

PW15A...

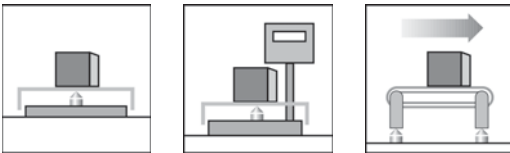
Single point load cell

Special features

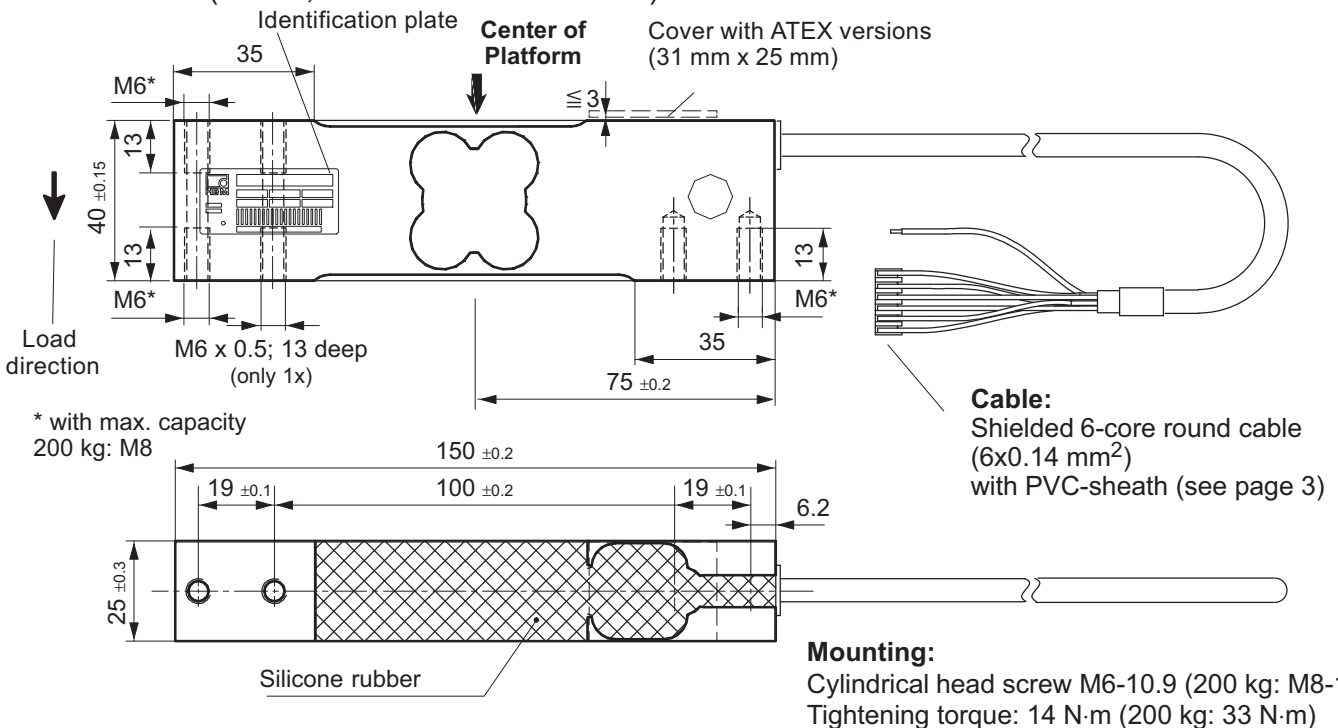
- Stainless steel
- Max. Capacities: 7.5 kg ... 200 kg
- OIML R60 approval
- Off center load compensated (OIML R76)
- Protection class IP67 (acc. to EN 60 529)
- 6-wire-technology
- Meets EMC standards (EN 45 501)

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}) | | 380 ± 15 | | | | | | | | |
| Output resistance (R ₀) | Ω | 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} | | > 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

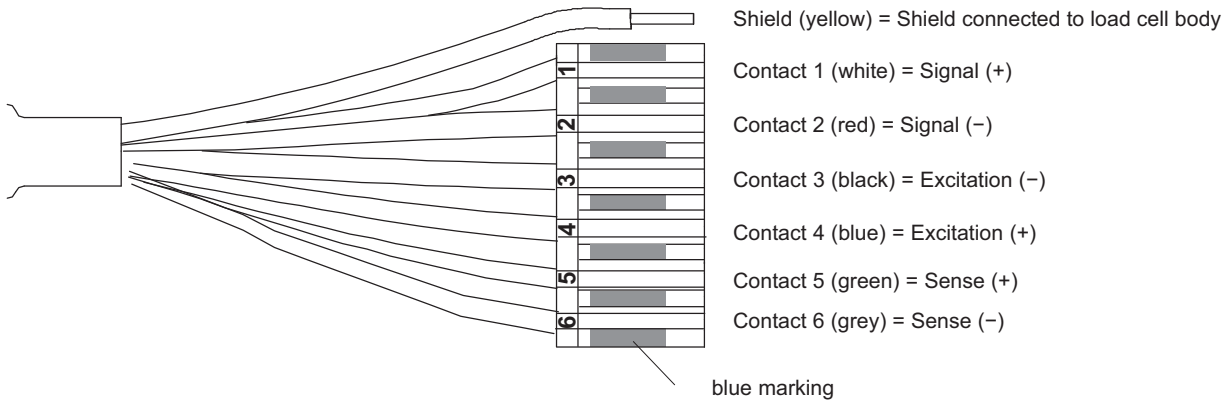
³⁾ The data for Non-linearity (d_{lin}), Hysteresis error (d_{hy}) and Temperature effect on sensitivity (TK_C) are typical values. The sum of these data meets the requirements according to OIML R60.

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 - <input type="checkbox"/> - <input type="checkbox"/> - <input type="checkbox"/> - <input type="checkbox"/> - <input type="checkbox"/> - <input type="checkbox"/> - <input type="checkbox"/> | | |

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