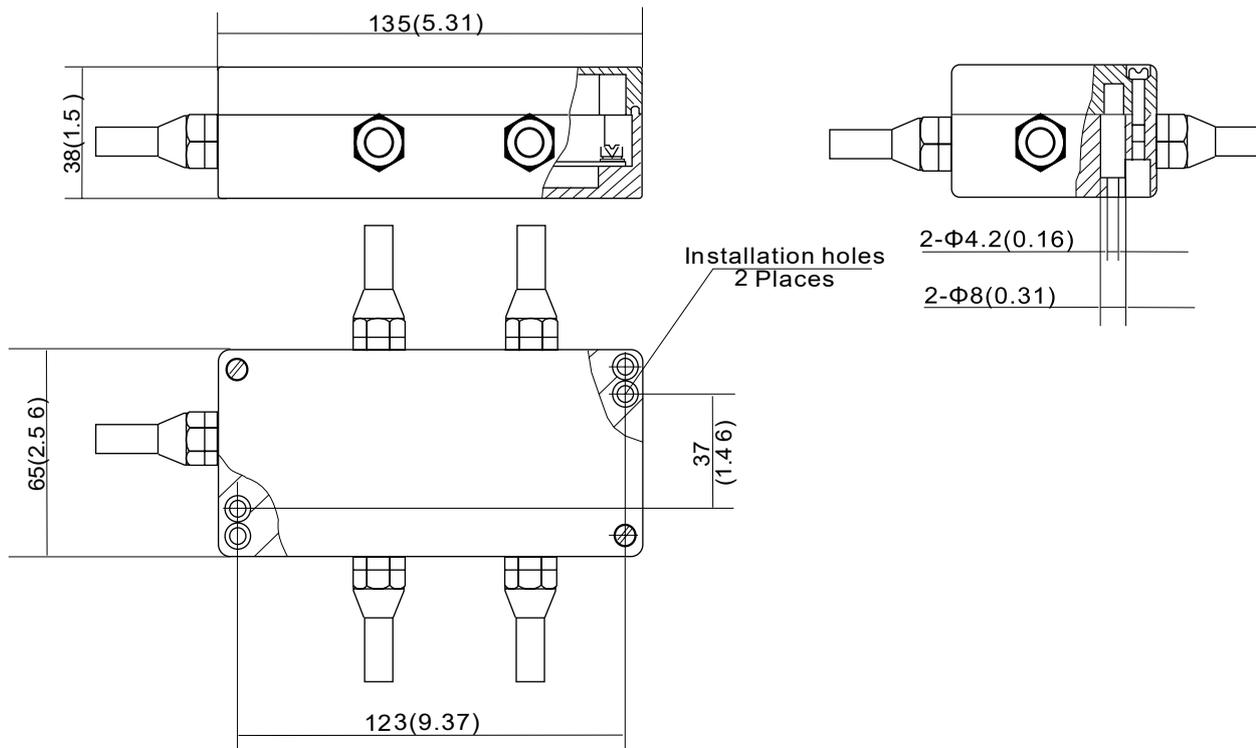
OPTIONAL TABLE

Part number	Channels
JB07-2	2
JB07-3	3
JB07-4	4

DESCRIPTION

- Specially designed for scales
- This model are available to connect 2 to 4 load cells with 4-wire or 6-wire cable on different requests.

DIMENSIONS IN MM



FD-3

FEATURES

- Adjustable stable voltage
- Voltage counter-connection protection
- Zero adjustable resistors can be outer connected
- Terminal tabs connection
- Ingress protection (according to EN 60529): IP65

SPECIFICATIONS (current output)

