

H8C



test certificate no. TC8012 Revision 1
C of C no R60/2000-NL1-12.12



Certificate no. 12-028

- 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)

Available models

Capacity	Accuracy	Full article description
100kg	C3/C4/C5	H8C-C3/C4/C5-100kg-4B(-SC-W6)
250kg	C3/C4/C5	H8C-C3/C4/C5-250kg-4B(-SC-W6)
500kg	C3/C4/C5	H8C-C3/C4/C5-500kg-4B(-SC-W6)
1t	C3/C4/C5	H8C-C3/C4/C5-1t-4B(-SC-W6)
1.5t	C3/C4/C5	H8C-C3/C4/C5-1.5t-4B(-SC-W6)
2t	C3/C4/C5	H8C-C3/C4/C5-2t-4B(-SC-W6)
2.5t	C3/C4/C5	H8C-C3/C4/C5-2.5t-4B(-SC-W6)
3t	C3/C4/C5	H8C-C3/C4/C5-3t-4B(-SC-W6)
5t	C3/C4/C5	H8C-C3/C4/C5-5t-4B(-SC-W6)
10t	C3/C4/C5	H8C-C3/C4/C5-10t-4B(-SC-W6)

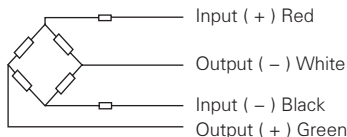
Specification

Accuracy class		OIML R60 C3	OIML R60 C4	OIML R60 C5
Output sensitivity (= FS)	mV/V	3.0 ± 0.003, 2.0 ± 0.002		
Maximum capacity (Emax)	t	0.1, 0.25, 0.5, 1, 1.5, 2, 2.5, 3, 5, 10		0.1,0.25,0.5, 3, 5, 1,1.5,2, 2.5, 10
Maximum number of load cell intervals (nLC)		3000	4000	5000
Ratio of minimum LC verification interval Y = Emax / vmin	Y	10.000	15.000	20.000 18.000
Combined error	%FS	± 0.023	± 0.0175	± 0.014
Minimum dead load	kg	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	350 ± 3.5		
Terminal resistance, output	Ω	350 ± 3.5		
Insulation impedance	MΩ	≥ 5000 (at 50VDC)		
Temperature range, compensated	°C	-10 ~ +40		
Temperature range, operating	°C	-35 ~ +65		
Storage temperature	°C	-40 ~ +80		
Element material		Nickel plated alloy steel		
Recommended torque on fixation bolts	N.m	M12: 100	M18:200	M24:700
Ingress Protection (according to EN 60529)		IP67		
ATEX classification (optional)		II1G Ex ia IIC T4	II1D Ex iaD 20 T73°C	II3G Ex nL IIC T4

Dimensions in mm

Dimension Capacity	L	L1	L2	L3	L4	H	Dimension Capacity	H1	W	W1	D	d	M
1t-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)	1t-2t	15.8 (0.62)	31.8 (1.25)	34.0 (1.34)	13.5 (0.53)	13.5 (0.53)	M12 x 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 x 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 x 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 x 1.75

Wiring



- Shielded, 4 conductor cable
- Cable diameter: Φ5mm.
- Standard cable length for 100kg - 2t: 4m and 6m for the higher capacities.
- Shield in not connected to the element.