

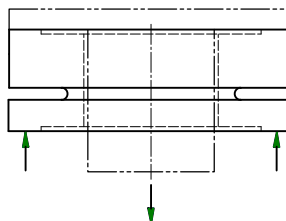
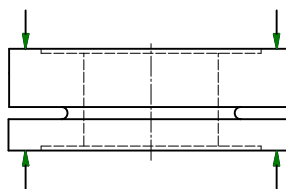
**Druckkraftsensor mit Durchgangsbohrung**  
**Compression Force Sensor with Through Hole**

**K-1250**

- Nennkraft 2 kN ...100 kN
- Flache Bauweise
- Für Einpresskraft-Pressespindeln
- Rostbeständiger Edelstahl
- Schutzart IP60
- Nominal force 2 kN ...100 kN
- Flat dimensions
- For press in force control
- Stainless steel
- Level of protection IP60



Druck / compression



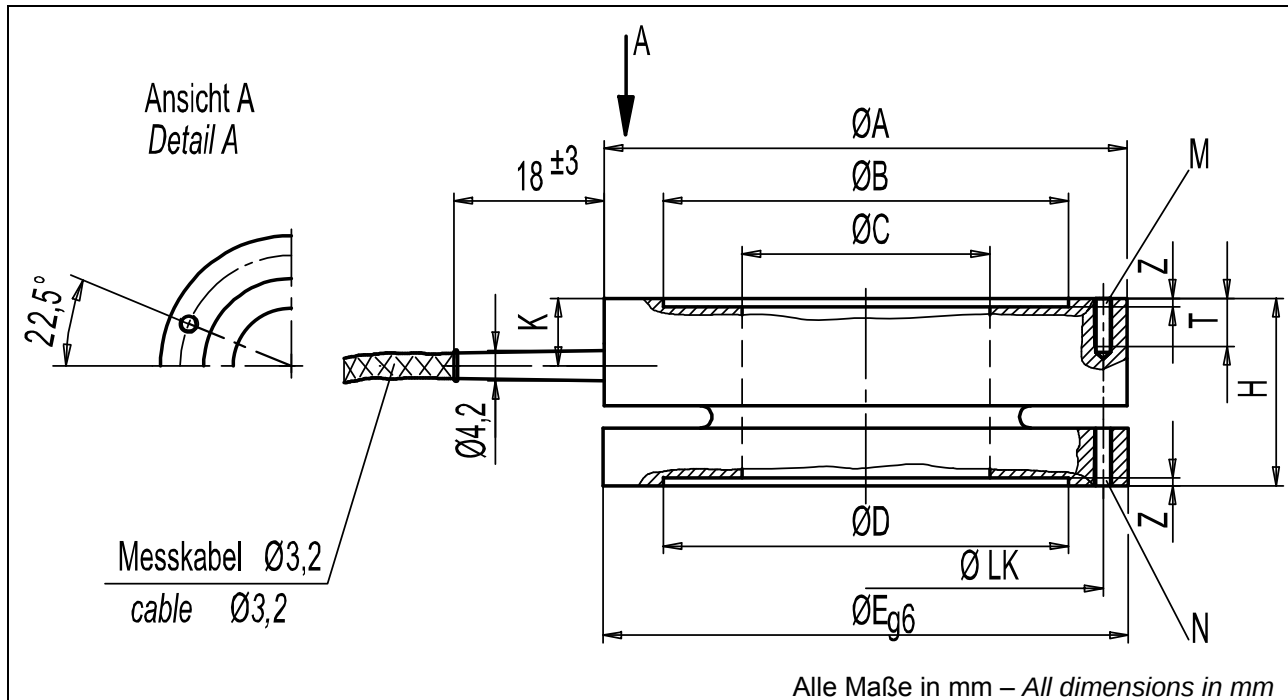
Zug / tension

**Anschlussbelegung - Connection**

|                                                   |                 |
|---------------------------------------------------|-----------------|
| Versorgung (-) - Supply (-)                       | Grün - Green    |
| Versorgung (+) - Supply (+)                       | Braun - Brown   |
| Signal (+) - Signal (+)                           | Gelb - Yellow   |
| Signal (-) - Signal (-)                           | Weiß - White    |
| Kontrollsignal (Option) - Control signal (option) | Grau - Grey     |
| Schirm - Shield                                   | Schirm - Shield |