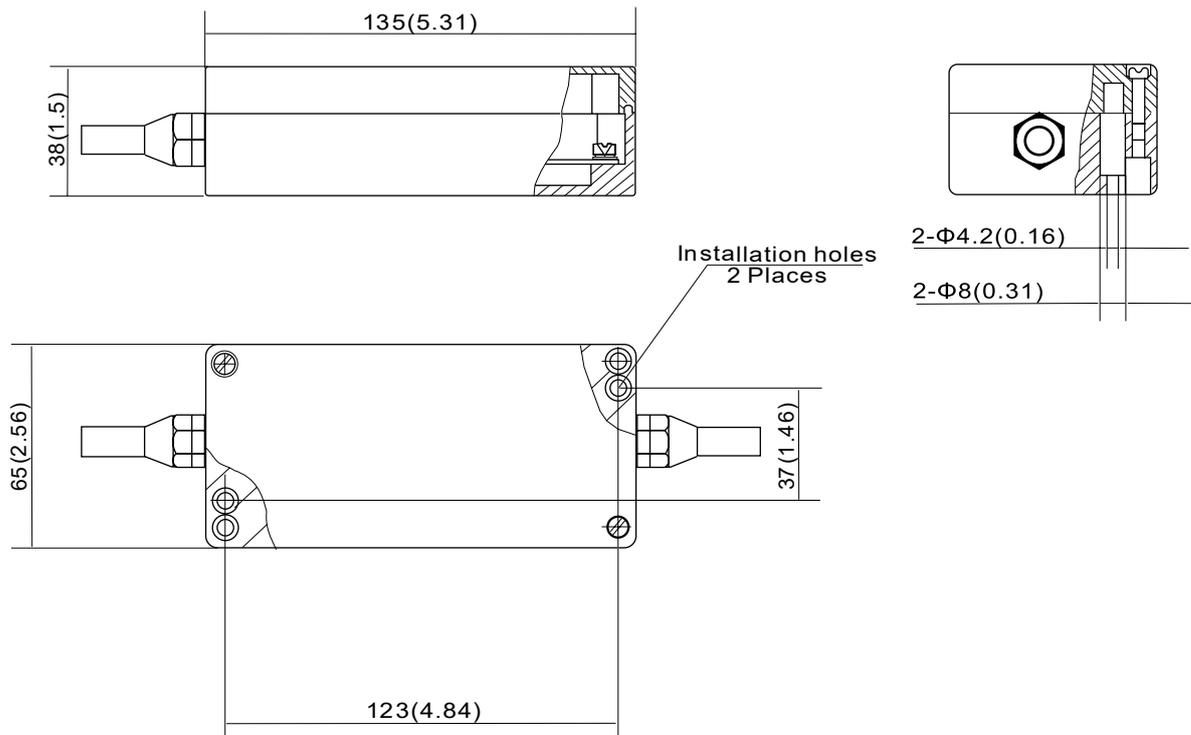
- Supply voltage: DC 12V, 15V, 24V
- Output: 4-20mA (or 0-10mA, 0-20mA)
- Load resistance: $\geq 500\Omega$ (15V~24V)
- Accuracy: better than 0.1%F.S
- Operating temperature: $-20^{\circ}\text{C} \sim +85$

SPECIFICATIONS (voltage output):

- Supply voltage: DC 12V, 15V, 24V
- Output: 0-5VDC (Or 1-5VDC, 0-10VDC, 0- ± 5 VDC)
- Accuracy: better than 0.02%F.S
- Load resistance $\geq 500\Omega$
- Operating temperature: $-20^{\circ}\text{C} \sim +85$



