



PC1 7.5 kg and 10 kg











#### **Product Description**

The type PC1 is a stainless steel single point load cell with an improved potting. It is suitable for use in industrial environments.

# Application

Bench and floor scales, conveyor scales

## **Key Features**

- Wide range of capacities from 7.5 kg to 200 kg
- Stainless steel construction
- Environmental Protection IP67 (IP65 for 7.5 kg and 10 kg)
- Maximum platform size up to 600 x 600 mm
- Integral mounting spacer

# **Approvals**

- OIML approval to C3, C3 MI6 and C4 (Y = 10000)
- NTEP approval to 4 500 intervals, Class III (for 7.5 kg to 75 kg)
- ATEX hazardous area approval for Zone 0, 1, 2, 20, 21 and 22
- FM hazardous area approval

#### **Options**

- Y = 15 000 for C3, C3 MI6 and C4
- M10 mounting threads available (only for 50 kg, 75 kg and 100 kg)

### **Packed Weight**

■ Capacity (kg) 7.5 - 100200 Weight (kg) 1.2 1.6

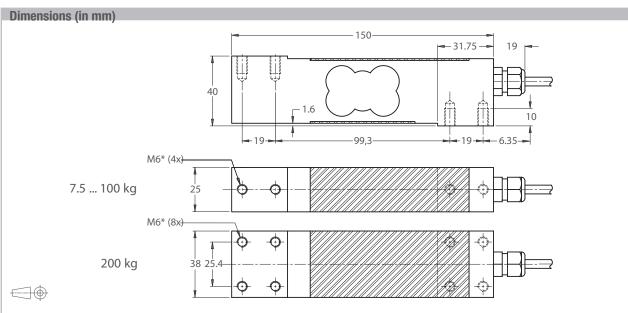
### **Available Accessories**

Compatible range of electronics



Specifications							
Maximum capacity (E <sub>max</sub> )			kg	7.5 / 10 / 15 / 30 / 50 / 75 / 100 / 200			
Accuracy class according to OIML R60				(GP)	C3	C3 MI 6	C4
Maximum number of verification intervals (n <sub>LC</sub> )				n.a.	3 000 4 000		4 000
Minimum load cell verification interval			n.a.	E <sub>max</sub> /10 000			
Temperature effect on minimum dead load output (TC <sub>0</sub> )			%*R0/10°C	± 0.0400	± 0.0140		
Temperature effect on sensitivity (TC <sub>RO</sub> )			%*R0/10°C	± 0.0200	± 0.0100 ± 0.0080		± 0.0080
Combined error			%*R0	± 0.0500	± 0.0200	± 0.0180	± 0.0180
Non-linearity			%*R0	± 0.0400	± 0.0166	± 0.0166	± 0.0125
Hysteresis			%*R0	± 0.0400	± 0.0166	± 0.0083	± 0.0125
Creep error (30 minutes) / DR		%*R0	± 0.0600	± 0.0166	± 0.0083	± 0.0125	
Option	Min. load cell verification interval	(Vmin opt)		n.a.	E <sub>max</sub> /15 000		
	Temp. effect on min. dead load output	(TC <sub>0 opt</sub> )	%*R0/10°C	n.a.	± 0.0093		
Rated Output (R0)		mV/V		2 ± 0.1			
Zero balance		%*R0	± 5				
Excitation voltage		V	515				
Input resistance (R <sub>LC</sub> )		Ω	390 ± 20				
Output resistance (Rout)		Ω	$330 \pm 25$				
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 according to OIML R76			mm	350x350 for 7.515 kg / 450x450 for 3075 kg / 600x600 for 100200 kg			
Maximum off center distance at maximum capacity			mm	115 for 7.515 kg / 150 for 3075 kg / 200 for 100200 kg			
Compensated temperature range			°C	-10+40			
Operating temperature range			°C	-20+65 (ATEX -20+60)			
Load cell material				stainless steel 17-4 PH (1.4548)			
Sealing				plastic covered			
Protection according EN 60 529				IP67*			

The limits for Non-Linearity, Hysteresis, and  $TC_{R0}$  are typical values. The sum of Non-linearity, Hysteresis and  $TC_{R0}$  meets the requirements according to OIML R60 with p<sub>LC</sub>=0.7. \* **Attention:** IP65 for 7.5 kg and 10 kg



PC1:

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

\* Unified thread 1/4-20 UNC is available.
Mounting bolts M10 8.8; torque 50 Nm (50/75/100 kg). Torque value assumes oiled threads.
If countersunk mounting screws are used, ask for detailed drawing. PC1B:

## Wiring

■ The load cell is provided with a shielded, 4 conductor cable (AWG 24). Cable jacket polyurethane

Cable length: 3 m ■ Cable diameter: 5 mm

■ The shield is connected to the load cell body

