

PW15C3...

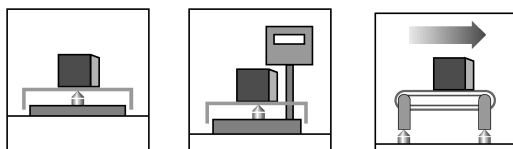
Single point load cell

Special features

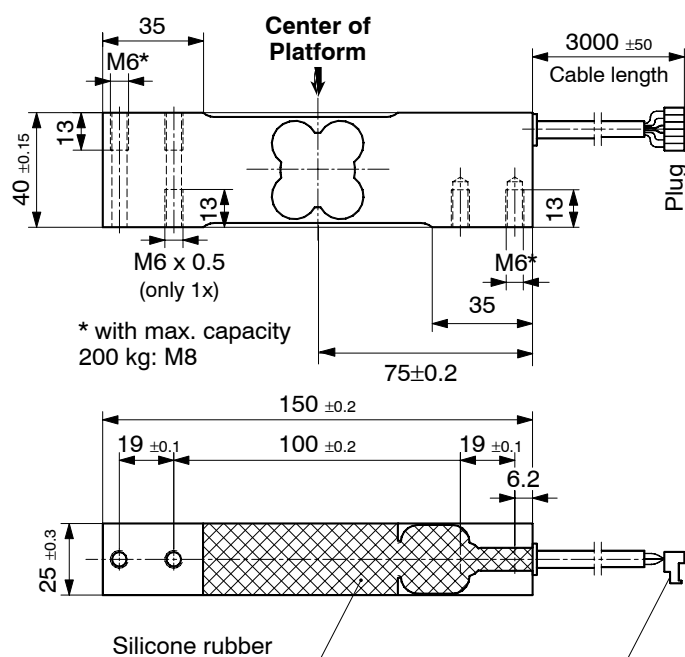
- Stainless steel
- Max. Capacities: 7.5 kg ... 200 kg
- OIML R60 approval
- Off center load compensated (OIML R76)
- Protection class IP67 (acc. to EN 60 529)
- 6-wire-technology
- Meets EMC standards (EN 45 501)

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 mm²) 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)

Pancon CE 100F26-6 (6 terminals)

Specifications

Type		PW15C3										PW15C3-MR									
Accuracy class ¹⁾		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) ²⁾ Temperature range: +20 ... +40°C [+70 ... +105°F] -10 ... +20°C [+15 ... +70°F]	% of C _n / 10 K	± 0.0175 ± 0.0117										± 0.0175 ± 0.0117									
Hysteresis error (d _{hy}) ²⁾		± 0.0166										± 0.0166									
Non-linearity (d _{lin}) ²⁾		± 0.0166										± 0.0166									
Creep (d _{cr} ; d _{DR}) over 30 min.		± 0.0166										± 0.0166									
Off center load error		± 0.0233 ³⁾										± 0.0233 ³⁾									
Input resistance (R _{LC})	Ω	380 ± 15										380 ± 15									
Output resistance (R ₀)		359 ± 5 ⁴⁾										359 ± 5 ⁴⁾									
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 _{DC}	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	300										300									
Safe load limit (E _L) ^{*)}	E _{max}	150										150									
*) 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									

¹⁾ According to OIML R60 with P_{LC} = 0.7

²⁾ 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.

³⁾ According to OIML R76

⁴⁾ With Option "Adjusted output" the Output resistance (R₀) is 359 ± 0.3 Ω; the Sensitivity (C_n) 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_{max} 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

Modifications reserved.

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