

PW15A...

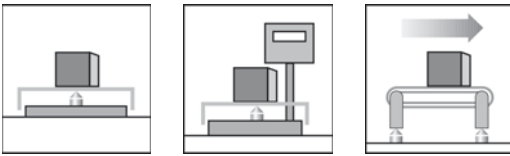
Single point load cell

Special features

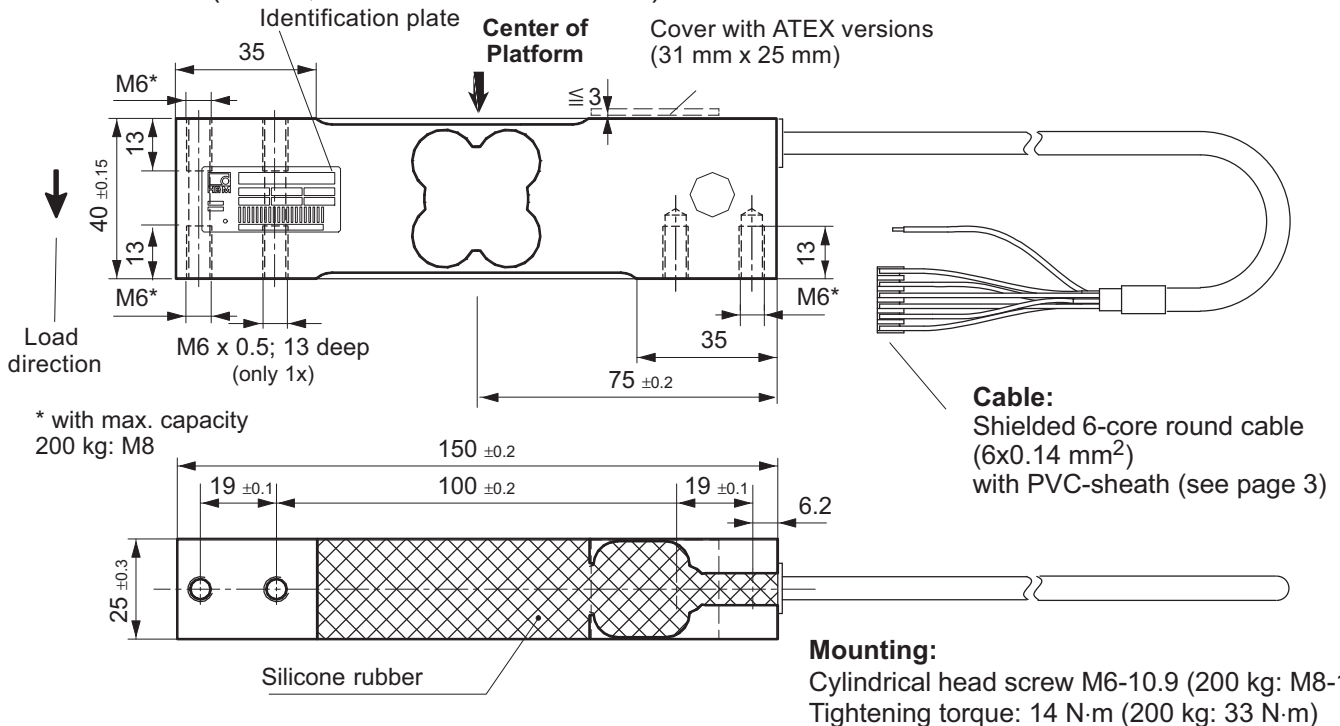
- Stainless steel
- Max. Capacities: 7.5 kg ... 200 kg
- OIML R60 approval
- Off center load compensated (OIML R76)
- Protection class IP67 (acc. to EN 60 529)
- 6-wire-technology
- Meets EMC standards (EN 45 501)

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)



Specifications

Type	PW15A...									
Accuracy class ¹⁾	C3, C3MR									
Max. number of load cell interv. (n _{LC})	3000									
Maximum capacity (E _{max}) ²⁾	kg	7.5	15	20	30	50	75	100	150	200
Min. LC verific. interval (v _{min}) (Accuracy class C3)	g	1	2	5	5	10	10	20	20	50
Temperature effect on zero balance (TK ₀), (Accuracy class C3)	% of C _n / 10 K	± 0.0186	± 0.0186	± 0.0350	± 0.0233	± 0.0280	± 0.0186	± 0.0280	± 0.0186	± 0.0350
Min. LC verific. interval (v _{min}), (Accuracy class C3MR)	g	0.5	1	2	2	5	5	10	10	20
Temperature effect on zero balance (TK ₀), (Accuracy class C3MR)	% of C _n / 10 K	± 0.0093	± 0.0093	± 0.0140	± 0.0093	± 0.0140	± 0.0093	± 0.0140	± 0.0093	± 0.0140
Maximum platform size	mm	500 x 400								
Sensitivity (C _n)	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 [+68 ... +104°F] -10 ... +20°C [+14 ... +68°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	380 ± 15								
Output resistance (R ₀)		359 ± 5 (Option 6: A = 359 Ω ± 0.3 Ω)								
Reference excit. voltage (U _{ref})	V	5								
Nom. range of excit. volt. (B _U)		1 ... 12								
Max. excitation voltage		15								
Insulation resist. (R _{is}) with 100 V _{DC}	GΩ	> 1								
Nominal temp. range (B _T)	°C [°F]	-10 ... +40 [+14 ... +104°F]								
Service temp. range (B _{tu})		-10 ... +50 [+14 ... +122°F]								
Storage temp. range (B _{tl})		-25 ... +70 [-13 ... +158°F]								
Safe load limit (E _L) *)	% of E _{max}	150								
*) at max. eccentricity	mm	160								
Lateral load limit (E _{lq}), static	% of E _{max}	300								
Breaking load (E _d)		300								
Deflect. at E _{max} (s _{nom}), app.	mm	< 0.5								
Weight (G), approx.	kg	1.0								
Protection class acc. to EN60529 (IEC529)		IP67								
Material: Measuring element		Stainless steel								
Coating		Silicone rubber								
Cable sheath		PVC								

