Shear beam load cells **65083**

available with certification • EAC • OIML • NTEP • FM

General information

PWS1420240319

The 65083 shear beam load cell has been designed for the weighing of hoppers and tanks and for the construction of low profile platforms, it has excellent characteristics of linearity, precision and resistance to 100% static lateral loads. The 65083 shear beam cell is made of stainless steel and is equipped with watertight protection for use in severe environmental conditions and shielded 4-conductor cable 6.6 meters long for electrical connections. Moreover, it is also available in a special version for high temperatures. The strength of the 65083 shear beam load cell is its unbeatable competitive price-quality ratio. In addition, mounting accessories MH MOUNTING KIT and MKX are available to facilitate assembly and installation.

Suggested related products

A highly performing weighing system must be accurate, perfectly calibrated and well maintained. In order to improve the load cell performance and to optimize its functioning, you may need the following products:

Weight Transmitter DAT 1400

Weight Indicator MCT 1302

Mounting kits MKX ®

Tester 1008 TESTER 1008

Junction Box CGS4-C

Double Shear Beam Load Cell DDR

All indicated data may be changed without notice.
All the measures indicated are expressed in millimeters (mm).

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Industrial Electronic Weighing Systems since 1963

Technical specifications

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Rated Load (RL):	0,5, 1, 2, 3, 5 t
Combined error:	±0.02 % RO
Repeatability:	±0.01 % RO
Creep (20 minutes):	±0.017 % RO
Safe overload:	150 % RL
Ultimate overload:	300 % RL
Clamping force without any load:	RL 500÷2000 kg: 136 Nm; RL 3000÷5000kg: 205 Nm
Material:	Stainless steel
Degree of protection:	IP68
Accuracy class:	3000 OIML
Deflection:	0.2 ÷ 1.4 mm
Compensated Temperature:	-10 ÷ +40°C
Temperature range:	-18 ÷ +65°C
Temperature effect on zero balance:	0.018 % RO/10°C
Temperature effect on output:	0.012 % output/10°C
Rated output RO:	2 mV/V ± 0.25%
Zero balance:	±1 % RO
Insulation resistance:	> 1000 M Ohm
Input resistance:	343 ÷ 357 Ohm
Output resistance:	349 ÷ 355 Ohm
Recommended input:	5 ÷ 15 Vdc/Vac

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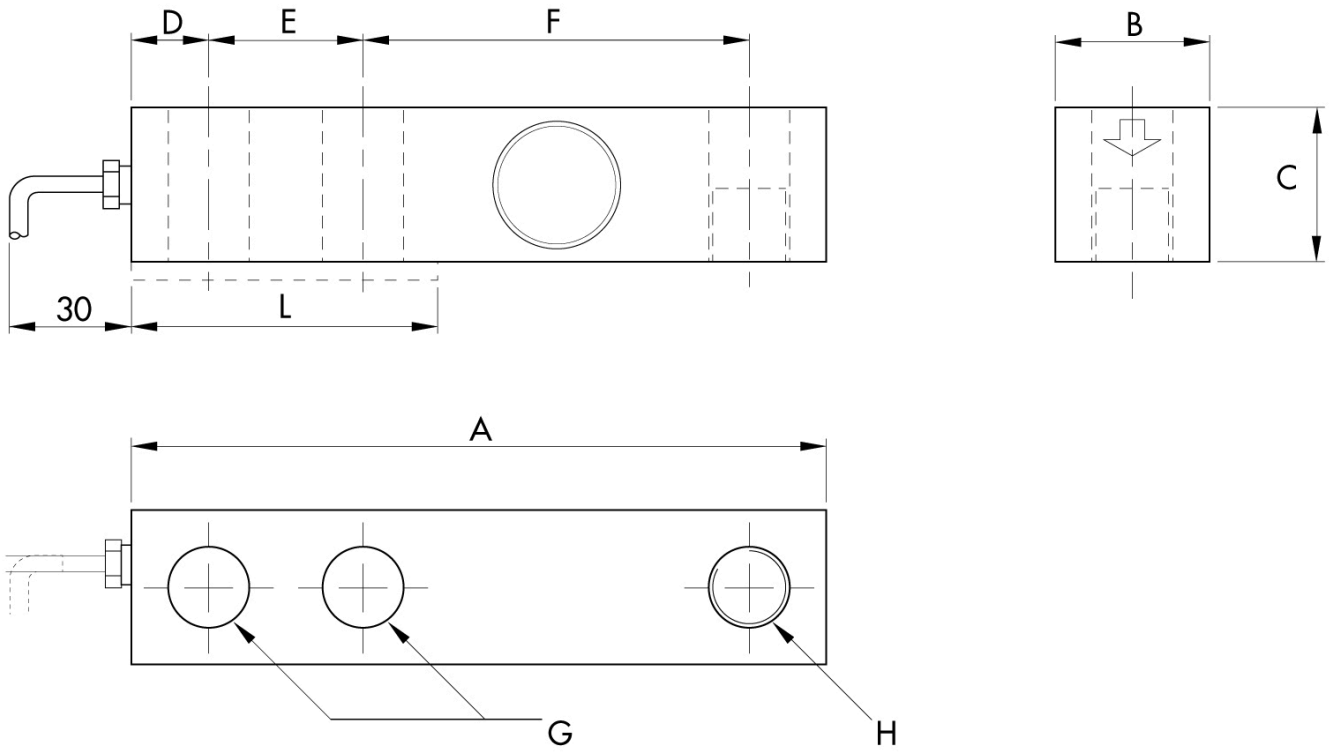

Electrical Connections	
+Excitation	Red
-Excitation	Black
+Signal	Green
-Signal	White
Shield	Cable Shield

CAPACITY kg	500-2000	3000-5000
A	130	171.5
B	31	38.1
C	31	38.1
D	15.8	19.1
E	25.4	38.1
F	76.2	95.3
G	13.5	20.6
H	M12x1.75	M20x2.5
L	57	76

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