

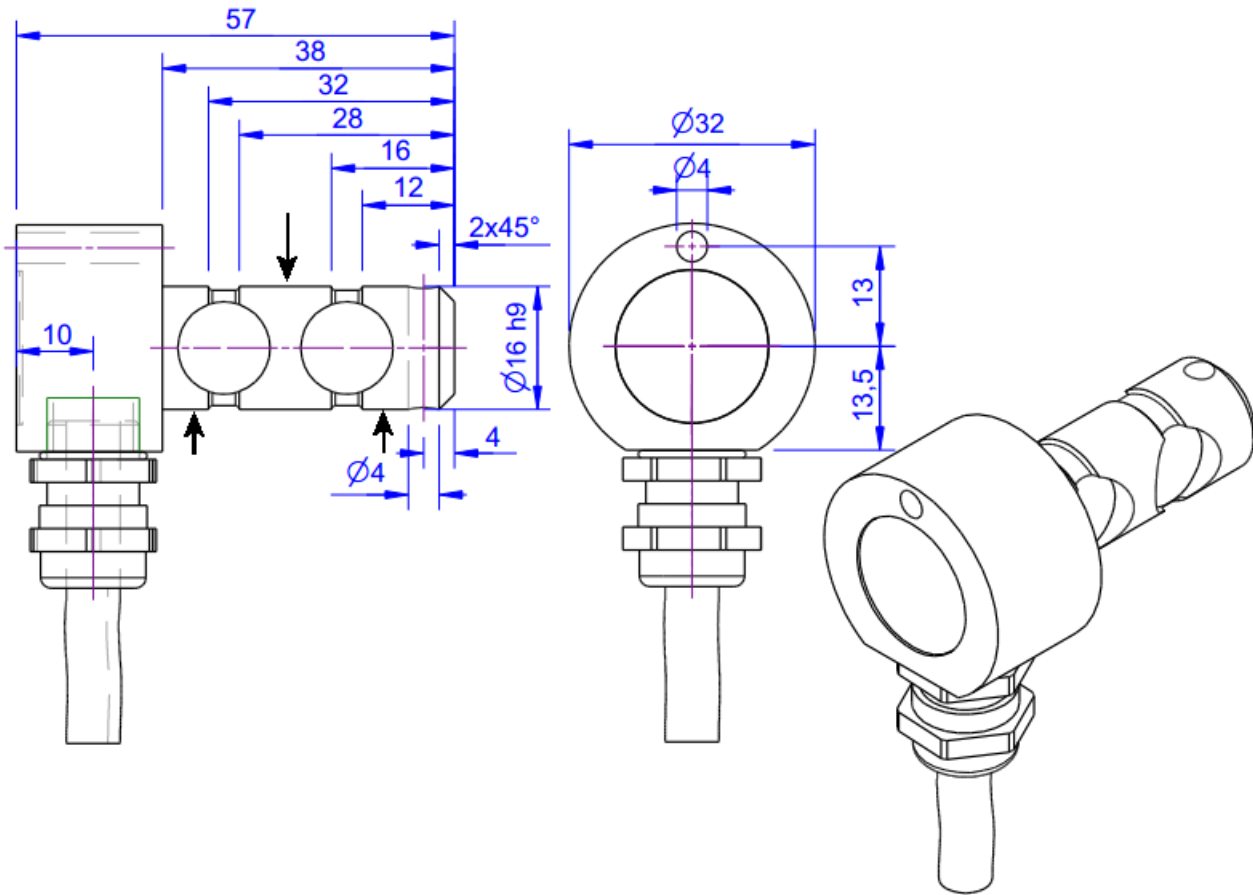
KB16x32 1kN, 2kN, 5kN, 10kN



Description

The plug gauge KB16x32 can be used to measure the force in connection with a fork head of the DIN 71152 / DIN ISO 8140.

Dimensions



Technical Data

Force sensor

| | |
|----------------------------|-----------------------|
| Type | measuring pin |
| Force direction | Tension / Compression |
| Rated force F _x | 1 kN |
| Force introduction | Zylinder |
| Dimension 1 | Ø16x6 |
| Sensor Fastening | Zylinder |
| Dimension 2 | 2xØ16x6 |
| Operating force | 150 %FS |
| Rated displacement | 0.04 mm |
| Material | Stainless steel |
| Height | 16 mm |
| Length or Diameter | 38 mm |

Electrical Data

| | |
|---|-----------------------|
| Input resistance | 390 Ohm |
| Tolerance input resistance | 40 ± |
| Output resistance | 350 Ohm |
| Tolerance output resistance | 1 ± |
| Insulation resistance | 2x10 ⁹ Ohm |
| Rated range of excitation voltage f | 2.5 ... 5 V |
| Operating range of excitation voltage f | 1 ... 10 V |
| Zero signal | 0.05 mV/V |
| Rated output | 1 mV/V / FS |

Precision

| | |
|--|------------|
| Accuracy class | 1% |
| Relative linearity error | 0.2 %FS |
| Relative zero signal hysteresis | 0.05 %FS |
| Temperature effect on zero signal | 0.02 %FS/K |
| Temperature effect on characteristic value | 0.02 %RD/K |
| Relative creep | 0.1 %FS |

Connection Data

| | |
|------------------------|------------------|
| Connection type | 4 conductor open |
| Name of the connection | FD 4x0,14/PUR |
| Cable length | 5 m |

Temperature

| | |
|-------------------------------|---------------|
| Rated temperature range f | -10 ... 70 °C |
| Operating temperature range f | -10 ... 85 °C |
| Storage temperature range f | -10 ... 85 °C |
| Environmental protection | IP66 |



Abbreviation : RD: „Reading“, FS: „Full Scale“;

1) The exact nominal sensitivity is indicated in the test report.




Pin Configuration

| Symbol | Description | Wire colour |
|--------|------------------------|-------------|
| +Us | positive bridge supply | brown |
| -Us | negative bridge supply | white |
| +Ud | positive bridge output | green |
| -Ud | negative bridge output | yellow |

Pressure load: positive output signal.

Shield- transparent.

accessories

| Description | Description |
|---|---|
|  | Calibration Certificate kn/20/5 Factory calibration certificate for force to 20 kN in accordance with DIN EN ISO / IEC 17025 for test materials monitoring according to DIN ISO 9001: 2008 with 5 load levels and 3 series of measurements. |