

Specifications PW15B (C3 MR)

| Type | | | PW15B (C3 MR) | | | | | | | | |
|--|------------|----------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Accuracy class ¹⁾ | | | C3 Multi Range (MR) | | | | | | | | |
| Number of scale intervals | n_{LC} | | 3000 | | | | | | | | |
| Nominal (rated) load | E_{max} | kg | 7.5 | 15 | 20 | 30 | 50 | 75 | 100 | 150 | 200 |
| Minimum load cell verification interval | v_{min} | g | 0.5 | 1 | 2 | 2 | 5 | 5 | 10 | 10 | 20 |
| Ratio of minimum verification interval | Y | | 15000 | | 10000 | 15000 | 10000 | 15000 | 10000 | 15000 | 10000 |
| Temperature coefficient of zero signal per 10K | TK_0 | % of C_n | ± 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 | | | | | | | | |
| Nominal (rated) sensitivity | C_n | mV/V | 2.0 \pm 0.2 (Option 6: 2.0 mV/V \pm 0.1%) | | | | | | | | |
| Zero signal | | | 0 \pm 0.1 | | | | | | | | |
| Temperature coefficient of the sensitivity per 10 K ²⁾ in the temperature range +20 ... +40 °C -10 ... +20 °C | TK_C | % of C_n | ± 0.0175 | | | | | | | | |
| Linearity error ²⁾ | d_{lin} | | ± 0.0117 | | | | | | | | |
| Relative reversibility error ²⁾ | d_{hy} | | ± 0.0166 | | | | | | | | |
| Minimum dead load output return | MDLOR | | ± 0.0166 | | | | | | | | |
| Off-center load error ³⁾ | | | ppm | ≤ 233 | | | | | | | |
| Input resistance | R_{LC} | Ω | 300 ... 500 | | | | | | | | |
| Output resistance | R_0 | | 300 ... 500 (Option 6: 359 \pm 0.2) | | | | | | | | |
| Reference excitation voltage | U_{ref} | V | 5 | | | | | | | | |
| Nominal (rated) range of the excitation voltage | B_U | | 1 ... 12 | | | | | | | | |
| Maximum excitation voltage | | | 15 | | | | | | | | |
| Insulation resistance at 100 V _{DC} | R_{is} | | G Ω | > 1 | | | | | | | |
| Nominal (rated) temperature range | B_T | °C | -10 ... +40 | | | | | | | | |
| Operating temperature range | B_{tu} | | -10 ... +50 | | | | | | | | |
| Storage temperature range | B_{tl} | | -25 ... +70 | | | | | | | | |
| Limit load at maximum 160 mm eccentricity | E_L | | 150 | | | | | | | | |
| Limit lateral loading, static | E_{lq} | % of E_{max} | 300 | | | | | | | | |
| Service load at max. 100 mm eccentricity | E_u | | 150 | | | | | | | | |
| Breaking load at max. 20 mm eccentricity | E_d | | 300 | | | | | | | | |
| Relative permissible oscillation stress at max. 20 mm eccentricity | F_{srel} | | 70 | | | | | | | | |
| Nominal (rated) displacement ⁴⁾ , approx. | s_{nom} | | mm | 0.21 | 0.2 | 0.2 | 0.2 | 0.18 | 0.17 | 0.17 | 0.17 |
| Weight, approx. | m | kg | 1 | | | | | | | | |
| Degree of protection ⁵⁾ | | | IP67 | | | | | | | | |
| Cable length (standard) | | m | 3 | | | | | | | | |
| Material | | | Steel 1.4545 ⁶⁾ Silicone rubber PVC | | | | | | | | |

¹⁾ As per OIML R60, with $P_{LC} = 0.7$.

²⁾ The values for non-linearity (d_{lin}), relative reversibility error (d_{hy}) and temperature coefficient of sensitivity (TK_C) are recommended values. The sum of these values is within the cumulative error limits laid down by OIML R60.

³⁾ As per OIML R76.

⁴⁾ Loading with E_{max} and center of gravity in center of load cell.

