

Type PC12 Load Cell



Flintec load cells are designed to meet the most stringent accuracy requirements. Certifications have been obtained from Weights & Measures Authorities, worldwide.

PC12 platform load cell is available in the capacity 20 kg and include Accuracy Classifications C3, C3 MI 6, and C4 with Y=20000 according to OIML R 60.

They offer total stainless steel construction and complete hermetic sealing, making them suitable for use in the toughest industrial environments.

Designed to withstand shock and fatigue loading.

The off center load performance according OIML allows a maximum platform size of 600 x 600 mm.

The PC12 is available for use in hazardous areas zone 0, 1, 2 (gas) and 20, 21, 22 (dust) according to EEx ia IIC T6...T4 T130°C ATEX.

Important Features

- Capacity 20 kg.
- High accuracy.
- Total stainless steel construction.
- Complete hermetic sealing.
- Protection IP 68.
- Maximum platform size 600 x 600 mm.
- High input resistance: 1100 Ω.
- W&M certified for 4000 intervals and Y=20000 (in preparation).
- Easy cable replacement.

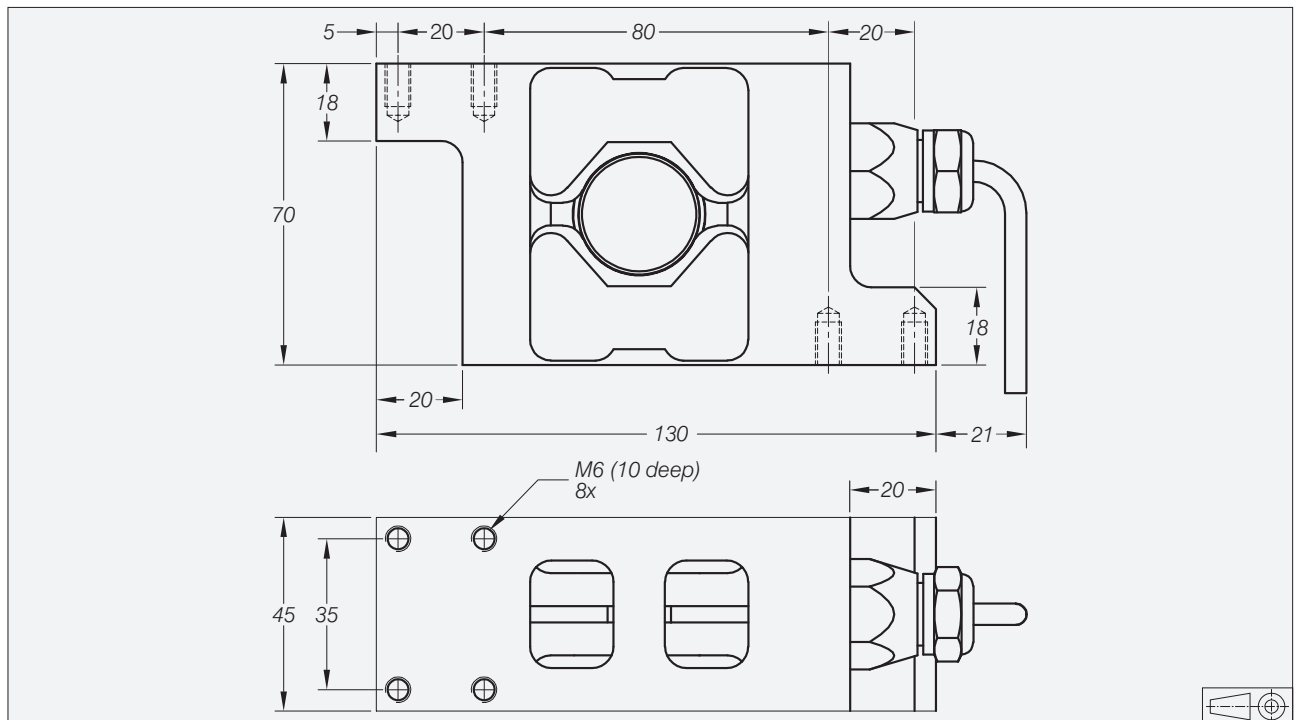
Option

- Explosion protection zone 0, 1, 2 and 20, 21, 22 ATEX.

PC12 Specifications

Maximum capacity (E _{max})	kg	20		
Rated Output (Cn)	mV/V	2 ± 5%		
Accuracy class according to OIML R 60		C3	C3 MI 6	C4
Maximum number of verification intervals (n _{max})		3000	3000	4000
Minimum load cell verification interval (v _{min})		E _{max} /20000		
Combined error	%Cn	≤ ± 0.020	≤ ± 0.020	≤ ± 0.018
Creep error (30 minutes) / DR	%Cn	≤ ± 0.016	≤ ± 0.008	≤ ± 0.012
Temperature effect on minimum dead load output	%Cn/°C	≤ ± 0.0006	≤ ± 0.0006	≤ ± 0.0006
Temperature effect on sensitivity	%/°C	≤ ± 0.0011	≤ ± 0.0011	≤ ± 0.0008
Excitation voltage	V	5...15		
Zero balance	%Cn	≤ ± 5		
Input resistance	Ω	1100 ± 50		
Output resistance	Ω	960 ± 50		
Insulation resistance (100 DC)	MΩ	≥ 5000		
Compensated temperature range	°C	-10...+40		
Operating temperature range	°C	-40...+80		
Safe load limit (E _{lim})	%E _{max}	200		
Ultimate load	%E _{max}	300		
Safe side load	%E _{max}	100		
Maximum platform size; loading according OIML	mm	600 x 6 00		
Maximum off center distance at maximum capacity	mm	200		
Load cell material		stainless steel 17-4 PH (1.4548)		
Sealing		complete hermetic sealing; cable entry sealed by glass to metal header		
Protection according DIN 40.050		IP 68		

Dimensions



All dimensions in mm. Dimensions and specifications are subject to change without notice.

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

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 floating.

(On request 6 conductor cable and the shield connected to the load cell body available)

