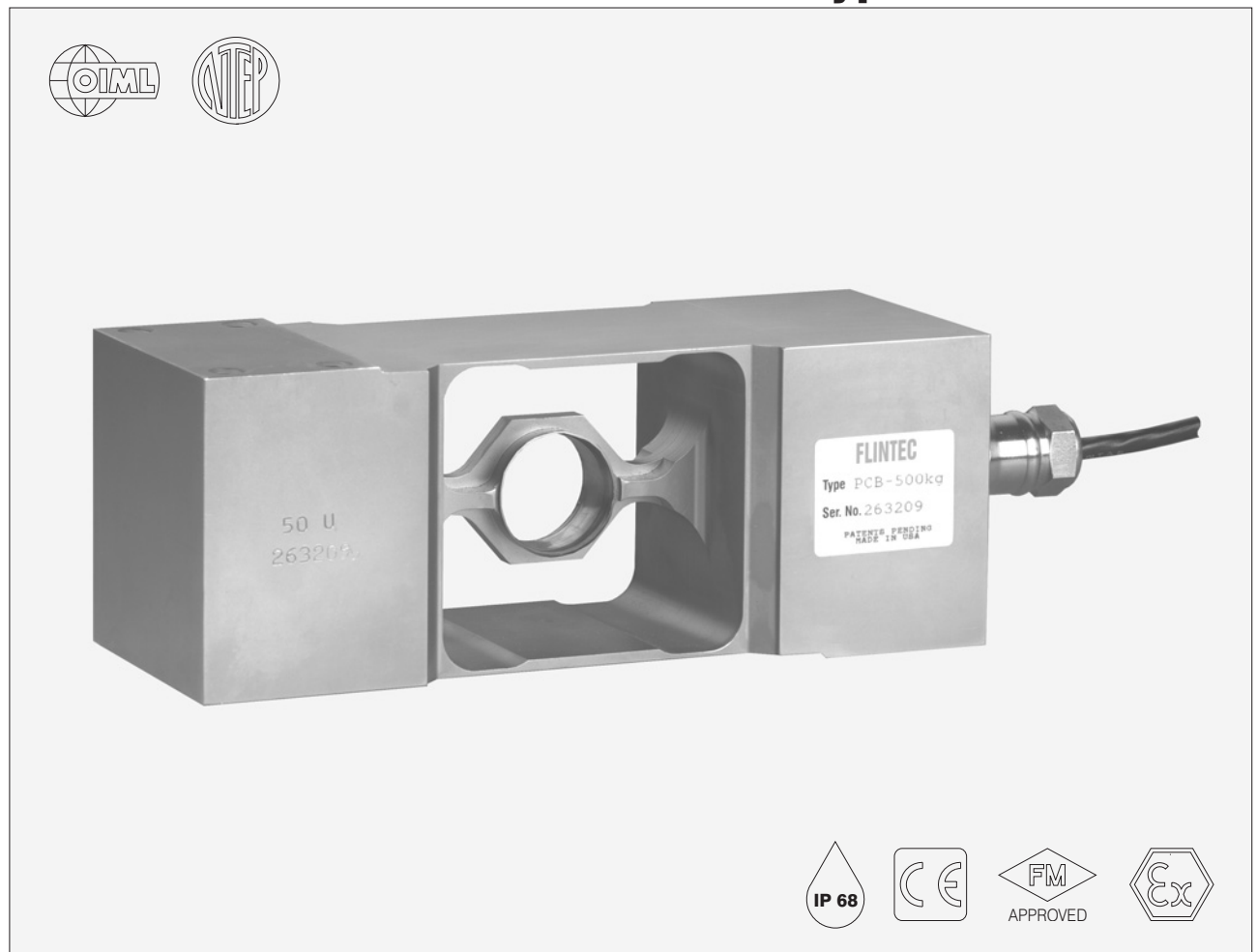


## Type PCB Load Cell



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

PCB load cells are available in the capacities 50 kg to 1000 kg and include Accuracy Classifications GP, C3 and C3 MI 6 according to OIML R 60; NTEP  $n_{max}=3000$ .

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.

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 version PCBB is available with M12 thread in the capacities 500 kg and 1000 kg.

The PCB / PCBB 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: 50 kg to 1000 kg.
- High accuracy.
- Total stainless steel construction.
- Complete hermetic sealing.
- Protection IP 68.
- Maximum platform size 1000 x 1000 mm.
- High input resistance: 1100  $\Omega$ .
- W&M certified for 3000 intervals.
- No additional flexures required.
- Easy cable replacement.
- Factory mutual approved.

