

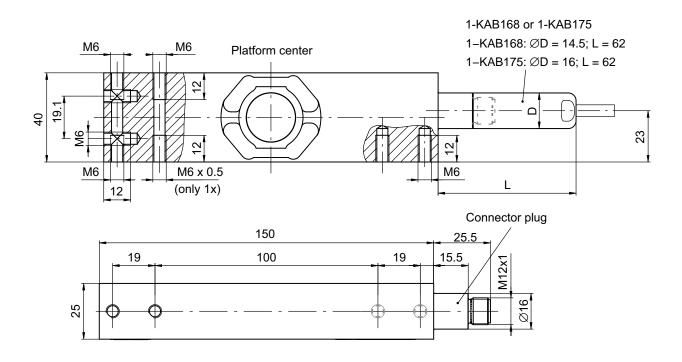
PW15PH...

Single point load cell

Special features

- Maximum capacities 10 ... 100 kg
- Stainless steel
- High ration of minimum verification interval Y
- Meets EMC guidelines
- M12 connection cable (aseptic) and other options available

Dimensions (in mm; 1 mm = 0.03937 inches)





Specifications

| Туре | | | PW15PH | | | |
|------------------------------------------------------------------------------------------------------------------|------------------|---------------------|--------------------------------------------------------------------------------------------------------------|---------------------|--------------------------|-----|
| Accuracy class ¹⁾ | | | | C3 Multi Range (MR) | | |
| Number of load cell verification intervals | n_{LC} | | | 3000 | | |
| Maximum capacity | E _{max} | kg | 10 | 20 | 50 | 100 |
| Minimum load cell verification interval | v _{min} | g | 1 | 2 | 5 | 10 |
| Ratio of minimum verification interval | Y | | | 100 | 000 | |
| Temperature coefficient of the zero signal per 10 K | TK ₀ | % of C _n | | ± 0.0140 | | |
| Maximum platform size | | mm | 500 x 400 | | | |
| Nominal (rated) sensitivity | C _n | | 2.0 ±0.2 | | | |
| Zero signal error | | mV/V | | 0 ±0.1 | | |
| Temperature coefficient of the sensitivity per 10 K ²⁾ in the temperature range +20 +40 °C -10 +20 °C | TK _C | | ±0.0175 ±0.0117 | | | |
| Non-linearity ²⁾ | d _{lin} | % of C _n | ±0.0166 | | | |
| Relative reversibility error ²⁾ | d _{hy} | | ±0.0166 | | | |
| Minimum dead load output return | MDLO R | | ±0.0166 | | | |
| Off-center load error ³⁾ | | | | ±0.0 | 0166 | |
| Input resistance | R _{LC} | 0 | 300 500 | | | |
| Output resistance | R ₀ | Ω | 300 500 | | | |
| Reference excitation voltage | U _{ref} | | 5 | | | |
| Nominal (rated) range of the excitation voltage | B _U | V | V 1 12 | | | |
| Maximum excitation voltage | | | 15 | | | |
| Insulation resistance at 100 V _{DC} | R _{is} | GΩ | >1 | | | |
| Nominal (rated) ambient temperature range | B _T | | | -10 | . +40 | |
| Operating temperature range | B _{tu} | 00 | | -10 +50 | | |
| Storage temperature range | B _{tl} | °C | -25 + 70 | | | |
| Cleaning temperature | | | Max. 120 °C for max. 10 minutes | | | |
| Limit load at 100 mm eccentricity | EL | | | 15 | 50 | |
| Limit load at max. eccentricity of 160 mm | EL | % of | | 150 | | |
| Limit lateral loading, static | E _{lq} | E _{max} | 300 | | | |
| Breaking load | E _d | | 300 | | | |
| Nominal (rated) displacement ⁴⁾ | s _{nom} | mm | <0.5 | | | |
| Weight, approx. | m | kg | 0.9 | | | |
| Degree of protection ⁶⁾ | | | IP68 (test conditions 1 m water column / 100 h); IP69K (water at high pressure, steam cleaner) ⁵⁾ | | | |
| Measuring body material | | | | Stainless ste | eel 1.4545 ⁷⁾ | |

