

## Single Ended Beam Load Cell



### FEATURES

- Capacities: 250 - 5000kg
- Low profile, stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 4000d
- 1000Ω bridge impedance
- Current calibration output (SC version) ensures easy and accurate parallel connection of multiple load cells

### OPTIONAL FEATURE

- ATEX versions are available for use in potentially explosive atmospheres, caused by gas or dust

### DESCRIPTION

The HCB is a high performance stainless steel beam type load cell. An integral mounting step removes the need for spacer plates and ensures optimum "bolt down" conditions.

This product is suitable for small and medium platform scales, hybrid scales, pallet weighers and process weighing.

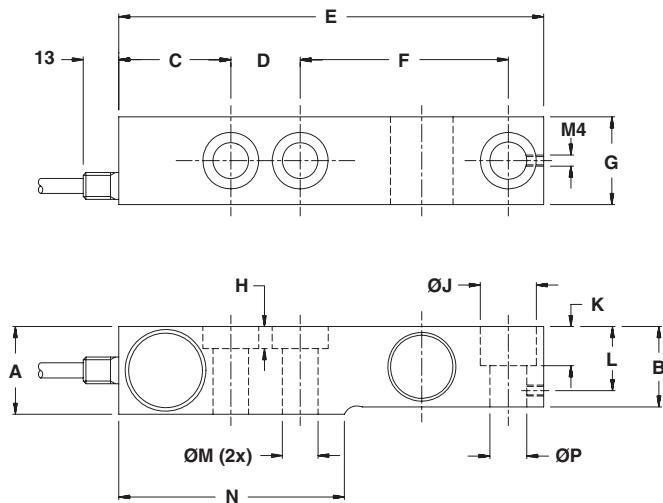
The fully welded construction and waterblock cable-entry ensure that this product can be used successfully in harsh environments found in the food, chemical and allied process industries.

This product meets the stringent Weights and Measures requirements throughout Europe.

### APPLICATIONS

- Floor scales
- Tank weighing
- Bin and hopper weighing

### OUTLINE DIMENSIONS in mm



Six-wire standard, four wire optional. Cable screen is not connected to load cell body.

#### Cable specifications:

Cable length:	3 m
Excitation +	Green
Excitation -	Black
Output +	White
Output -	Red
Sense +	Yellow
Sense -	Blue
Screen	Orange

Capacity (kg)	250	500	1000	2000	5000
A	31.8	31.80	31.80	35.80	44.0
B	25.2	26.10	29.15	34.00	40.0
C	41.0	41.0	41.0	41.0	19.1
D	25.4	25.4	25.4	25.4	38.1
E	155.5	155.5	155.5	155.5	172.0
F	76.2	76.2	76.2	76.2	95.3
G	31.8	31.8	31.8	31.8	38.0
H	8.0(2x)	8.0(2x)	8.0(2x)	8.0(2x)	-
J	20.5(3x)	20.5(3x)	20.5(3x)	20.5(3x)	30.2
K	13.2	14.2	14.2	14.2	20.0
L	23.2	23.2	23.2	23.2	30.0
M	13.0	13.0	13.0	13.0	20.5
N	82.6	82.6	82.6	82.6	76.2
P	13.5	13.5	13.5	13.5	17.5

**SPECIFICATIONS**

PARAMETER	VALUE			UNIT
Standard capacities ( $E_{max}$ )	250, 500, 1000, 2000, 5000			kg
Accuracy class according to OIML R-60	Non-Approved	C3	C4	C3MI6*
Max. no. of verification intervals		3000	4000	3000
Min. verification interval ( $V_{min}$ )		$E_{max}/10000$	$E_{max}/13500^{**}$	$E_{max}/15000$
MDLOR ( $Z=E_{max}/2^*DR$ )		--	--	6000
Min. verification interval , type MR*		$E_{max}/20000$	$E_{max}/20000$	--
Rated output (=S)		2		
Rated output tolerance		0.02		
Zero balance		1.0		
Combined error	0.0500	0.0200	0.0170	0.0200
Non-repeatability	0.0200	0.0100	0.0090	0.0100
Minimum dead load output return*	0.0500	0.0167	0.0125	0.0083
Creep error (30 minutes)	0.0600	0.0245	0.0184	0.0245
Temp. effect on min. dead load output	0.0250	0.0070	0.0050	0.0070
Temp. effect on min. dead load output MR*		0.0035	0.0035	0.0035
Temperature effect on sensitivity	0.0250	0.0045	0.0035	0.0035
Minimum dead load		0		
Maximum safe over load		150		
Ultimate over load		300		
Maximum safe side load		100		
Deflection at $E_{max}$		0.25 / 0.20 / 0.22 / 0.25 / 1.0		
Excitation voltage		5 to 12		
Maximum excitation voltage		15		
Input resistance		1000±10		
Output resistance		1000±10		
Insulation resistance		≥5000		
Compensated temperature range		-10 to +40		
Operating temperature range		-40 to +80		
Storage temperature range		-40 to +90		
Element material (DIN)		Stainless steel 1.4542		
Sealing (DIN 40.050 / EN60.529)		IP66 and IP68		
SC-Version (current calibration)		Standard		
Recommended torque on fixation bolts		50 - 75 (550 for 5t version )		

\* Not applicable for 5t version

\*\* 12500 for 5t version

FSO-Full Scale Output

SC-version: The rated output and the output resistance are balanced in such a way, that the output current is calibrated to within 0.05% of a reference value. This allows easy parallel connection of the load cells.