Datasheet: BM8H load cell

OIML test certificate no. D09-08.24 Revision 0

OIML test certificate no. TC8104 Revision 0

OIML C of C no. R60/2000-DE1-10.09 Revision 1

OIML C of C no. R60/2000-NL1-12.15

NTEP certificate no. 10-056A1

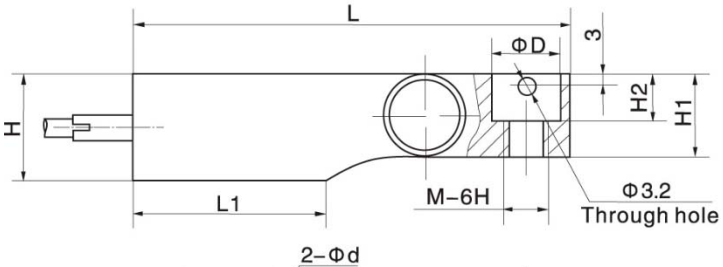
- Stainless steel IP68 shear beam load cell
- Hermetically sealed
- Suitable for hopper, platform and pallet scales
- High accuracy

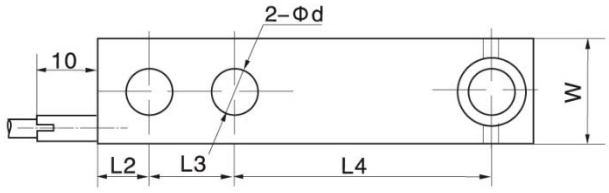
Capacity	Accuracy	Part-Number
500 kg	C3	BM8H-C3-500kg-3B-A1
1 t	C3	BM8H-C3-1t-3B-A1
1.5 t	C3	BM8H-C3-1.5t-3B-A1
2 t	C3	BM8H-C3-2t-6B-A1
5 t	C3	BM8H-C3-5t-6B-A1[1]

Specification:

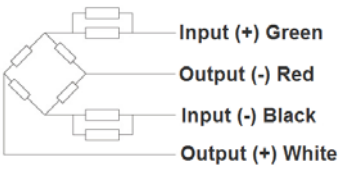
Accuracy class		OIML R60 C3	N5	
Output sensitivity (= FS)	mV/V	2.0 ± 0.02		
Maximum capacity (E_{max})	t	0.5, 1,1.5, 2, 5		
	klb		1, 2.5, 4, 5, 10	
Maximum number of load cell intervals (n_{LC})		3000	5000	
Ratio of minimum LC verification interval Y = E_{max} / v_{min}		15000	15000	
Combined Error	%FS	≤ ± 0.023	≤ ± 0.026	
Minimum dead load	kg	0		
Safe overload	of E_{max}	150 %		
Ultimate overload	of E_{max}	300 %		
Zero balance	of FS	≤ ± 1.0 %		
Excitation, recommended voltage	V	5 ~ 12		
Excitation maximum	V	18		
Terminal resistance, input	Ω	1000 ± 10		
Terminal resistance, output	Ω	1000 ± 10		
Insulation impedance	MΩ	≥ 5000 (at 50VDC)		
Temperature range, compensated	°C	-10 ~+40		
Temperature range, operating	°C	-35 ~ +65		
Element material		Stainless steel		
Ingress Protection (according to EN 60529)		IP68		
Recommended torque on fixation bolts	Nm	M12:100 M20:700		
ATEX classification (optional)		II1G Ex ia II1C T4	II1D Ex iaD 20 T73°C	II3G nL IIC T4

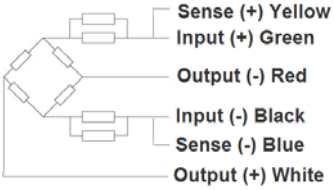
Outline Dimensions in mm (inches)





Capacity / Dimension	500kg (1Klb)	1.0t(2Klb) (2.5K)	1.5t,2.0t (4Klb,5Klb)	5.0t (10Klb)
L	130.0 (5.12)	130.0 (5.12)	130.0 (5.12)	172 (6.71)
L1	57.1 (2.25)	57.1 (2.25)	57.1 (2.25)	76.2 (3.0)
L2	15.5 (0.62)	15.5 (0.62)	15.5 (0.62)	19.1 (0.75)
L3	25.4 (1.0)	25.4 (1.0)	25.4 (1.0)	38.1 (1.5)
L4	76.2 (3.0)	76.2 (3.0)	76.2 (3.0)	95.3 (3.75)
H	31.8 (1.24)	31.8 (1.24)	35.9 (1.41)	44 (1.72)
H1	26.0 (1.02)	27.95 (1.1)	31.95 (1.26)	40.0 (1.57)
H2	14.2 (0.55)	14.2 (0.55)	14.2 (0.55)	20 (0.78)
W	31.8 (1.23)	31.8 (1.23)	31.8 (1.23)	38 (1.48)
D	20.5 (0.81)	20.5 (0.81)	20.5 (0.81)	30.2 (1.19)
d	13 (0.51)	13 (0.51)	13 (0.51)	20.5 (0.8)
M	M12 1/2–20UNF	M12 1/2–20UNF	M12 1/2–20UNF	M20 3/4–20UNF





Wiring:

Adopt shielded, 4 or 6 conductor cable.

Standard cable length:

3 meter for 500kg ≈ 1t

6 meter for 2t ≈ 5t

Please visit our website WWW.ZEMIC.NL for the most actual information

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