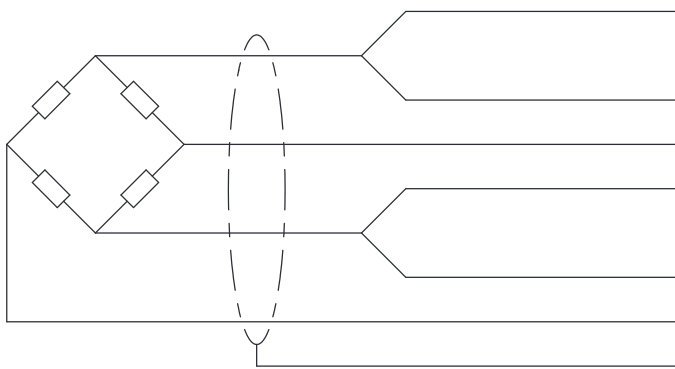
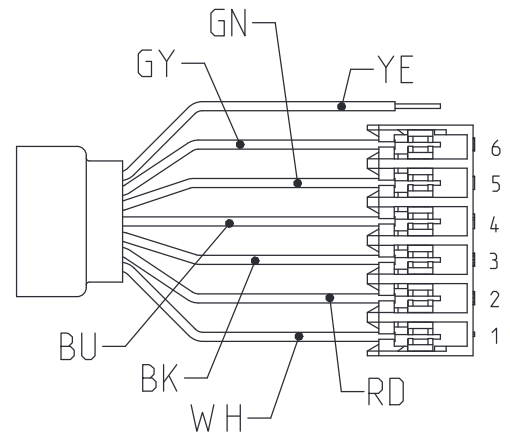
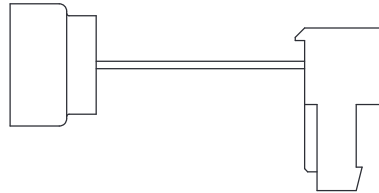
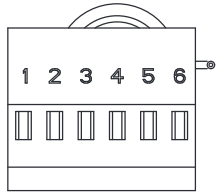
⁵⁾ As per EN 60529 (IEC 529).

⁶⁾ As per EN 10088-1.

Cable assignment

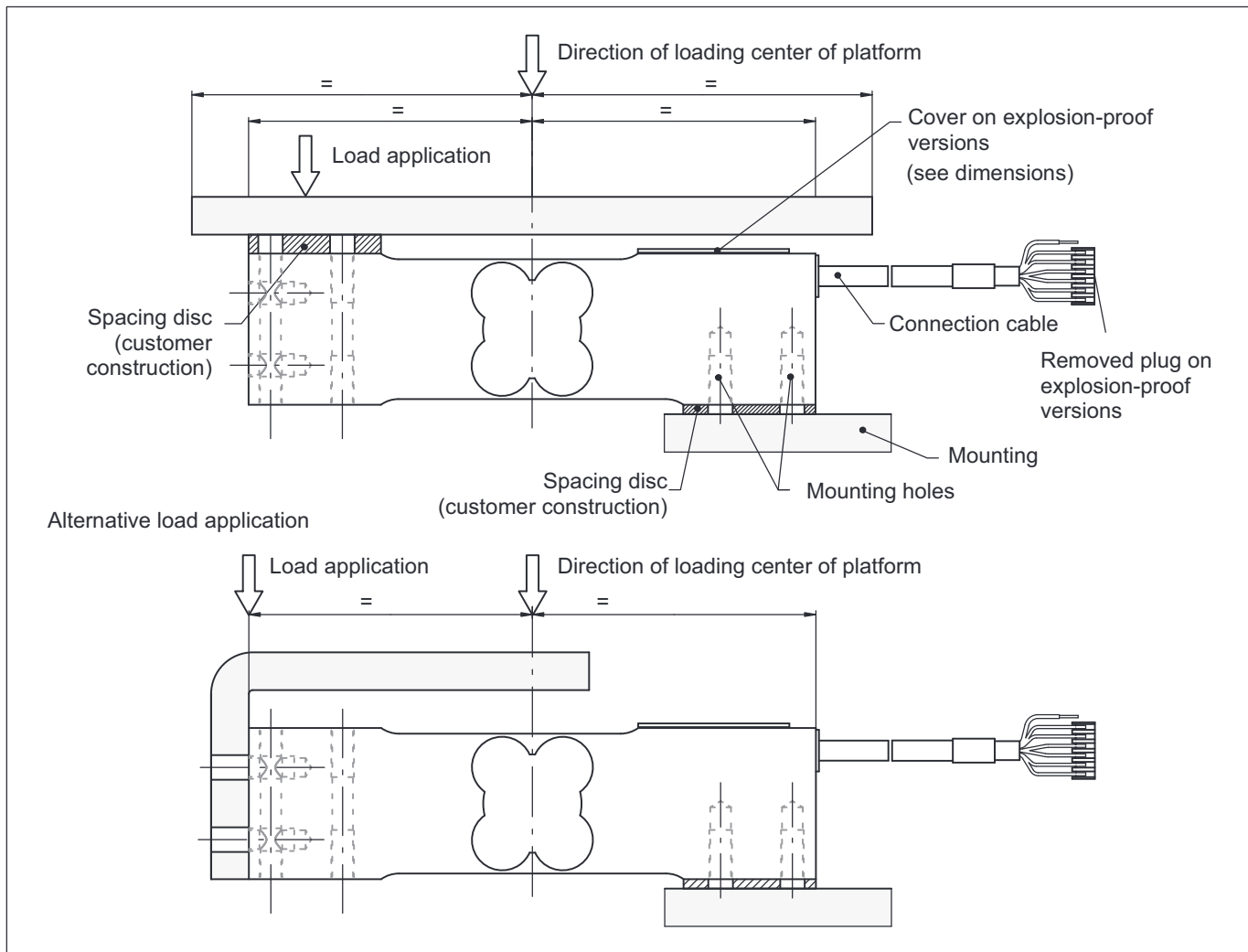
6-wire cable connection, 6 x 0.14 mm²/AWG 26 (available cable lengths: 1.5 m; 3 m; 6 m, 12 m)

