

Type PC6 Load Cell



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

PC6 platform load cells are available in the capacities 20 kg to 200 kg and include Accuracy Classifications GP, C3, C3 MI 6 and C4 according to OIML R 60.

Optionally C3, C3 MI 6 and C4 with Y=20000.

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 00 mm.

The PC6 is available for use in hazardous areas zone 1, 2 (gas) and 21, 22 (dust) according to EEx ia IIC T6...T4 T130°C ATEX.

Important Features

- Capacities: 20 kg to 200 kg.
- High accuracy.
- Total stainless steel construction.
- Complete hermetic sealing.
- Protection IP 68.
- Maximum platform size 600 x 600 mm.
- Integral mounting spacer.
- High input resistance: 1100 Ω .
- W&M certified for 4000 intervals.
- Easy cable replacement.
- Factory mutual approved.

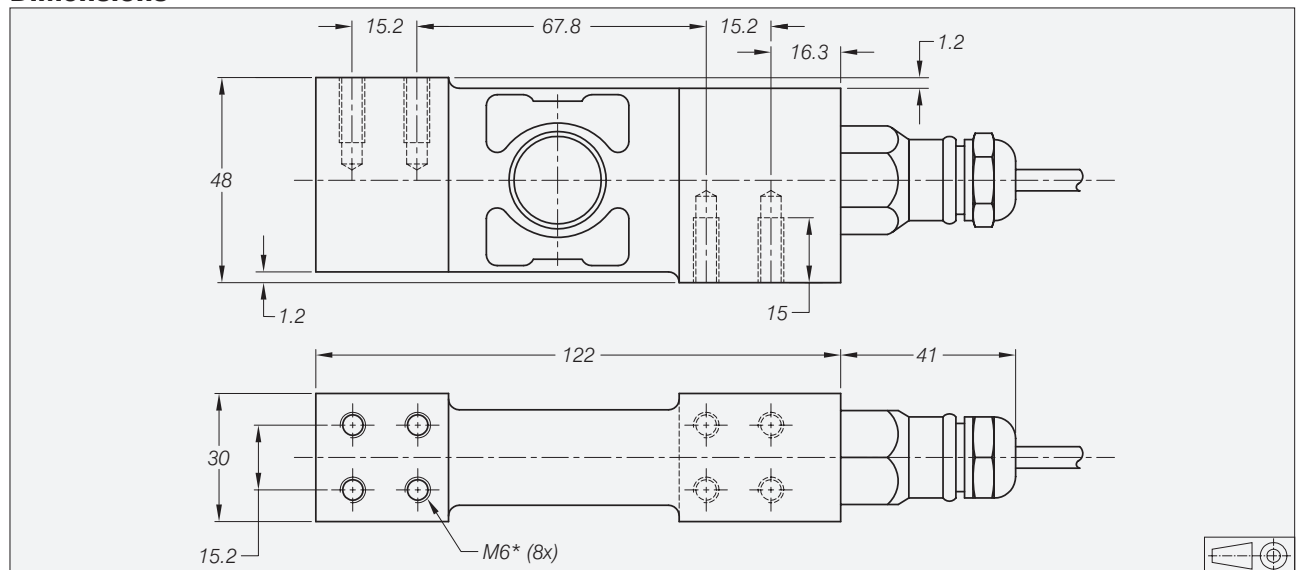
Option

- Explosion protection zone 1, 2, 21 and 22 ATEX.
- C3, C3 MI 6 and C4 with Y=20000.

PC6 Specifications

Maximum capacity (=E _{max})	kg	20 / 50 / 100 / 200			50 / 100 / 200
Rated Output (=RO)	mV/V	2 ± 5%			
Accuracy class according to OIML R 60		(GP)	C3	C3 MI 6	C4
Maximum number of verification intervals (n)		n.a.	3000	3000	4000
Minimum load cell verification interval (v _{min})		n.a.	E _{max} /10000		
Temperature effect on minimum dead load output	%RO/°C	≤ ± 0.0040	≤ ± 0.0012	≤ ± 0.0012	≤ ± 0.0012
Option (only 20/50/100 kg)	Min. load cell verification interval (v _{min})	n.a.	E _{max} /20000		
	Temp. effect on min. dead load output	%RO/°C	n.a.	≤ ± 0.0006	≤ ± 0.0006
Combined error	%RO	≤ ± 0.040	≤ ± 0.020	≤ ± 0.020	≤ ± 0.018
Creep error (30 minutes) / DR	%RO	≤ ± 0.060	≤ ± 0.016	≤ ± 0.008	≤ ± 0.012
Temperature effect on sensitivity	%/°C	≤ ± 0.0020	≤ ± 0.0011	≤ ± 0.0011	≤ ± 0.0008
Excitation voltage	V	5...15			
Zero balance	%RO	≤ ± 1.0			
Input resistance	Ω	1106 ± 10			
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 _{max}	200			
Ultimate load	%E _{max}	300			
Safe side load	%E _{max}	100			
Maximum platform size; loading according OIML	mm	600 x 600			
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.

* Unified thread 1/4-20 UNC is available.

Wiring

- The load cell is provided with a shielded, 4 conductor cable (AWG 24).
- Cable length: 3 m.
- Cable diameter: 5 mm.
- The shield is floating.

