

Type HM8 Load Cell



Short description



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



test certificate no. TC8103 Revision 0
C of C no. R60/2000-NL1-12.14

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	HM8-C3-25t-6.5B6
30t	C3 Excluded from OIML	HM8-C3-30t-6.5B6
50t	C3 Excluded from OIML	HM8-C3-50t-6.5B6

Specifications and dimensions are subject to change without notice and do not constitute any liability whatsoever.

Detailed specifications HM8

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, 50	5, 10, 15, 20, 25
Max.number of load cell intervals	n _{LC}	3000	
Ratio of min. LC verification interval	Y = E _{max} / v _{min}	10000	15000
Combined Error	%FS	≤± 0.0230	
Minimum dead load	Of E _{max}	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	
Input resistance	Ω	350 ± 3.5	
Output resistance	Ω	352 ± 3.0	
Insulation resistance	MΩ	≥5000 (at 50VDC)	
Compensated temperature	°C	-10 ~ +40	
Operating temperature	°C	-35 ~ +65	
Storage temperature	°C	-40 ~ +90	
Element material		Nickel plated alloy steel	
Ingress Protection (acc. To EN 60529)		IP68	
Recommended torque on fixation	Nm	M12: 100	M14:120 M20:500 M27:1075 M33:1975
ATEX classification (optional)		II1G Ex ia II1C T4	II1D Ex iaD 20 T73°C II3G nL IIC T4

Wiring

Wiring:

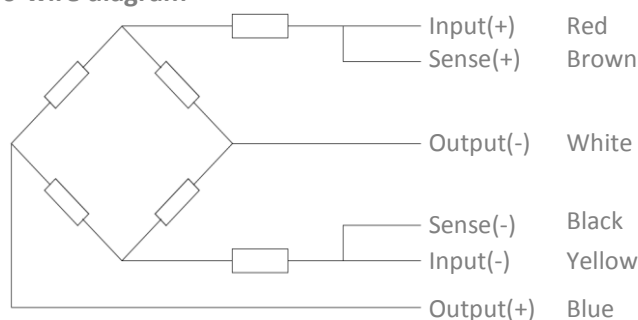
Shielded, 6 conductor cable.

Cable diameter: Ø6.2mm.

Standard cable length: 6.5m.

Shield not connected to element.