## Mechanische Abmessungen - Dimensions

**K-1250**



| Nennkraft -<br>Nominal Force [kN] | A     | B  | C  | D  | E   | H  | K  | Z   | M           | T  | LK  | N           |
|-----------------------------------|-------|----|----|----|-----|----|----|-----|-------------|----|-----|-------------|
| 2 / 5 / 10 / 20                   | 69,7  | 54 | 33 | 54 | 70  | 25 | 9  | 0,5 | M5, 8 x 45° | 6  | 62  | M5, 8 x 45° |
| 50 / 100                          | 111,5 | 97 | 70 | 97 | 112 | 35 | 13 | 1,1 | M6, 8 x 45° | 10 | 104 | M6, 8 x 45° |

## TECHNISCHE DATEN - SPECIFICATIONS

| Typ - Type                                                       | K-1250                                            |                    |
|------------------------------------------------------------------|---------------------------------------------------|--------------------|
| Genauigkeitsklasse Druckkraft - Accuracy class compression force | S%                                                | 0,5                |
| Gebrauchslast - Service load                                     | S%                                                | 130                |
| Grenzlast - Limit load                                           | S%                                                | 150                |
| Bruchlast - Ultimate load                                        | S%                                                | >300               |
| Max. dynam. Belastung - Max. dyn. load (DIN 50 100)              | S%                                                | 70                 |
| Nennmessweg - Position feedback                                  | mm                                                | <0,15              |
| Brückenwiderstand - Bridge resistance                            | □                                                 | 700                |
| Isolationswiderstand - Insulation resistance                     | □                                                 | >2*10 <sup>9</sup> |
| Speisespannung - Supply voltage                                  | V                                                 | 2 ... 12           |
| Max. Speisespannung - Max. supply voltage                        | V                                                 | 15                 |
| Nennkennwert (S) - Sensitivity (S)                               | mV/V                                              | 1 ±20%             |
| Temp.koeff. des Kennwertes - Temp. coeff. of sensitivity         | S%/10K                                            | ±0,2               |
| Temp.koeff. des Nullsignals - Temp. coeff. of zero               | S%/10K                                            | ±0,2               |
| Referenztemperatur - Reference temperature                       | °C                                                | +23                |
| Nenntemperaturbereich - Nominal temperature range                | °C                                                | 0 ... +60          |
| Gebrauchstemperaturbereich - Service temperature range           | °C                                                | -10 ... +70        |
| Lagerungstemperaturbereich - Storage temperature range           | °C                                                | -30 ... +95        |
| Veränderlichkeit - Repeatability                                 | S%                                                | 0,1                |
| Rel. Kriechen - Rel. creep                                       | S%/30min                                          | ±0,1               |
| Werkstoff Messkörper - Material housing body                     | Rostbeständiger Stahl -<br>Stainless steel        |                    |
| Werkstoff Deckel - Material cover plate                          | Aluminium - Aluminum                              |                    |
| Schutzart - Level of protection (DIN EN 60529)                   | IP60                                              |                    |
| Elektrischer Anschluss - Electrical connection                   | 3 m, freien Lötenden -<br>3 m, free soldered ends |                    |

## Optionen - Options

|                                                            |      |     |
|------------------------------------------------------------|------|-----|
| Kontrollsignal - Control signal                            | S%   | 100 |
| Nennkennwertabgleich (S) - Sensitivity calibration (S)     | mV/V | 1   |
| 6-Leitertechnik - 6-wire connection                        |      |     |
| Erweiterter Temperaturbereich - Extended temperature range |      |     |

