

Type PC2 kg Load Cell



Flintec load cells are designed to meet the most stringent accuracy requirements.

The PC2 load cell is available in the capacities 20 and 150 kg and include Accuracy Classifications GP and C3 according to OIML R 60.

Total stainless steel construction and complete hermetic sealing, making the cell suitable for use in the toughest industrial environments.

Designed to withstand shock and fatigue loading.

Applications are platform scales, hopper and tank weighing systems.

The off center load performance according OIML allows a maximum platform size of 1000 x 1000 mm.

The PC2 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

- Capacities 20 and 150 kg.
- High accuracy.
- Total stainless steel construction.
- Complete hermetic sealing.
- Protection IP 68.
- Maximum platform size 1000 x 1000 mm.
- High input resistance: 1100 Ω.
- No additional flexures required.
- Easy cable replacement.
- Factory Mutual approved.

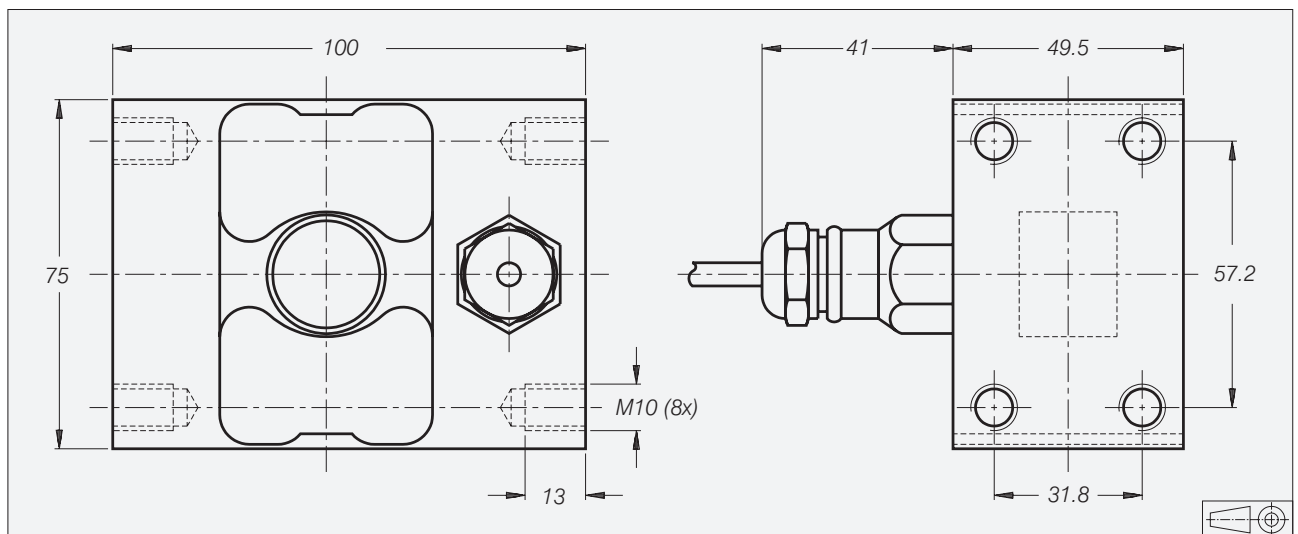
Option

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

PC2 Specifications

Maximum capacity	(E _{max})	kg	20 / 150	
Rated Output	(Cn)	mV/V	2 ± 5%	
Accuracy class according to OIML R 60			(GP)	C3
Maximum number of verification intervals	(n _{max})		n.a.	3000
Minimum load cell verification interval	(v _{min})		n.a.	E _{max} /10000
Combined error	%Cn		≤ ± 0.040	≤ ± 0.020
Creep error (30 minutes)	%Cn		≤ ± 0.060	≤ ± 0.016
Temperature effect on minimum dead load output	%Cn/°C		≤ ± 0.0040	≤ ± 0.0012
Temperature effect on sensitivity	%/°C		≤ ± 0.0020	≤ ± 0.0011
Excitation voltage	V		5...15	
Zero balance	%Cn		≤ ± 5	
Input resistance	Ω		1100 ± 50	
Output resistance	Ω		960 ± 50	
Insulation resistance	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 600 for 20kg / 1000 x 1000 for 150 kg	
Maximum off center distance at maximum capacity	mm		250 for 20 kg / 400 for 150 kg	
Load cell material			stainless steel 17-4 PH (1.4548)	
Sealing			complete hermetic sealing; cable entry sealed by using a glass to metal header	
Protection according DIN 40.050			IP 68	

Dimensions

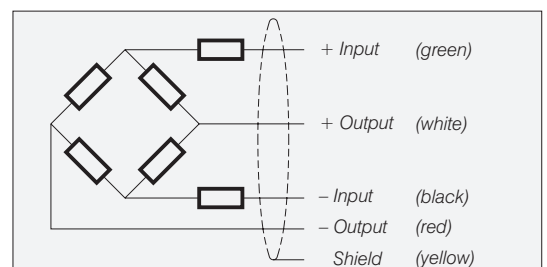


All dimensions in mm. Dimensions and specifications are subject to change without notice.

Mounting bolts M10 8.8; torque 50 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 the shield can be connected to the load cell body).