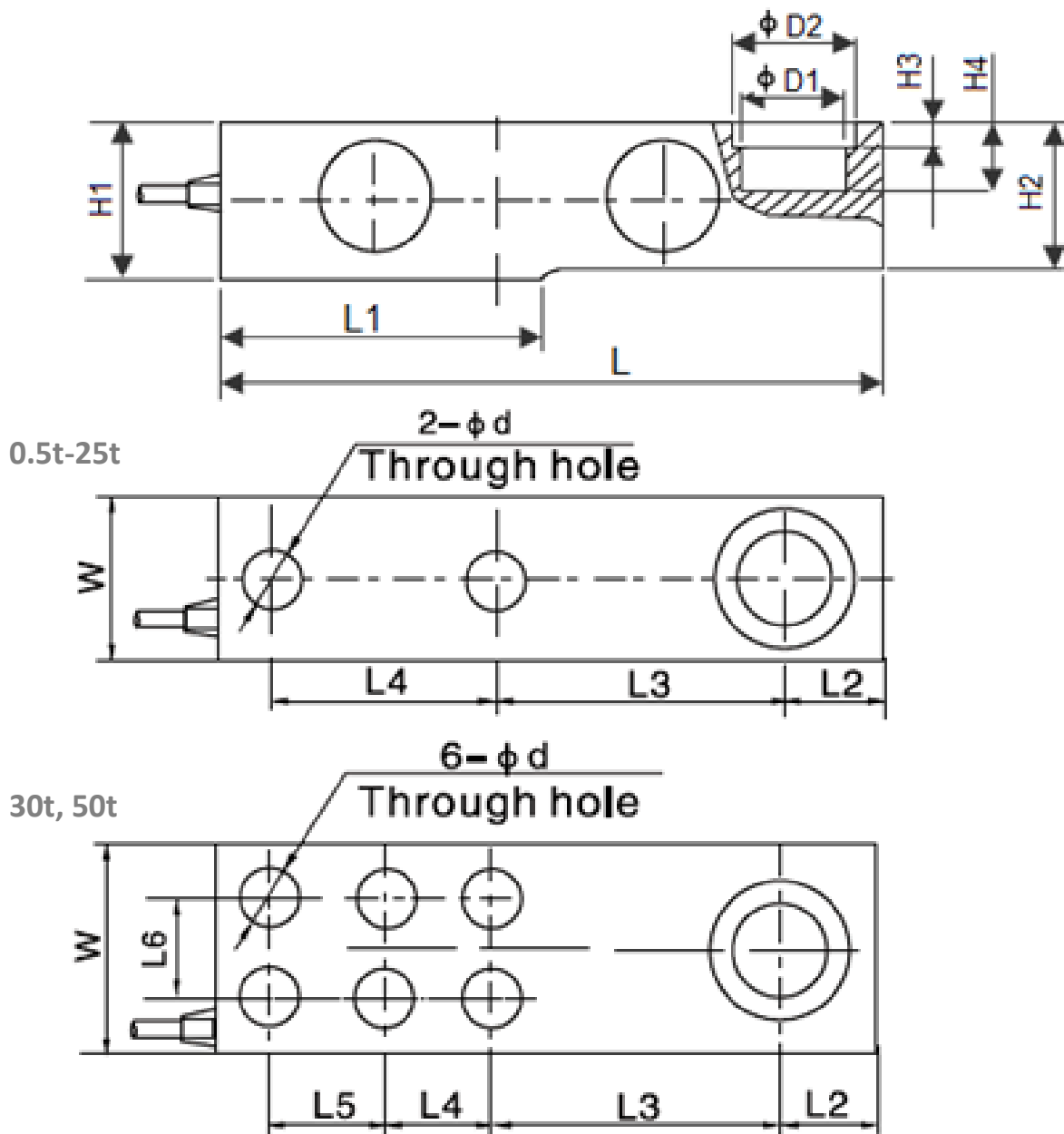
6-wire diagram



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Dimensions in mm

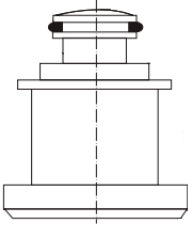
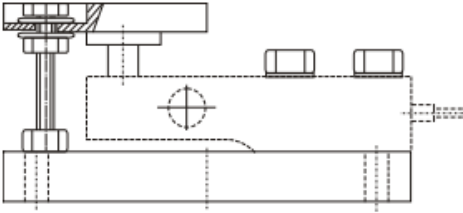
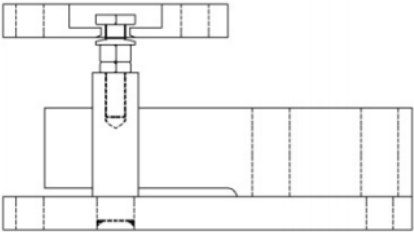


Dimension Capacity	H1	H2	H3	H4	$\phi D1$	$\phi D2$	ϕd	W	L	L1	L2	L3	L4	L5	L6
1t,2t	43	37	12.5	30	16	32	13	37	203	95	22	98	64	-	-
2.5t	43	37	12.5	30	16	32	15	37	203	95	22	98	64	-	-
3t	43	37	12.5	25	16	32	15	37	203	95	22	98	64	-	-
5t	52	48	12.5	30	22	38	21	48	235	110	22	124	66	-	-
10t	67	60	8.5	20	32	48	28	60	279	133	32	140	82	-	-
15t	67	60	8.5	20	32	48	28	60	279	133	32	140	82	-	-
20t, 25t	82.5	70	10	24	38	54	34	70	318	153	38	159	89	-	-
30t	115	90	14	32	38	54	26	96	374	189	44.5	181	76	51	46
50t	143	100	14	32	44	60	29	105	416	210	48	196	92	56	52

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Available accessories

HY-8-101-05-50t foot • Easy installation • Anti-corrosion • Good self-alignment ability • Mainly used for truck scales, platform scales and other electronic weighing devices	
HM-8-401-0.5-20t Mount • Easy installation • Anti-reversal ability • Anti-overloading ability • Good self-alignment ability • Using under heavy static or slight dynamic load	
HM-8-407-0.5-15t Mount • Alloy Steel • Good self-alignment ability • Lift-off protection	

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