H8

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



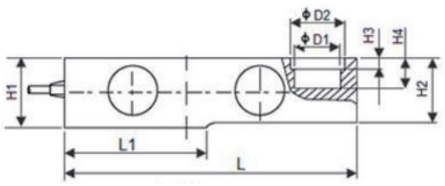
Available models		
Capacity	Accuracy	Full article description
500kg	C3 Excluded from OIML	H8–C3–500kg–4B6
1t	C3 Excluded from OIML	H8–C3–1t–4B6
2t	C3 Excluded from OIML	H8–C3–2t–4B6
2.5t	C3 Excluded from OIML	H8–C3–2.5t–4B6
3t	C3 Excluded from OIML	H8–C3–3t–4B6
5t	C3	H8–C3–5t–4B6
10t	C3	H8–C3–10t–4B6
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

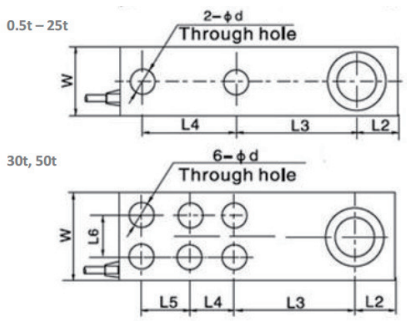
test certificate no. D09–05.20
C of C no R60/2000–CN1–06.09

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	℃	–10 ~+40		
Operating temperature	℃	–35 ~ +65		
Storage temperature	℃	–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)		II1G Ex ia IIC T4	II1D Ex iaD 20 T73℃	II3G Ex nL IIC T4

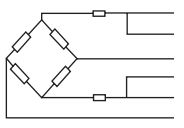
Dimensions in mm





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 in not connected to the element