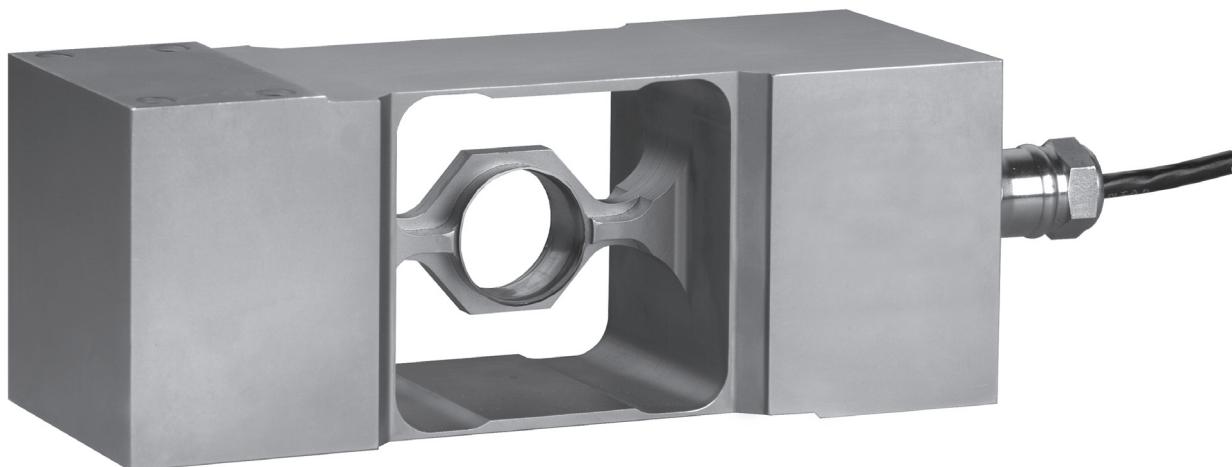


## Type PCB Load Cell



### Product Description

The type PCB is a stainless steel single point load cell with complete hermetic sealing. It is a perfect fit for use in harsh industrial environments.

### Application

- Bench and floor scales, packaging machines and conveyor scales

### Key Features

- Wide range of capacities from 50 kg to 1 000 kg
- Stainless steel construction
- Environmental Protection IP68 with complete hermetic sealing
- Maximum platform size up to 1 000 x 1 000 mm
- High input resistance
- Integral mounting spacer

### Approvals

- OIML approval to C3 and C3 MI6 (Y = 12 500)
- NTEP approval to 3 000 intervals, Class III
- ATEX hazardous area approval for Zone 0, 1, 2, 20, 21 and 22
- FM hazardous area approval

### Option

- Y = 20 000 for C3 and C3 MI6

### Packed Weight

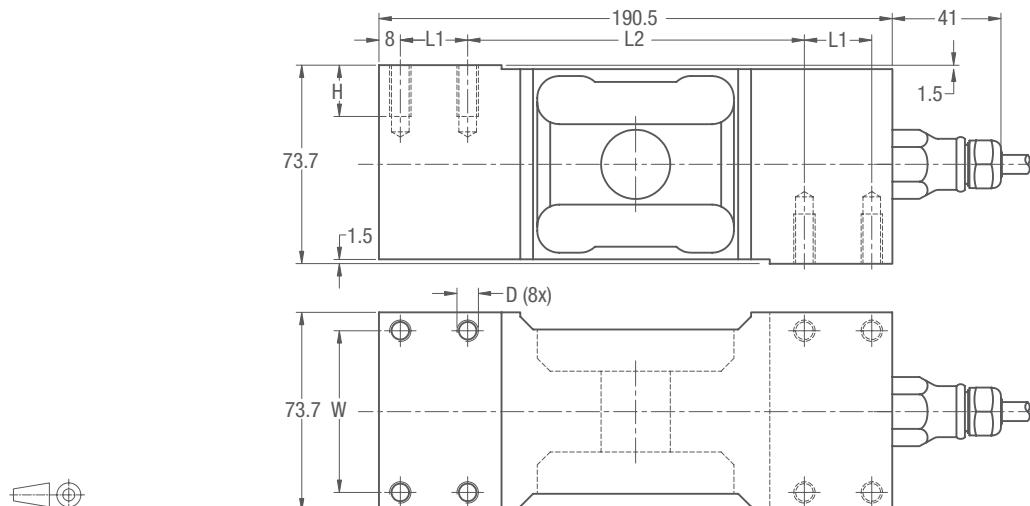
Capacity (kg)	50	100	250	500	1 000
Weight (kg)	5.4	5.4	5.7	5.7	5.8

### Available Accessories

- Compatible range of electronics

**PCB Specifications**

Maximum capacity (E <sub>max</sub> )		kg	50 / 100 / 250 / 500 / 1000				
Accuracy class according to OIML R60 (n <sub>LC</sub> )			(GP)	C3	C3 MI 6		
Maximum number of verification intervals (n <sub>LC</sub> )		n.a.	3 000				
Minimum load cell verification interval (V <sub>min</sub> )		n.a.	E <sub>max</sub> /12 500				
Temperature effect on minimum dead load output (T <sub>C0</sub> )		%*RO/10°C	≤ ± 0.0400	≤ ± 0.0112	≤ ± 0.0011		
Temperature effect on sensitivity (T <sub>CR0</sub> )		%*RO/10°C	≤ ± 0.0200	≤ ± 0.0100	≤ ± 0.0011		
Combined error		%*RO	≤ ± 0.0500	≤ ± 0.0200	≤ ± 0.0180		
Non-linearity		%*RO	≤ ± 0.0400	≤ ± 0.0166	≤ ± 0.0166		
Hysteresis		%*RO	≤ ± 0.0400	≤ ± 0.0166	≤ ± 0.0083		
Creep error (30 minutes) / DR		%*RO	≤ ± 0.0600	≤ ± 0.0166	≤ ± 0.0083		
Option	Min. load cell verification interval (V <sub>min opt</sub> )		n.a.	E <sub>max</sub> /20 000			
	Temp. effect on min. dead load output (T <sub>C0 opt</sub> )	%*RO/10°C	n.a.	≤ ± 0.0070			
Rated Output (RO)		mV/V	2 ± 5%				
Zero balance		%*RO	≤ ± 5				
Excitation voltage		V	5...15				
Input resistance (R <sub>LC</sub> )		Ω	1 100 ± 50				
Output resistance (R <sub>out</sub> )		Ω	960 ± 50				
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 acc. to OIML R76		mm	600 x 600 for 50 kg / 800 x 800 for 100...500 kg / 1 000 x 1 000 for 1 000 kg				
Maximum off centre distance at maximum capacity		mm	200 for 50 kg / 250 for 100...500 kg / 300 for 1 000 kg				
Compensated temperature range		°C	-10...+40				
Operating temperature range		°C	-40...+80 (ATEX -40...+60)				
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			IP68				

The limits for Non-Linearity, Hysteresis, and T<sub>CR0</sub> are typical values.The sum of Non-linearity, Hysteresis and T<sub>CR0</sub> meets the requirements according to OIML R60 with p<sub>LC</sub>=0.7.**Dimensions (in mm)**

Type	L1	L2	H	W	D	Mounting bolts**	Torque*
PCB-50/100/250/500/1000 kg	25	125	19	60	M8	M8 8.8***	25 Nm
PCBB-500/1000 kg	35	104,5	25	57	M12	M12 8.8	90 Nm

\* Torque values assume oiled threads.

\*\* Unified thread UNC is available.

\*\*\* M8 12.9 for 1000 kg.

**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

