



Product Description

The type PC30 is a stainless steel single point load cell with a high performance potting for superior environmental protection.

Application

- Retail scales and bench scales

Key Features

- Capacities from 7 kg to 100 kg
- Stainless steel construction
- Environmental Protection IP67
- Low profile design
- Maximum platform size up to 400 x 400 mm

Approvals

- OIML approval to C3 (Y = 10 000)

Option

- Y = 15 000 for C3

Packed Weight

- 1.0 kg

Available Accessories

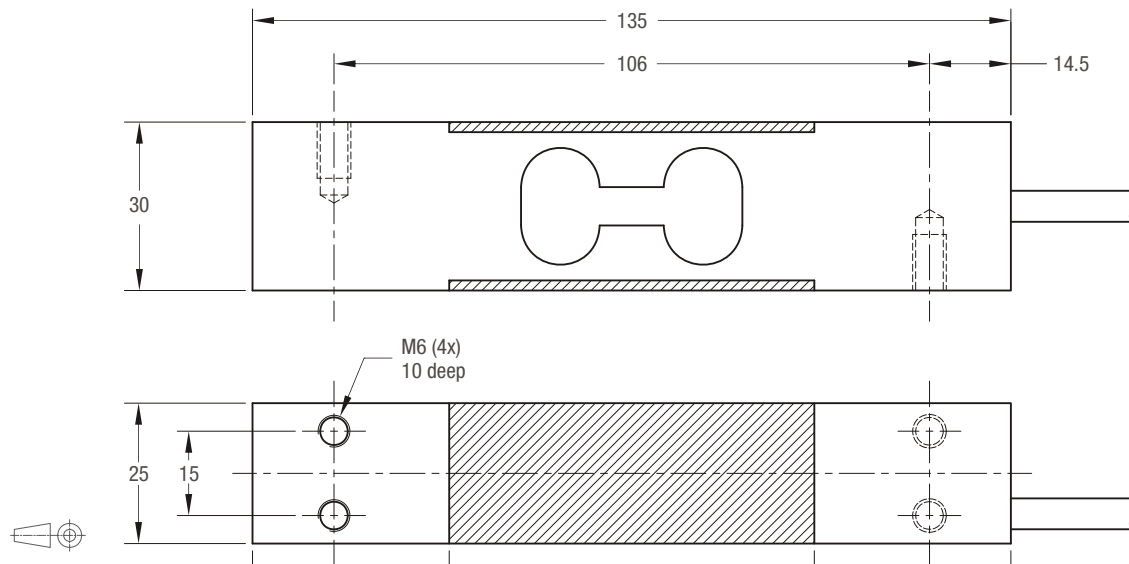
- Compatible range of electronics

Specifications

		(E _{max})	kg	7 / 10 / 15 / 20 / 30 / 50 / 100	10 / 15 / 20 / 30 / 50 / 100
Maximum capacity		(E _{max})	kg	7 / 10 / 15 / 20 / 30 / 50 / 100	10 / 15 / 20 / 30 / 50 / 100
Accuracy class according to OIML R60				(GP)	C3
Maximum number of verification intervals		(n _{LC})		n.a.	3000
Minimum load cell verification interval		(v _{min})		n.a.	E _{max} /10000
Temperature effect on minimum dead load output		(TC ₀)	%*RO/10°C	≤ ± 0.0400	≤ ± 0.0140
Temperature effect on sensitivity		(TC _{RO})	%*RO/10°C	≤ ± 0.0200	≤ ± 0.0100
Combined error			%*RO	≤ ± 0.0500	≤ ± 0.0200
Non-linearity			%*RO	≤ ± 0.0400	≤ ± 0.0166
Hysteresis			%*RO	≤ ± 0.0400	≤ ± 0.0166
Creep error (30 minutes) / DR			%*RO	≤ ± 0.0600	≤ ± 0.0166
Option	Min. load cell verification interval	(v _{min opt})		n.a.	E _{max} /15000
	Temp. effect on min. dead load output	(TC _{0 opt})	%*RO/10°C	n.a.	≤ ± 0.0093
Rated Output		(RO)	mV/V		2 ± 10%
Zero balance			%*RO		≤ ± 5
Excitation voltage			V		5...15
Input resistance		(R _{LC})	Ω		385 ± 10
Output resistance		(R _{out})	Ω		350 ± 10
Insulation resistance (100 V DC)			MΩ		≥ 5000
Safe load limit		(E _{lim})	%*E _{max}		150
Ultimate load			%*E _{max}		300
Safe side load			%*E _{max}		100
Maximum platform size; loading acc. to OIML R76			mm		400 x 400
Maximum off centre distance at maximum capacity			mm		135
Compensated temperature range			°C		-10...+40
Operating temperature range			°C		-20...+65
Load cell material					stainless steel 17-4 PH (1.4548)
Sealing					potted
Protection according EN 60 529					IP67

The limits for Non-Linearity, Hysteresis, and TC_{RO} are typical values.
The sum of Non-linearity, Hysteresis and TC_{RO} meets the requirements according to OIML R60 with p_{LC}=0.7.

Dimensions (in mm)



Mounting bolts M6 8.8; torque 10 Nm. Torque value assumes oiled threads.

Wiring

- The load cell is provided with a shielded, 6 conductor cable (AWG 26).
Cable jacket polyurethane
- Cable length: 1.5 m
- Cable diameter: 5.8 mm
- The shield is connected to the load cell body

