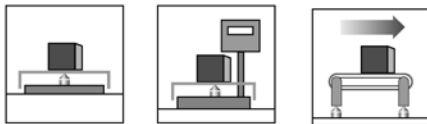


## PW15C3...

Single point load cell

### Special features

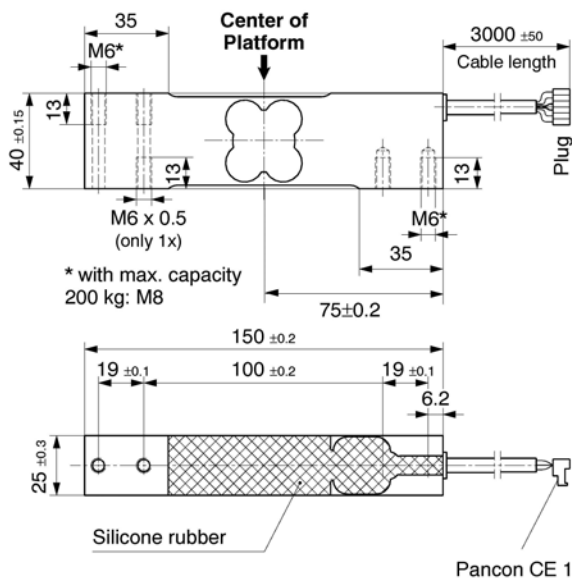
- Stainless steel
- Max. Capacities: 7.5 kg ... 200 kg
- OIML R60 approval
- Off center load compensated (OIML R76)
- Protection class IP67 (acc. to EN 60 529)
- 6-wire-technology
- Meets EMC standards (EN 45 501)



### 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)

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## Specifications

Type	PW15C3										PW15C3-MR								
Accuracy class <sup>1)</sup>	C3										C3MR								
Max. number of load cell interv. ( $n_{LC}$ )	3000										3000								
Maximum capacity ( $E_{max}$ )	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 ( $v_{min}$ )	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 ( $C_n$ )	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 ( $TK_0$ )		± 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 ( $TK_C$ ) <sup>2)</sup>	% of $C_n$ / 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 ( $d_{hy}$ ) <sup>2)</sup>		± 0.0166										± 0.0166							
Non-linearity ( $d_{lin}$ ) <sup>2)</sup>	% of $C_n$	± 0.0166										± 0.0166							
Creep ( $d_{cr}$ ; $d_{DR}$ ) over 30 min.		± 0.0166										± 0.0166							
Off center load error		± 0.0233 <sup>3)</sup>										± 0.0233 <sup>3)</sup>							
Input resistance ( $R_{LC}$ )	Ω	380 ± 15										380 ± 15							
Output resistance ( $R_0$ )		359 ± 5 <sup>4)</sup>										359 ± 5 <sup>4)</sup>							
Reference excit. voltage ( $U_{ref}$ )	V	5										5							
Nom. range of excit. volt. ( $B_U$ )		1 ... 15										1 ... 15							
Insulation resist. ( $R_{is}$ ) with 100 V <sub>DC</sub>	GΩ	> 1										> 1							
Nominal temp. range ( $B_T$ )	°C	-10 ... +40 [+15 ... +105°F]										-10 ... +40 [+15 ... +105°F]							
Service temp. range ( $B_{tu}$ )	[°F]	-10 ... +50 [+15 ... +125°F]										-10 ... +50 [+15 ... +125°F]							
Storage temp. range ( $B_{tl}$ )		-25 ... +70 [-15 ... +160°F]										-25 ... +70 [-15 ... +160°F]							
Lateral load limit ( $E_{lq}$ ), static	%	300										300							
Breaking load ( $E_d$ )	of $E_{max}$	300										300							
Safe load limit ( $E_L$ ) <sup>*</sup>		150										150							
<sup>*</sup> ) at max. eccentricity	mm	160										160							
Deflect. at $E_{max}$ ( $s_{nom}$ ), 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  $P_{LC} = 0.7$

<sup>2)</sup> The data for Non-linearity ( $d_{lin}$ ), Hysteresis error ( $d_{hy}$ ) and Temperature effect on sensitivity ( $TK_C$ ) 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 ( $R_0$ ) is  $359 \pm 0.3 \Omega$ ; the Sensitivity ( $C_n$ ) is  $2.0 \text{ mV/V} \pm 0.002 \text{ mV/V}$

**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;  $U_{max} 12 \text{ V}$  (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**

Modifications reserved.  
All details describe our products in general form only. They are not to be understood as express warranty and do not constitute any liability whatsoever.

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measurement with confidence

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