

PW10A...

Single point load cells

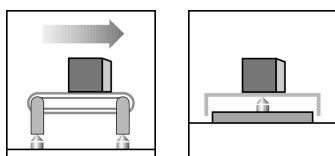


Special features

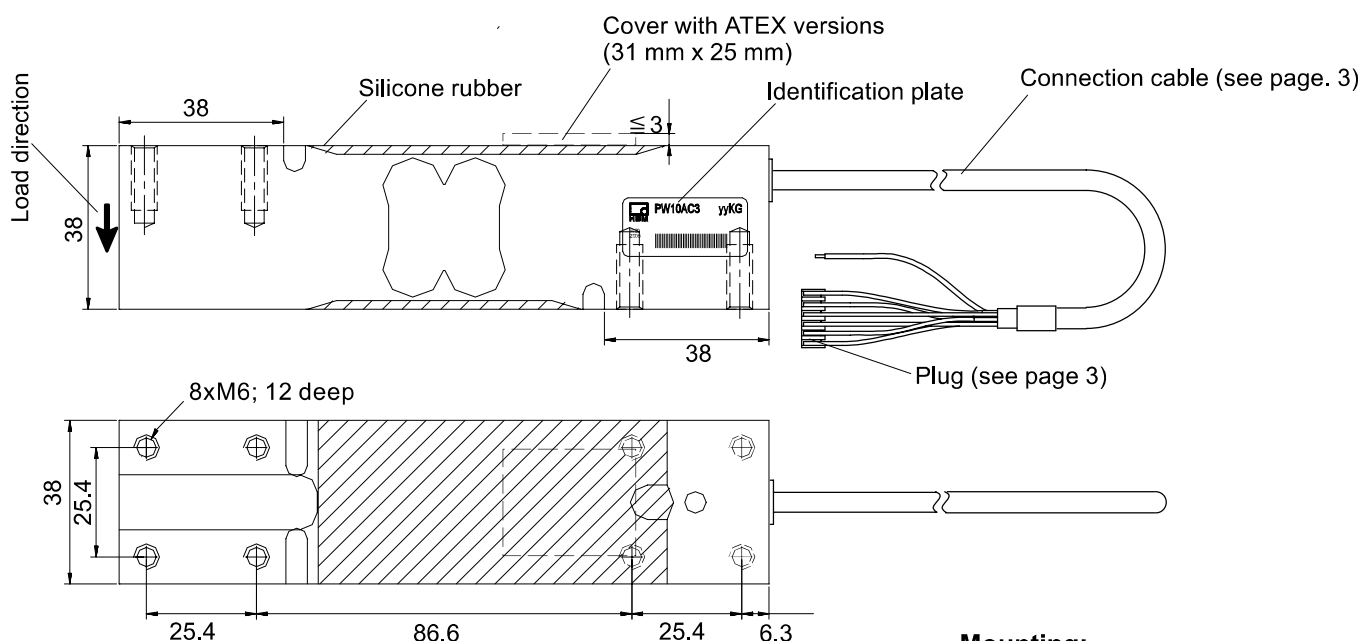
- OIML-R60 approval
- Max. capacities: 50 kg ... 300 kg
- Off center load compensated (OIML R76)
- Meets EMC standards (EN 45 501)
- Shielded connection cable
- 6-wire circuit

Optional:

- Reduced minimum LC verification interval (v_{min}) for multi range applications
- Explosion proof versions
- different cable lengths
- Aligned output, suitable for connection in parallel



Dimensions (in mm; 1 mm = 0.03937 inches)



Mounting:

Socket head cap screws M6-10.9
Tightening torque: 14 N·m

Specifications

Type		PW10A...					
Accuracy class ¹⁾		C3, C3MR					
Number of load cell intervals (n _{LC})		3000					
Maximum capacity (E _{max})	kg	50	100	150	200	250	300
Minimum LC verification interval (v _{min}), (Accuracy class C3)	g	10	20	20	50	50	50
Temperature effect on zero balance (TK ₀), (Accuracy class C3)	% of C _n / 10 K	± 0.0280	± 0.0280	± 0.0186	± 0.0350	± 0.0280	± 0.0233
Minimum LC verification interval (v _{min}), (Accuracy class C3MR)	g	5	10	10	20	20	20
Temperature effect on zero balance (TK ₀), (Accuracy class C3MR)	% of C _n / 10 K	± 0.0140	± 0.0140	± 0.0093	± 0.0140	± 0.0112	± 0.0093
Max. platform size	mm	600 x 500					
Sensitivity (C _n) ²⁾	mV/V	2.0 ± 0.2 (Option 6: A = 2 mV/V ± 0.1 %)					
Zero balance		0 ± 0.1					
Temperature effect on sensitivity (TK _C) ³⁾ Temperature range: +20 ... +40 °C [+70 ... +105 °F] -10 ... +20 °C [+15 ... +70 °F]	% of C _n / 10 K	± 0.0175 ± 0.0117					
Hysteresis error (d _{hy}) ³⁾	% of C _n	± 0.0166					
Non-linearity (d _{lin}) ³⁾		± 0.0166					
Minimum dead load output return (DR)		± 0.0166					
Off center load error ⁴⁾		± 0.0233					
Input resistance (R _{LC})	Ω	300 ... 500					
Output resistance (R ₀)		330 ... 430 (Option 6: A = 410 Ω ± 0.2 Ω)					
Reference excitation voltage (U _{ref})	V	5					
Nominal range of excitation voltage (B _U)		0 ... 12					
Max. excitation voltage		15					
Insulation resistance (R _{is}) at 100 V _{DC}		> 2					
Nominal temperature range (B _T)	°C [°F]	-10 ... +40 [+14 ... +104]					
Service temperature range (B _{tu})		-10 ... +50 [+14 ... +122]					
Storage temperature range (B _{st})		-25 ... +70 [-13 ... +158]					
Safe load limit (E _L)	% of E _{max}	150					
at max. eccentricity	mm	150					
Lateral load limit (E _{lq}), static	% of E _{max}	300					
Breaking load (E _d)		300					
Deflection at E _{max} (s _{nom}), approx.		<0,5					
Weight (G), approx.		0,6					
Protection class accord. to EN 60 529 (IEC 529)		IP67					
Material: Measuring element		Aluminum					
Coating		Silicone rubber					
Cable sheath		PVC					

