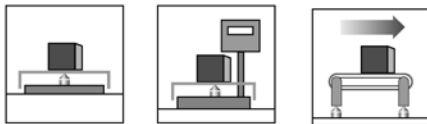


## PW15C3...

Single point load cell

### Special features

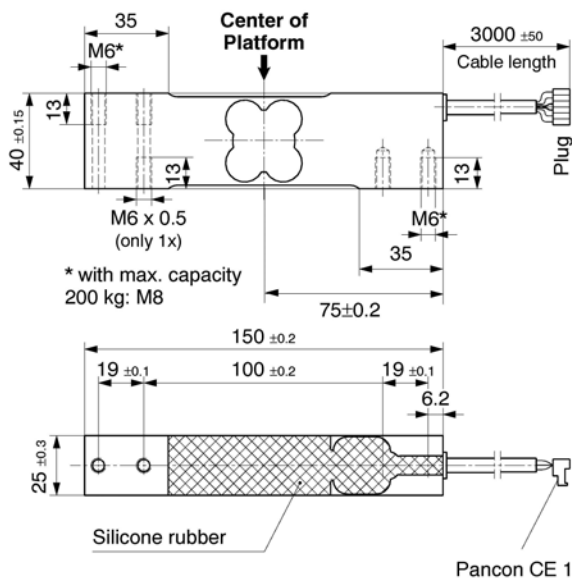
- Stainless steel
- Max. Capacities: 7.5 kg ... 200 kg
- OIML R60 approval
- Off center load compensated (OIML R76)
- Protection class IP67 (acc. to EN 60 529)
- 6-wire-technology
- Meets EMC standards (EN 45 501)



### PW15C3-MR version:

- Reduced minimum load cell verification interval ( $v_{min}$ )

Dimensions (in mm; 1 mm= 0.03937 inches)



#### Cable:

Shielded 6-core round cable (6x0.14 mm<sup>2</sup>) with PVC-sheath

#### Wiring code (Six wire technology)

Gray	Sense (-)
Green	Sense (+)
Blue	Excitation (+)
Black	Excitation (-)
Red	Signal (-)
White	Signal (+)
	Shield connected to load cell body

#### Mounting:

Cylindrical head screw M6-10.9 (200 kg: M8-10.9)  
 Tightening torque: 14 N·m (200 kg: 33 N·m)

## Specifications

Type	PW15C3										PW15C3-MR								
Accuracy class <sup>1)</sup>	C3										C3MR								
Max. number of load cell interv. (n <sub>LC</sub> )	3000										3000								
Maximum capacity (E <sub>max</sub> )	kg	7.5	15	20	30	50	75	100	150	200	7.5	15	20	30	50	75	100	150	200
Min. LC verific. interval (v <sub>min</sub> )	g	1	2	5	5	10	10	20	20	50	0,5	1	2	2	5	5	10	10	20
Maximum platform size	mm	500 x 400										500 x 400							
Sensitivity (C <sub>n</sub> )	mV/V	2.0 ± 0.2										2.0 ± 0.2							
Zero balance	mV/V	0 ± 0.1										0 ± 0.1							
Temperature effect on zero balance (TK <sub>0</sub> )		± 0.0186	± 0.0186	± 0.0350	± 0.0233	± 0.0280	± 0.0186	± 0.0280	± 0.0186	± 0.0350	± 0.0093	± 0.0093	± 0.0140	± 0.0093	± 0.0140	± 0.0093	± 0.0140	± 0.0093	± 0.0140
Temperature effect on sensitivity (TK <sub>C</sub> ) <sup>2)</sup>	% of C <sub>n</sub> / 10 K																		
Temperature range:																			
+20 ... +40°C [+70 ... +105°F]		± 0.0175										± 0.0175							
-10 ... +20°C [+15 ... +70°F]		± 0.0117										± 0.0117							
Hysteresis error (d <sub>hy</sub> ) <sup>2)</sup>		± 0.0166										± 0.0166							
Non-linearity (d <sub>lin</sub> ) <sup>2)</sup>	% of C <sub>n</sub>	± 0.0166										± 0.0166							
Creep (d <sub>cr</sub> ; d <sub>DR</sub> ) over 30 min.		± 0.0166										± 0.0166							
Off center load error		± 0.0233 <sup>3)</sup>										± 0.0233 <sup>3)</sup>							
Input resistance (R <sub>LC</sub> )	Ω	380 ± 15										380 ± 15							
Output resistance (R <sub>0</sub> )		359 ± 5 <sup>4)</sup>										359 ± 5 <sup>4)</sup>							
Reference excit. voltage (U <sub>ref</sub> )	V	5										5							
Nom. range of excit. volt. (B <sub>U</sub> )		1 ... 15										1 ... 15							
Insulation resist. (R <sub>is</sub> ) with 100 V <sub>DC</sub>	GΩ	> 1										> 1							
Nominal temp. range (B <sub>T</sub> )	°C	-10 ... +40 [+15 ... +105°F]										-10 ... +40 [+15 ... +105°F]							
Service temp. range (B <sub>tu</sub> )	°C	-10 ... +50 [+15 ... +125°F]										-10 ... +50 [+15 ... +125°F]							
Storage temp. range (B <sub>tl</sub> )	°F	-25 ... +70 [-15 ... +160°F]										-25 ... +70 [-15 ... +160°F]							
Lateral load limit (E <sub>lq</sub> ), static	%	300										300							
Breaking load (E <sub>d</sub> )	of E <sub>max</sub>	300										300							
Safe load limit (E <sub>L</sub> ) <sup>*</sup>		150										150							
<sup>*</sup> ) at max. eccentricity	mm	160										160							
Deflect. at E <sub>max</sub> (e <sub>nom</sub> ), app.	mm	< 0.5										< 0.5							
Weight (G), approx.	kg	1.0										1.0							
Protection class acc. to EN60529 (IEC529)		IP67										IP67							
Material: Measuring element		Stainless steel										Stainless steel							
Coating		Silicone rubber										Silicone rubber							
Cable sheath		PVC										PVC							

<sup>1)</sup> According to OIML R60 with P<sub>LC</sub> = 0.7

<sup>2)</sup> The data for Non-linearity (d<sub>lin</sub>), Hysteresis error (d<sub>hy</sub>) and Temperature effect on sensitivity (TK<sub>C</sub>) are typical values. The sum of these data meets the requirements according to OIML R60.

<sup>3)</sup> According to OIML R76

<sup>4)</sup> With Option "Adjusted output" the Output resistance (R<sub>0</sub>) is 359 ± 0.3 Ω; the Sensitivity (C<sub>n</sub>) is 2.0 mV/V ± 0.002 mV/V

**Options: Ex-protected vers. acc. to ATEX 95:** II 2 G EEx ia IIC T4 resp. T6 (Zone 1)

II 3 G EEx nA II T6 (Zone 2)

II 3 D T80 °C IP67; U<sub>max</sub> 12 V (Zone 22 for non-conduct. dust)

**Other cable lengths:** 1.5 m; 6 m; 12 m

**"Adjusted output" for parallel connection of several load cells**

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measurement with confidence

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