

Single-Point Load Cell

FEATURES

- Capacities: 6–60 kg
- Fully-welded, stainless-steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 3000d
- Comprehensive mounting hole facility
- Moment insensitive, platform size to 350 x 350 mm
- **Optional**
 - FM Approved, ATEX and UKCA certified versions for use in potentially-explosive atmospheres
 - IP69K full hermetic construction with true glass-to-metal seal



APPLICATIONS

- Food platforms
- Process weighing
- Multi-head packaging machines
- Marine hybrid scales

The product is suitable for low capacity platform scales, multi-head packaging machines, check weighers, loss-in-weight feeders, belt scales, and general process weighing applications.

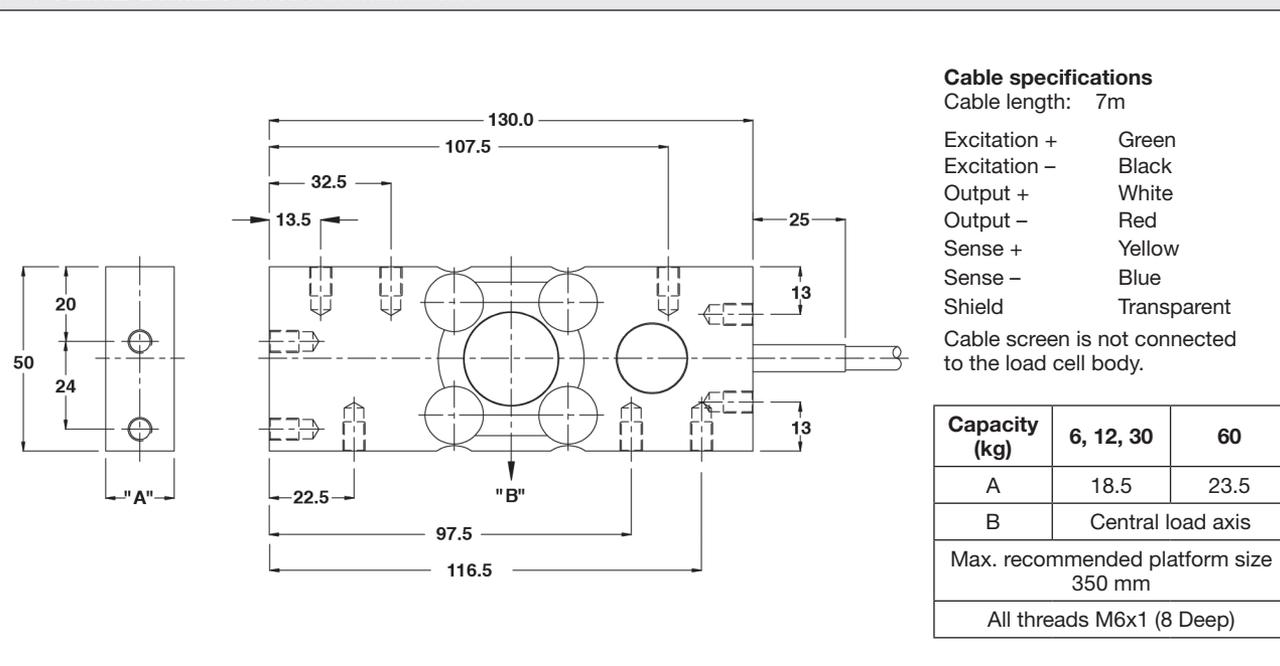
DESCRIPTION

Model HPS is a unique, fully-welded all-stainless-steel single-point (moment insensitive) load cell.

The unique construction ensures that this product can be used successfully in demanding environments found in the food, chemical, and allied industries.

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

OUTLINE DIMENSIONS in millimeters



Single-Point Load Cell

SPECIFICATIONS			
PARAMETER	VALUE		UNIT
Standard capacities (E _{max})	6, 12, 30, 60		kg
Accuracy class according to OIML R-60	Non-Approved	C3	
Max. no. of verification intervals	3000		
Min. verification interval (V _{min})	E _{max} /12000		
Rated output (=S)	2		mV/V
Rated output tolerance	0.2		±% mV/V
Zero balance	1.0		±% FSO
Combined error	0.0500	0.0200	±% FSO
Non-repeatability	0.0200	0.0100	±% FSO
Minimum dead load output return	0.0500	0.0167	±% applied load
Creep error (30 minutes)	0.0600	0.0245	±% applied load
Temperature effect on min. dead load output	0.0250	0.0058	±% FSO/5°C (°F)
Temperature effect on sensitivity	0.0250	0.0045	±% applied load/5°C (°F)
Eccentric load effect*	0.03		±% FSO
Minimum dead load	0		% E _{max}
Maximum safe overload	150		% E _{max}
Ultimate overload	300		% E _{max}
Maximum safe side load	100		% E _{max}
Deflection at E _{max}	0.24±0.02 / 0.19±0.01 / 0.15±0.01 / 0.22±0.03		mm
Excitation voltage	5 to 12		V
Maximum excitation voltage	15		V
Input resistance	400±6	400±6	Ω
Output resistance	350±7		Ω
Insulation resistance	≥5000		MΩ
Compensated temperature range	-10 to +40		°C
Operating temperature range	-40 to +80		°C
Storage temperature range	-40 to +90		°C
Element material (DIN)	Stainless steel 1.4542		
Sealing (DIN 40.050 / EN60.529)	IP66 and IP68		
Recommended torque on fixation bolts	6		N*m

* Applies at 50% x Rated Load at 150 mm radius

All specifications subject to change without notice.

CERTIFICATION MARKINGS

ATEX & UKEX Markings (For Zone 1, 2 and Zone 21, 22)

II 2 G Ex ib IIC T6...T4 Gb
 II 2 D Ex ib IIIC T70°C Db
 II 2 D Ex tb IIIC T70°C Db

II 3 G Ex ic IIC T6...T4 Gc or Ex nA IIC T6...T4 Gc
 II 3 D Ex ic IIIC T70°C Dc or Ex tc IIIC T70°C Dc

FM Approval Markings (USA and Canada)

IS Class I, II, III, Division 1, Groups A, B, C, D, E, F and G;
 NI Class I, Division 2, Groups A, B, C, and D;
 DIP Class II, III, Division 2, Groups F and G;
 T4;
 Ta = -25°C to +40°C;