¹⁾ In accordance to OIML-R60 with P_{LC} = 0.7

²⁾ Max. eccentric load according to OIML R76

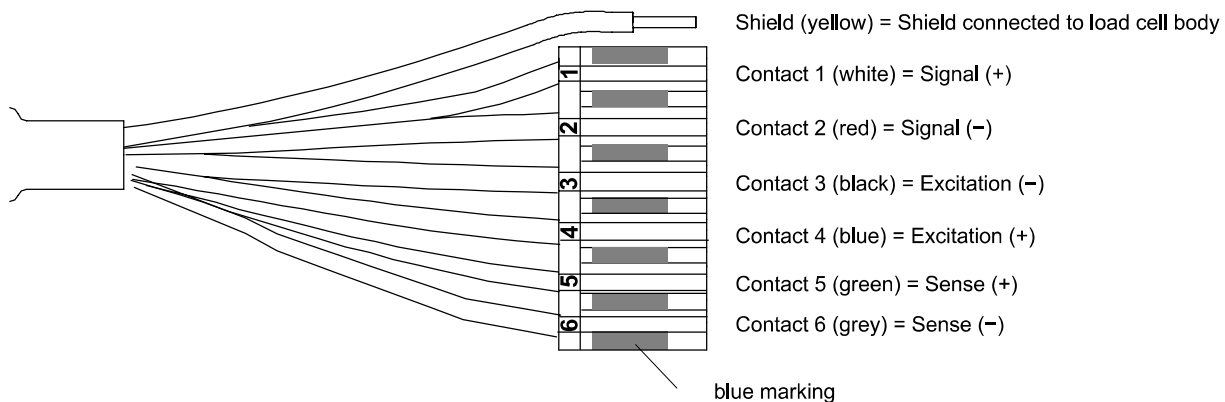
³⁾ The sum of data for Non-linearity, Hysteresis error and TC Span meets the requirements of OIML R60.

⁴⁾ Eccentric error according to OIML R76 class.

Wiring code

Connection with 6 wire cable (selectable cable length: 1.5 m; 3 m; 6 m, 12 m)

Detailed description of the Pancon plug (CE100F26-6), 6-pole



Ordering codes

PW10A... (Aluminum)

Type	PW10A		
Accuracy	C3 (OIML)		
Note	Cable length 3m (6 wire)		
Capacity	Order no.		
50kg	1-PW10AC3/50KG-1		
100kg	1-PW10AC3/100KG-1		
150kg	1-PW10AC3/150KG-1		
200kg	1-PW10AC3/200KG-1		
250kg	1-PW10AC3/250KG-1		
300kg	1-PW10AC3/300KG-1		

K-PW10A-... (Aluminum), optional versions [!!!]

Order no.		
K-PW10A		
	Code	Option 1: Mechanical version
	N	-
	Code	Option 2: Accuracy
	C3	C3 (OIML)
	MR	C3-MR (OIML)
	Code	Option 3: Capacity
	50	50kg
	100	100kg
	150	150kg
	200	200kg
	250	250kg
	300	300kg
	Code	Option 4: Ex protection
	N	non Ex
	1+21	ATEX Zone 1 + 21 [only with Option 6 = N]
	2+22	ATEX Zone 2 + 22 (non-conductive dust) [only with Option 6 = N]
	Code	Option 5: Cable length
	1.5	1.5m
	3	3m
	6	6m
	12	12m
	Code	Option 6: Miscellaneous
	N	without
	A	2mV/V $\pm 0.1\%$ / 359 Ohms ± 0.3 Ohms [only with Option 4 = N] (aligned output, suitable for connection in parallel)

K-PW10A - N - - - - - - -

[!!!]: Not all codes can be combined with each other. Please take heed of the terms in the square brackets!



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