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

²⁾ Max. eccentric load according to OIML R76

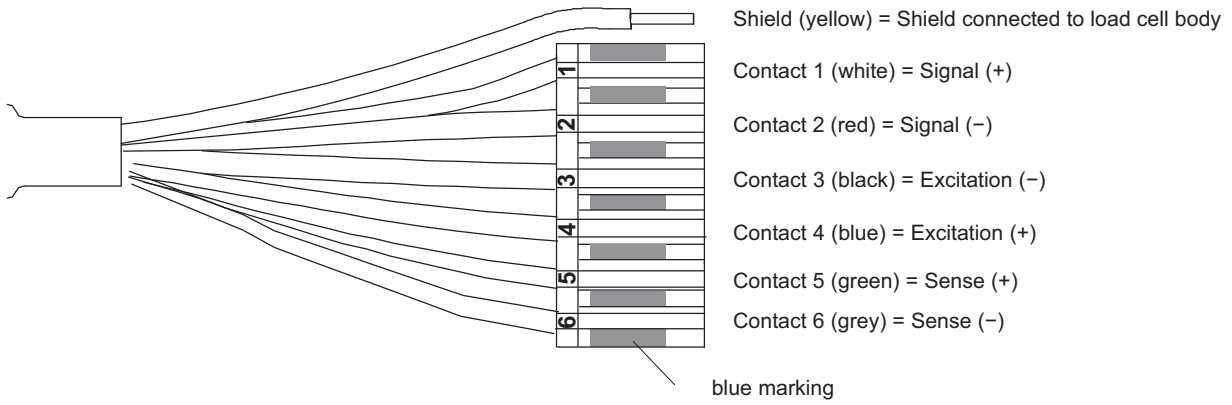
³⁾ The data for Non-linearity (d_{lin}), Hysteresis error (d_{hy}) and Temperature effect on sensitivity (TK_C) are typical values. The sum of these data meets the requirements according to OIML R60.

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

PW15A... (Stainless steel)

Type	PW15A	
Accuracy	C3 (OIML)	
Note	Cable length 3m (6 wire)	
Capacity	Order no.	
7.5kg	1-PW15AC3/7.5KG-1	
15kg	1-PW15AC3/15KG-1	
20kg	1-PW15AC3/20KG-1	
30kg	1-PW15AC3/30KG-1	
50kg	1-PW15AC3/50KG-1	
75kg	1-PW15AC3/75KG-1	
100kg	1-PW15AC3/100KG-1	
150kg	1-PW15AC3/150KG-1	
200kg	1-PW15AC3/200KG-1	

K-PW15A-... (Stainless steel), optional versions

Order no.		
K-PW15A		
Code	Option 1: Mechanical version	
N	Standard	
Code	Option 2: Accuracy	
C3	C3 (OIML)	
MR	C3-MR (OIML)	
Code	Option 3: Capacity	
7.5	7.5kg	
15	15kg	
20	20kg	
30	30kg	
50	50kg	
75	75kg	
100	100kg	
150	150kg	
200	200kg	
Code	Option 4: Ex protection	
N	non Ex	
1+21	ATEX Zone 1 + 21 and FM 	
2+22	ATEX Zone 2 + 22 (non-conductive dust)	
Code	Option 5: Cable length	
1.5	1.5m	
3	3m	
6	6m	
12	12m	
Code	Option 6: Miscellaneous	
N	without	
A	2mV/V ±0.1% / 359 Ohms ±0.3 Ohms (aligned output, suitable for connection in parallel)	
K-PW15A - N - [] - [] - [] - [] - [] - []		

Regional Distributor



803, Riqqa Palace Building
Al-Maktum Ave.
P.O.Box 181802 Dubai, UAE
Tel: +9714 - 2270081
Fax: +9714 - 2239962
E-mail: rcsco@eim.ae
www.rcs-co.com

Hottinger Baldwin Messtechnik GmbH

Im Tiefen See 45, D-64293 Darmstadt, Germany
Tel.: +49 6151 8030; Fax: +49 6151 803 9100
E-mail: support@hbm.com www.hbm.com



measurement with confidence