Schematic diagram of a TE connector (TE 3-640442-6), 6-pin



- Plug-in contact 4 (blue [BU]) = excitation voltage (+)
- Plug-in contact 5 (green [GN]) = sense line (+)
- Plug-in contact 1 (white [WH]) = measurement signal (+)
- Plug-in contact 3 (black [BK]) = excitation voltage (-)
- Plug-in contact 6 (gray [GY]) = sense line (-)
- Plug-in contact 2 (red [RD]) = measurement signal (-)
- Shield (yellow [YN]) = Cable shield

Mounting instructions



| Maximum capacity | Socket head cap screw | Maximum tightening torque |
|-------------------|-----------------------|---------------------------|
| 7.5 kg ... 150 kg | M6 10.9 | 14 N·m |
| 200 kg | M8 10.9 | 33 N·m |

Product numbers (overview)

| Type | PW15B |
|----------------------|-------------------------------------|
| Accuracy class | C3-MR (OIML) |
| Comments | Cable length 3 m (six-wire config.) |
| Nominal (rated) load | Order number |
| 7.5 kg | 1-PW15BC3/7.5KG-1 |
| 15 kg | 1-PW15BC3/15KG-1 |
| 20 kg | 1-PW15BC3/20KG-1 |
| 30 kg | 1-PW15BC3/30KG-1 |
| 50 kg | 1-PW15BC3/50KG-1 |
| 75 kg | 1-PW15BC3/75KG-1 |
| 100 kg | 1-PW15BC3/100KG-1 |
| 150 kg | 1-PW15BC3/150KG-1 |
| 200 kg | 1-PW15BC3/200KG-1 |

K-PW15B... (stainless steel), optional versions

| | |
|-----------|---|
| Order no. | |
| K-PW15B | |
| Code | Option 1: Mechanical design |
| N | Standard |
| Code | Option 2: Accuracy class |
| MR | C3-MR (OIML) (Multi Range) |
| Code | Option 3: Nominal (rated) load |
| 7.5 | 7.5 kg |
| 15 | 15 kg |
| 20 | 20 kg |
| 30 | 30 kg |
| 50 | 50 kg |
| 75 | 75 kg |
| 100 | 100 kg |
| 150 | 150 kg |
| 200 | 200 kg |
| Code | Option 4: Explosion protection |
| N | No explosion protection |
| A11/21 | ATEX+IECEX+FM Zone 1/21, intrinsically safe; ATEX/IECEX: II 2G Ex ia IIC T6/T4 Gb + II 2D Ex ia IIIC T125°C Db; FM(US/CA): Class I Zone 1 AEx/Ex ia IIC T4 Gb + Zone 21 AEx/Ex ia IIIC T125°C Db; FM(US): Class I, II, III Division 1, Groups A, B, C, D, E, F, G T4 |
| A12/22 | ATEX+IECEX Zone 2/22, non-intrinsically safe; ATEX/IECEX: II 3G Ex ec IIC T6/T4 Gc + II 3D Ex tc IIIC T125°C Dc |
| Code | Option 5: Cable length |
| 1.5 | 1.5 m |
| 3 | 3 m (Standard) |
| 6 | 6 m |
| 12 | 12 m |
| Code | Option 6: Other |
| N | none |
| A | 2 mV/V 0.1% / 359 Ω ± 0.2 Ω (aligned output, suitable for parallel connection) |

K-PW15B - N - M R - [] - [] - [] - []

Subject to modifications.
All product descriptions are for general information only. They are not to be understood as a guarantee of quality or durability.

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