

## Product Description

The type PC12 is a stainless steel single point load cell with complete hermetic sealing. It is designed for dynamic weighing processes.

## Approvals

- ATEX hazardous area approval for Zone 0, 1, 2, 20, 21 and 22

## Application

- Check weighers and conveyor scales

## Packed Weight

- 1.6 kg

## Key Features

- Capacity of 20 kg
- Stainless steel construction
- Environmental Protection IP68 with complete hermetic sealing
- Maximum platform size up to 600 x 600 mm
- High input resistance

## Available Accessories

- Compatible range of electronics

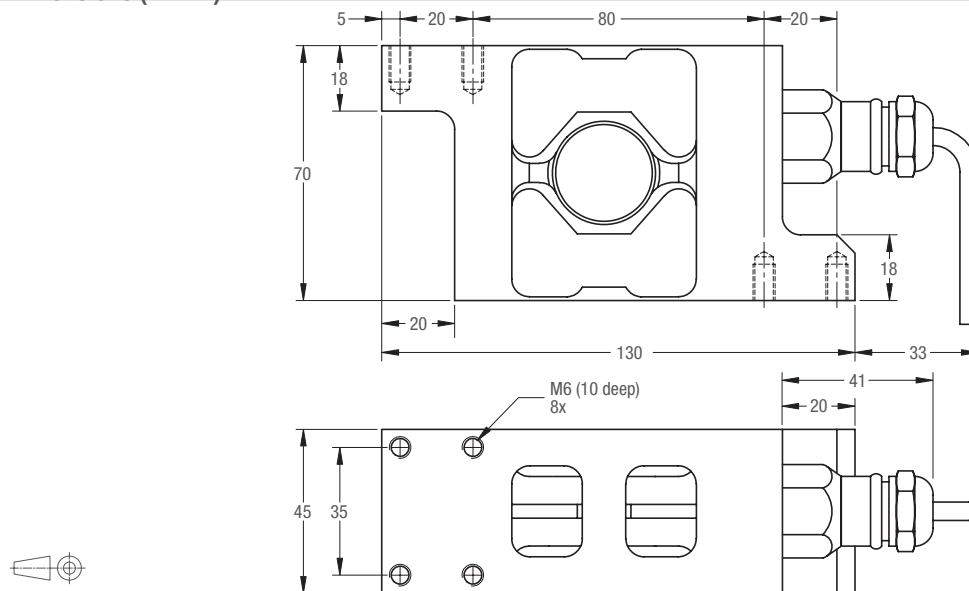
## Specifications

Maximum capacity	(E <sub>max</sub> )	kg		20
Accuracy class according to OIML R60			(GP)	G3*
Maximum number of verification intervals	(n <sub>LC</sub> )		n.a.	3 000
Minimum load cell verification interval	(V <sub>min</sub> )		n.a.	E <sub>max</sub> /20 000
Temperature effect on minimum dead load output	(TC <sub>0</sub> )	%*RO/10°C	± 0.0400	± 0.0070
Temperature effect on sensitivity	(TC <sub>RO</sub> )	%*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
Rated Output	(RO)	mV/V		2 ± 5%
Zero balance		%*RO		± 5
Excitation voltage		V		5...15
Input resistance	(R <sub>LC</sub> )	Ω		1 100 ± 50
Output resistance	(R <sub>out</sub> )	Ω		960 ± 50
Insulation resistance (100 V DC)		MΩ		≥ 5 000
Safe load limit	(E <sub>lim</sub> )	%*E <sub>max</sub>		200
Ultimate load		%*E <sub>max</sub>		300
Safe side load		%*E <sub>max</sub>		100
Maximum platform size; loading acc. to OIML R76		mm		600 x 600
Maximum off centre distance at maximum capacity		mm		200
Compensated temperature range		°C		-10...+40
Operating temperature range		°C		-40...+80 (ATEX -40...+60)
Load cell material				stainless steel 17-4 PH (1.4548)
Sealing				complete hermetic sealing; cable entry sealed by glass to metal header
Protection according EN 60 529				IP68 (up to 2 m water depth) / IP69K

\* corresponds to C3 quality, test certificate not available

The limits for Non-Linearity, Hysteresis, and TC<sub>RO</sub> are typical values.  
The sum of Non-linearity, Hysteresis and TC<sub>RO</sub> meets the requirements according to OIML R60 with p<sub>LC</sub>=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: 3 m
- Cable diameter: 5 mm
- The shield is floating

On request the shield can be connected to the load cell body