Type PC2H Load Cell



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

This PC2H load cell is available in the capacity 2000 kg and include Accuracy Classification GP and C3 according to OIML R 60.

Total stainless steel construction and complete hermetic sealing, making the cell suitable for use in the toughest industrial environments.

Designed to withstand shock and fatigue loading.

Applications are on-board weighing, platform scales, hopper and tank weighing systems.

The off center load performance according OIML allows a maximum platform size of 1200 x 1200 mm.

The PC2H 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 2000 kg.
- High accuracy.
- Total stainless steel construction.
- Complete hermetic sealing.
- Protection IP 68.
- W&M certified for 3000 intervals (in preparation).
- Maximum platform size 1200 x 1200 mm.
- High input resistance: 1100 Ω.
- No additional flexures required.

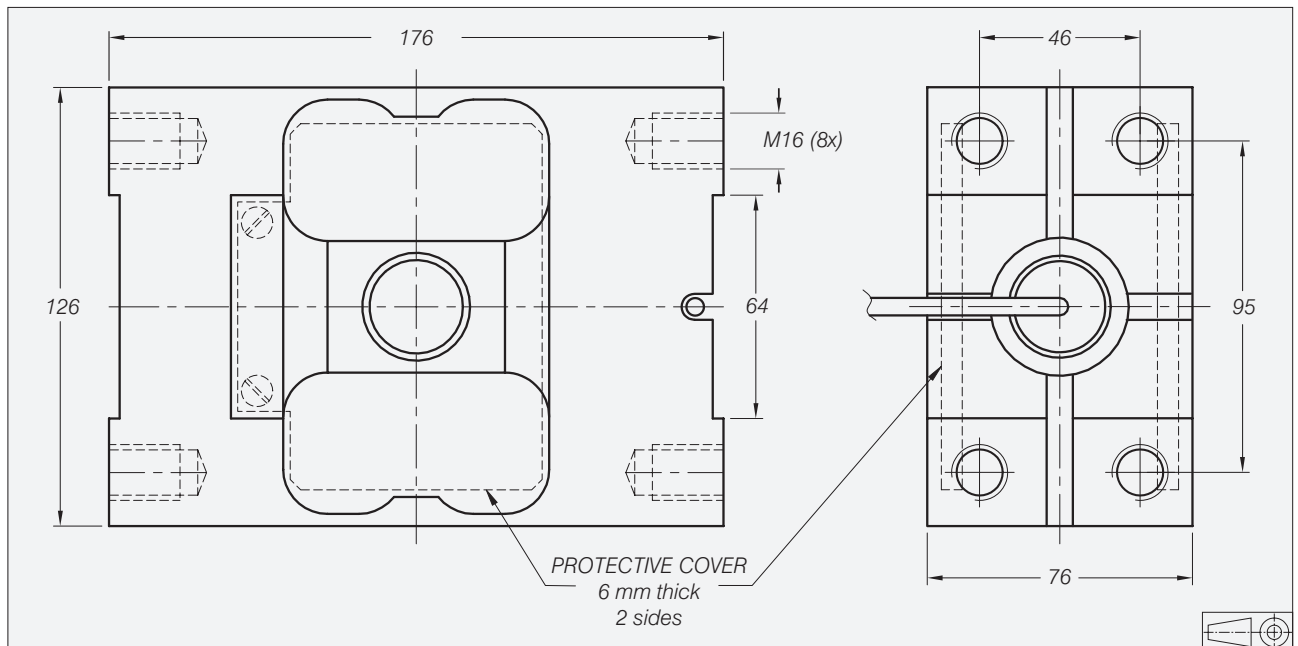
Option

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

PC2H Specifications

Maximum capacity	(E _{max})	kg	2000	
Rated Output	(Cn)	mV/V	2 ± 10%	
Accuracy class according to OIML R 60			(GP)	C3
Maximum number of verification intervals	(n _{max})		n.a.	3000
Minimum load cell verification interval	(v _{min})		n.a.	E _{max} /10000
Combined error		%Cn	< ± 0.040	< ± 0.020
Creep error (30 minutes) / DR		%Cn	< ± 0.060	< ± 0.016
Temperature effect on minimum dead load output		%Cn/°C	< ± 0.0040	< ± 0.0012
Temperature effect on sensitivity		%/°C	< ± 0.0020	< ± 0.0011
Excitation voltage		V	5...15	
Zero balance		%Cn	< ± 5	
Input resistance		Ω	1100 ± 50	
Output resistance		Ω	960 ± 50	
Insulation resistance		MΩ	> 5000	
Compensated temperature range		°C	-10...+40	
Operating temperature range		°C	-40...+80	
Safe load limit	(E _{lim})	%E _{max}	150	
Ultimate load		%E _{max}	300	
Safe side load		%E _{max}	100	
Maximum platform size; loading according OIML		mm	1200 x 1200	
Maximum off center distance at maximum capacity		mm	400	
Load cell material			stainless steel 17-4 PH (1.4548)	
Sealing			hermetic sealing; cable entry sealed by using cable gland PG7 and potting	
Protection according DIN 40.050			IP 68	

Dimensions



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

Mounting bolts M16 8.8; torque 200 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 the shield can be connected to the load cell body).

