

HM8

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

Available models

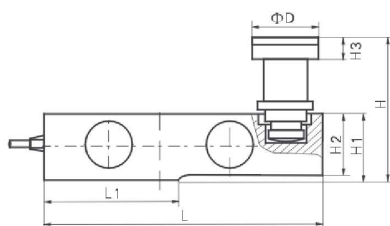
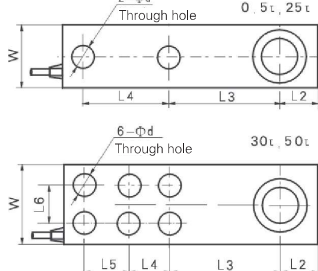
Capacity	Accuracy	Full article description
1t	C3 Excluded from OIML	HM8-C3-1t-6.5B6
2t	C3 Excluded from OIML	HM8-C3-2t-6.5B6
2.5t	C3 Excluded from OIML	HM8-C3-2.5t-6.5B6
3t	C3 Excluded from OIML	HM8-C3-3t-6.5B6
5t	C3	HM8-C3-5t-6.5B6
10t	C3	HM8-C3-10t-6.5B6
15t	C3	HM8-C3-15t-6.5B6
20t	C3	HM8-C3-20t-6.5B6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



Specification

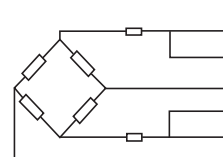
Accuracy class		C3	OIML R60 C3
Output sensitivity (= FS)	mV/V	2.0 ± 0.002	
Maximum capacity (Emax)	t	1, 2, 2.5, 3, 30	5, 10, 15, 20, 25
Maximum number of load cell intervals (nLC)		3000	
Ratio of minimum LC verification interval Y = Emax / vmin		10000	15000
Combined error	%FS	± 0.020	
Minimum dead load	of Emax	0%	
Safe overload	of Emax	150 %	
Ultimate overload	of Emax	300 %	
Zero balance	%FS	± 1.0	
Excitation, recommended voltage	V	5 ~ 12(DC)	
Excitation maximum	V	18(DC)	
Terminal resistance, input	Ω	400 ± 5	
Terminal resistance, output	Ω	352 ± 3.0	
Insulation impedance	MΩ	≥ 5000 (at 50VDC)	
Temperature range, compensated	°C	-10 ~ +40	
Temperature range, operating	°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 bolts	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 C II3G Ex nL IIC T4	

Dimensions in mm

Dimension	H	H1	H2	H3	ΦD	Φd	W	L	L1	L2	L3	L4	L5	L6
1-2t	57.9 (2.28)	43 (1.69)	37 (1.47)	5 (0.2)	35 (1.38)	13 (0.51)	37 (1.47)	203 (7.99)	95 (3.74)	22 (0.87)	98 (3.86)	64 (2.52)	/	/
2.5 t	57.9 (2.28)	43 (1.69)	37 (1.47)	5 (0.2)	35 (1.38)	15 (0.59)	37 (1.47)	203 (7.99)	95 (3.74)	22 (0.87)	98 (3.86)	64 (2.52)	/	/
3t	62.9 (2.48)	43 (1.69)	37 (1.47)	5 (0.2)	35 (1.38)	15 (0.59)	37 (1.47)	203 (7.99)	95 (3.74)	22 (0.87)	98 (3.86)	64 (2.52)	/	/
5t	78.7 (3.1)	52 (2.05)	48 (1.89)	8 (0.31)	42 (1.65)	21 (0.83)	48 (1.89)	235 (9.25)	110 (4.33)	22 (0.87)	124 (4.88)	86 (3.35)	/	/
10t,15t	127.7 (5.03)	67 (2.64)	60 (2.36)	12 (0.47)	57 (2.24)	28 (1.10)	60 (2.36)	279 (10.98)	133 (5.24)	32 (1.26)	140 (5.51)	82 (3.23)	/	/
20t,25t	143.5 (5.65)	82.5 (3.25)	70 (2.76)	12 (0.47)	70 (2.76)	34 (1.34)	70 (2.76)	318 (12.52)	153 (6.02)	38 (1.5)	159 (6.26)	88 (3.5)	/	/
30t	174 (6.85)	115 (4.53)	90 (3.54)	18 (0.71)	70 (2.76)	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)

Wiring



Input (+)	Red
Sense (+)	Brown
Output (-)	White
Sense (-)	Black
Input (-)	Yellow
Output (+)	Blue

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