DIMENSIONS IN MM



TRANSMITTER

FD-4



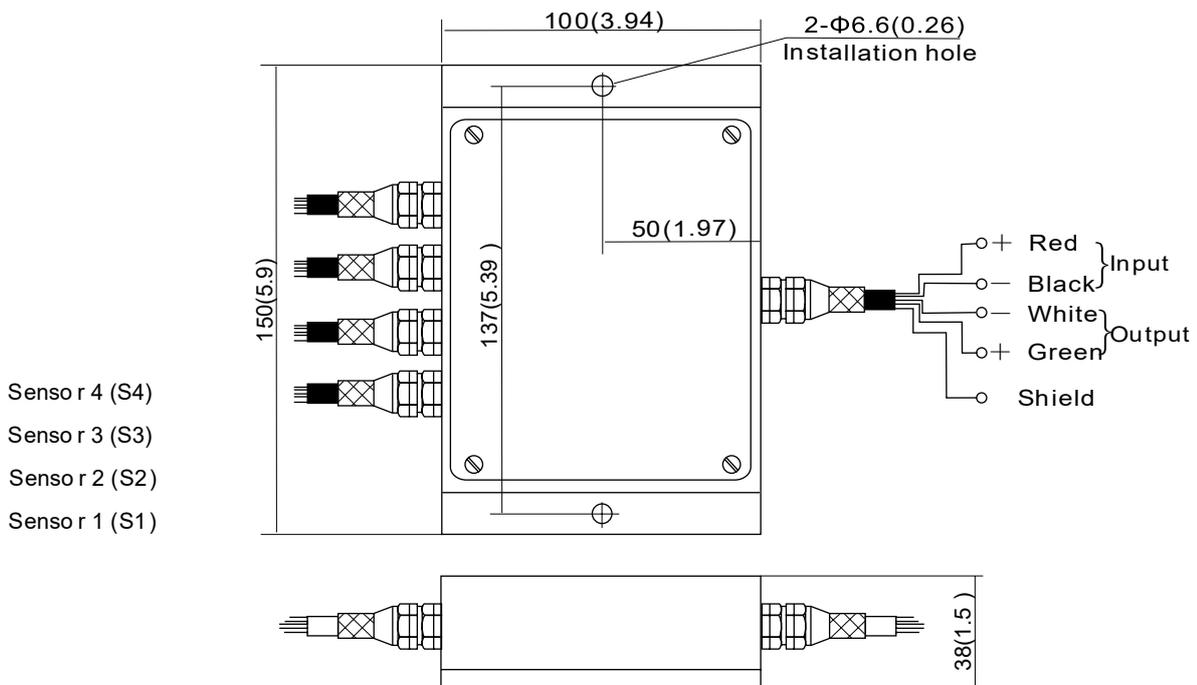
FEATURES

- Connection for 2 to 4 load cells
- Voltage counter-connection protection
- Easy to assemble and calibrate, high reliability
- Excellent water-proof ability
- Voltage or current output signal

SPECIFICATIONS

- Supply voltage: DC 12V, 15V, 24V
- Output: 0-10mA 4-20mA 0-5VDC 1-5VDC
- Accuracy: better than 0.1%F.S
- Load resistance $\leq 500\Omega$ (current output)
- $\geq 500\Omega$ (voltage output)
- Operating temperature: $-20^{\circ}\text{C} \sim +85$
- Ingress protection (according to EN 60529): IP65

DIMENSIONS IN MM



FD-5

FEATURES

- Connection for 2 to 4 load cells
- Surge protection
- Voltage counter-connection protection
- Voltage or current output signal
- Terminal tabs connection
- The installation holes on the cover making it easily to be fixed on the platform.