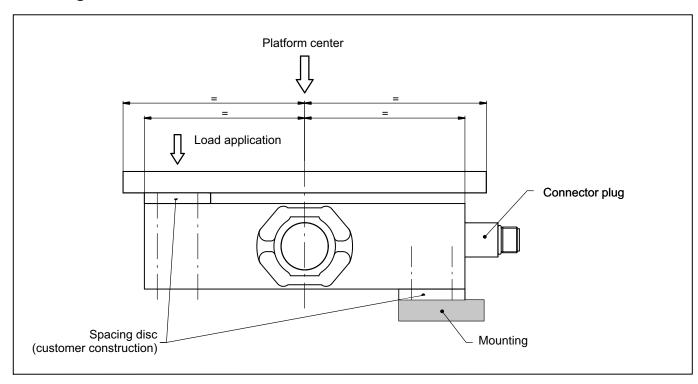
As per OIML R60, with P_{LC} = 0.7.
The values for non-linearity (d_{lin}), relative reversibility error (d_{hy}) and temperature coefficient of sensitivity (TK_C) are recommended values. The sum of these values is within the cumulated error limit laid down by OIML R60.
As per OIML R76.

⁴⁾ Loading with E_{max} and center of gravity in center of load cell. 5) Based on DIN 40050, Part 9 specifications, for road vehicles.

⁶⁾ As per EN 60529 (IEC 529)

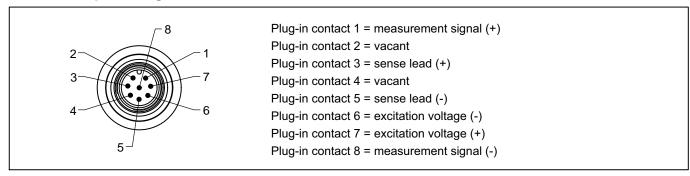
⁷⁾ As per EN 10088–1.

Mounting instructions



| Maximum capacities | Thread | Min. property class | Tightening torque | |
|--------------------|--------|---------------------|-------------------|--|
| 10 100 kg | M6 | 10.9 | 14 N·m | |

Connector pin assignment



Product numbers (overview)

PW15PH... (stainless steel, hermetically sealed)

| Туре | PW15PH |
|------------------|----------------------------|
| Accuracy class | C3-MR (OIML) (Multi Range) |
| Maximum capacity | Ordering number |
| 10 kg | 1-PW15PHC3/10KG-1 |
| 20 kg | 1-PW15PHC3/20KG-1 |
| 50 kg | 1-PW15PHC3/50KG-1 |
| 100 kg | 1-PW15PHC3/100KG-1 |

Accessories



| Connection cable | |
|----------------------------------------------------------------------------------------------------|--------------|
| Connection cable with M12 F connector, 8-pin, TPU IP67, PUR cable sheath, 5 m long | 1-KAB168-5 |
| Connection cable with M12 F connector, 8-pin, TPU IP67, PUR cable sheath, 20 m long | 1-KAB168-20 |
| Connection cable with M12 F connector, 8-pin, stainless steel IP68/IP69K, hygiene design, 3 m long | 1-KAB175-3-1 |
| Connection cable with M12 F connector, 8-pin, stainless steel IP68/IP69K, hygiene design, 6 m long | 1-KAB175-6-1 |

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For connection cable specifications, see separate data sheet B3643.

Pin assignment 1-KAB168

| Color code | Connection |
|------------|------------------------|
| White | Measurement signal (+) |
| Red | Measurement signal (-) |
| Blue | Excitation voltage (+) |
| Pink | Excitation voltage (-) |
| Green | Sense lead (+) |
| Gray | Sense lead (-) |
| Yellow | Not in use |
| Brown | Not in use |

Pin assignment 1-KAB175

| Color code | Connection |
|------------|------------------------|
| White | Measurement signal (+) |
| Red | Measurement signal (-) |
| Blue | Excitation voltage (+) |
| Black | Excitation voltage (-) |
| Green | Sense lead (+) |
| Gray | Sense lead (-) |

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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