

# H8C



- 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)



## Specification

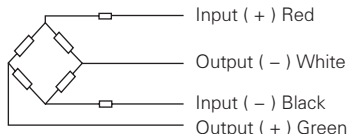
Maximum capacity ( Emax )	t	0.5/1/2/2.5/3/4/5/6/7.5				
	klb	1/1.5/2/2.5/3/4/5/7.5/10/20				
Accuracy class		C3	C4	C5	A5M	B10M
Approvals		OIML R60 C3	OIML R60 C4	OIML R60 C5	III 5000 Multiple	III L 10000 Multiple
Maximum number of load cell intervals ( nLC )		3000	4000	5000	5000	10000
Ratio of minimum LC verification interval Y = Emax / vmin		10000	14000	18000	15000	10000
Combined error	%FS	± 0.020	± 0.018	± 0.010	± 0.026	± 0.050
Creep	%FS/30min	± 0.016	± 0.012	± 0.010	± 0.017	± 0.040
Temperature effect on sensitivity	%FS/10°C	± 0.011	± 0.009	± 0.008	± 0.013	± 0.040
Temperature effect on zero	%FS/10°C	± 0.015	± 0.010	± 0.007	± 0.014	± 0.020
Output sensitivity ( = FS )	mV/V	3.0 ± 0.003		2.0 ± 0.002		
Input resistance	Ω	350 ± 3.5				
Output resistance	Ω	350 ± 3.5				
Insulation resistance	MΩ	≥ 5000(50VDC)				
Zero balance	%FS	± 1.0				
Compensated temperature	°C	-10 ~ +40				
Operating temperature	°C	-35 ~ +70				
Excitation, recommended voltage	V	5 ~ 12(DC)				
Excitation maximum	V	18(DC)				
Safe overload	%FS	150				
Ultimate overload	%FS	300				
Recommended torque on fixation	N.m	M12: 100, M18: 200, M24: 700				
Ingress protection (according to EN 60529)		IP67				
ATEX classification (optional)	Operating temperature	°C			-20 ~ +40	
		II1G Ex ia II1C T4			II1D Ex iaD20 T73°C	

\*S1\* Output Sensitivity is 2.0 ± 0.002MV/V

## Dimensions in mm

Dimension Capacity	L	L1	L2	L3	L4	H	Dimension Capacity	H1	W	W1	D	d	M
0.5t-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)	0.5t-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
Dimension Capacity	L	L1	L2	L3	L4	H	H1	W	W1	D	d	M	
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)	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.