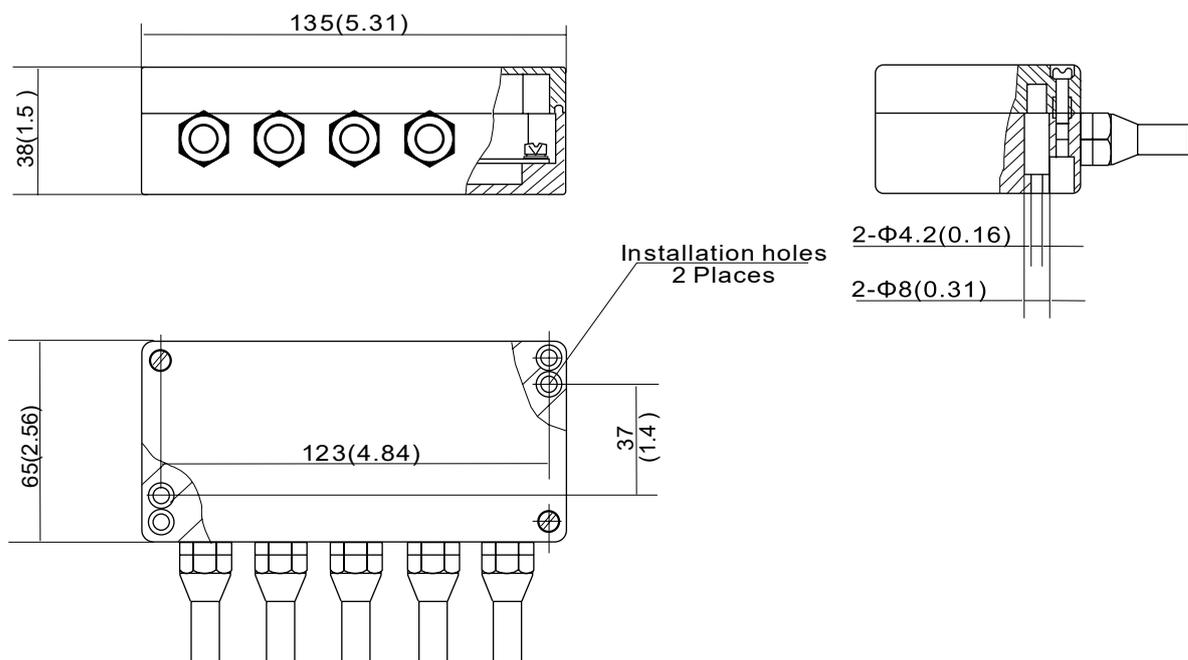


SPECIFICATIONS

- Supply voltage: DC 15V,
- Output: 0-10mA 4-20mA 0-5VDC 1-5VDC
- Accuracy: better than 0.1%F.S
- Load resistance $\leq 500\Omega$ (current output)
 $\geq 500\Omega$ (voltage output)
- Operating temperature: $-20^{\circ}\text{C} \sim +85$
- Ingress protection (according to EN 60529): IP65

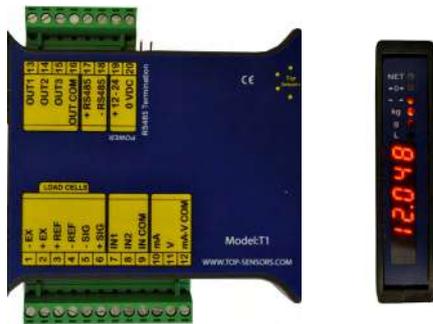


DIMENSIONS IN MM



TRANSMITTER

T1



EC Type approval certificate. OIML R76:2006
Certificate No. DK 0199.367

- Weight transmitter and indicator for
- Omega/Din rail mounting, suitable for back panel; space-saving vertical shape
- Six-digit semi alphanumeric display
- 7 segment LED, 8mm height
- Dimensions 25 * 115 * 120 mm



SPECIFICATIONS

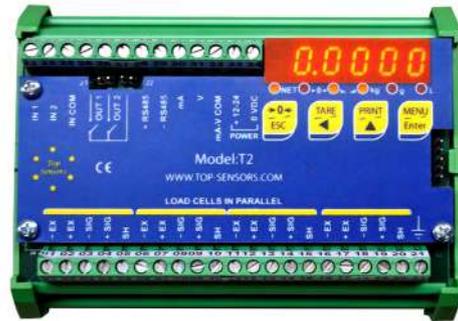
- 0.2 $\mu\text{V}/\text{VSI}$, 10.000 divisions range.
- 0.01 $\mu\text{V}/\text{VSI}$, 1.000.000 divisions range (for internal use).
- Opto-isolated 16-bit analog output (4-20mA (max 300 ohm), 0-20mA, 0-10V, +/-10V, 0-5V, +/-5V (minimum 10 Kohm)).
- Serial port RS485 for connection to PC/PLC by ASCII or ModBus RTU.
- Optional protocols: Profibus DP, Ethernet/Modbus TCP, USB and Radio by appropriate converter.
- 3 mechanical-relay digital outputs
- 2 opto-isolated digital inputs