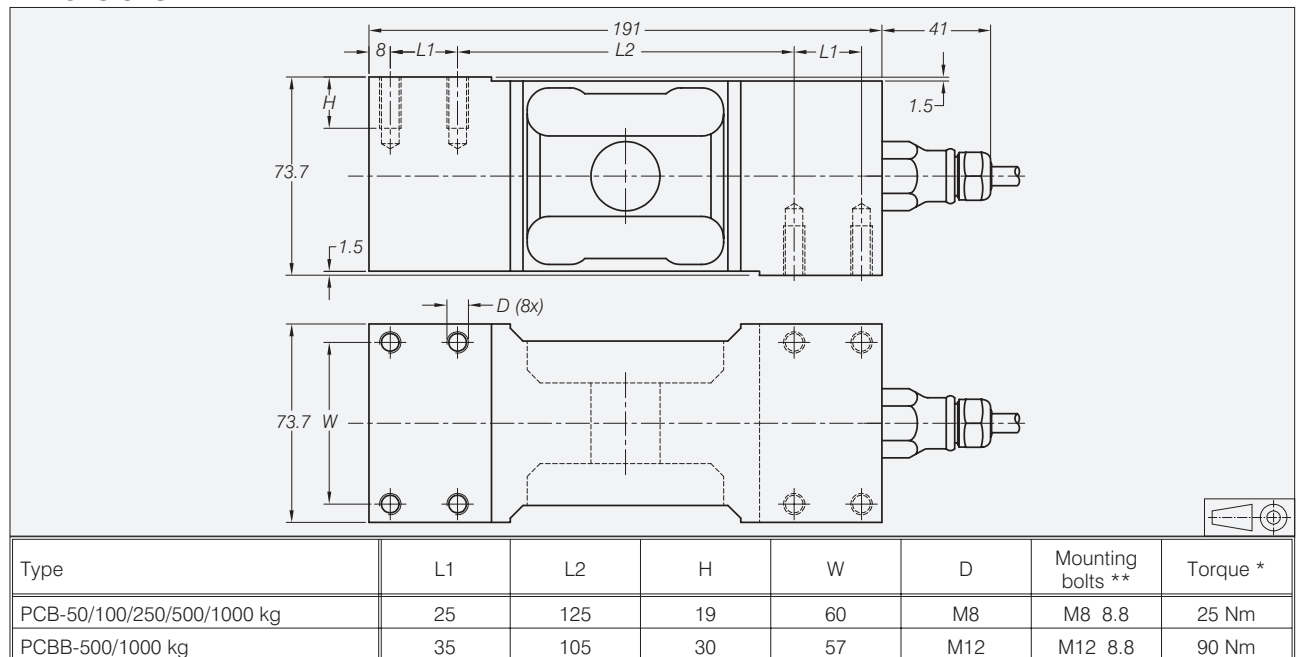
### Option

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

## PCB Specifications

Maximum capacity (=E <sub>max</sub> )	kg	50 / 100 / 250 / 500 / 1000		250 / 500 / 1000
Rated Output (=RO)	mV/V	2 ± 5%		
Accuracy class according to OIML R 60		(GP)	C3	C3 MI 6
Maximum number of verification intervals (n)		n.a.	3000	3000
Minimum load cell verification interval (v <sub>min</sub> )		n.a.	E <sub>max</sub> /12500	E <sub>max</sub> /12500
Combined error	%RO	≤ ± 0.040	≤ ± 0.020	≤ ± 0.020
Creep error (30 minutes) / DR	%RO	≤ ± 0.060	≤ ± 0.016	≤ ± 0.008
Temperature effect on minimum dead load output	%RO/°C	≤ ± 0.0040	≤ ± 0.0011	≤ ± 0.0011
Temperature effect on sensitivity	%/°C	≤ ± 0.0020	≤ ± 0.0011	≤ ± 0.0011
Excitation voltage	V	5...15		
Zero balance	%RO	≤ ± 1.0		
Input resistance	Ω	1106 ± 10		
Output resistance	Ω	960 ± 50		
Insulation resistance (100 V DC)	MΩ	≥ 5000		
Compensated temperature range	°C	-10...+40		
Operating temperature range	°C	-40...+80		
Safe load limit	%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 OIML	mm	1000 x 1000		
Maximum off center distance at maximum capacity	mm	400		
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



Dimensions and specifications are subject to change without notice.

\* Torque values assume oiled threads.

\*\* Unified thread 5/16-18 UNC is available (PCB only).

## 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.