TECHNICAL FEATURES

Power supply and consumption	12 - 24 VDC +/- 10% ; 5 W
Number of Load Cells in parallel and supply	max 8 (350 ohm) ; 5VDC/120mA
Linearity and linearity of the analog output	< 0.01% Full Scale ; < 0.01% Full Scale
Thermal drift and thermal drift of the analog output	< 0.0005 % Full Scale /° C ; < 0.003% Full Scale /° C
A/D Converter	24 bit (ca 16.000.000 points) 4.8 kHz
Max divisions (with measure range: +/- 10mV =2mV/V)	+/- 999999
Measure range	+/- 39 mV
Maximum Load Cells sensitivity	+/- 7 mV/V
Maximum conversions per second	300 conversions/sec. (300 Hz)
Display range	- 999999 ; + 999999
Decimals / Display increments	0 - 4 ; x 1 x 2 x 5 x 10 x 20 x 50 x 100
Digital filter / Conversion rate	0.012 - 7 sec ; 5 - 300 Hz
Logic relay outputs	N.3 - maximum 115 VAC / 150mA
Logic inputs	N.2 - opto-isolated 5 - 24 VDC PNP
Serial port	RS485 (ASCII or Modbus RTU)
Baud rate	2400, 4800, 9600, 19200, 38400, 115200
Humidity (condensate free)	85%
Storage temperature range	- 30° C + 80° C
Working temperature range	- 20° C + 60° C
Working temperature range approved (CE-M APPROVED)	-10° C + 40° C

T2

- Weight transmitter and indicator for
- Omega/Din rail mounting, suitable for back panel; or junction box.
- Six-digit semi alphanumeric display,
- 7 segment LED, 8mm height.
- Four key keyboard
- Dimensions 123 * 92 * 50 mm.



SPECIFICATIONS

- 0.2 $\mu\text{V}/\text{VSI}$, 10000 divisions range.
- 0.01 $\mu\text{V}/\text{VSI}$, 1000000 divisions range (for internal use).
- Opto-isolated 16-bit analog output (4-20mA (max 300 ohm), 0-20mA, 0-10V, +/-10V, 0-5V, +/-5V (minimum 10 Kohm)).
- Serial port RS485 for connection to PC/PLC by ASCII or Modbus RTU.
- Optional protocols: Profibus DP, Ethernet/Modbus TCP, USB and Radio by appropriate converter.
- 2 opto-isolated transistor digital outputs.
- 2 opto-isolated digital inputs.
- On board terminals for 1 to 4, 4 wire Load Cells, in parallel.

TECHNICAL FEATURES

Power supply and consumption	12 - 24 VDC +/- 10% ; 5 W
Number of Load Cells in parallel and supply	max 8 (350 ohm) ; 5VDC/120mA
Linearity and linearity of the analog output	< 0.01% Full Scale ; < 0.01% Full Scale
Thermal drift and thermal drift of the analog output	< 0.0005 % Full Scale /° C ; < 0.003% Full Scale /° C
A/D Converter	24 bit (ca 16.000.000 points) 80 Hz
Max divisions (with measure range: +/- 10mV =2mV/V)	+/- 999999
Measure range	+/- 19.5 mV
Maximum Load Cells sensitivity	+/- 3 mV/V
Maximum conversions per second	80 conversions/sec. (80 Hz)
Display range	- 999999 ; + 999999
Decimals / Display increments	0 - 4 ; x 1 x 2 x 5 x 10 x 20 x 50 x 100
Digital filter / Conversion rate	0.080 - 7.5 sec ; 5 - 80 Hz
Logic relay outputs	N.2 - maximum 24 VDC / 60mA
Logic inputs	N.2 - opto-isolated 5 - 24 VDC PNP
Serial port	RS485 (ASCII or Modbus RTU)
Baud rate	2400, 4800, 9600, 19200, 38400, 115200
Humidity (condensate free)	85%
Storage temperature range	- 30° C + 80° C
Working temperature range	- 20° C + 60° C

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