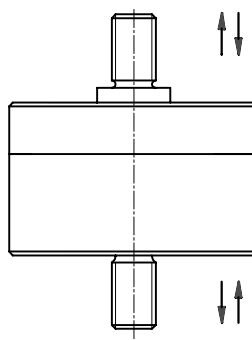
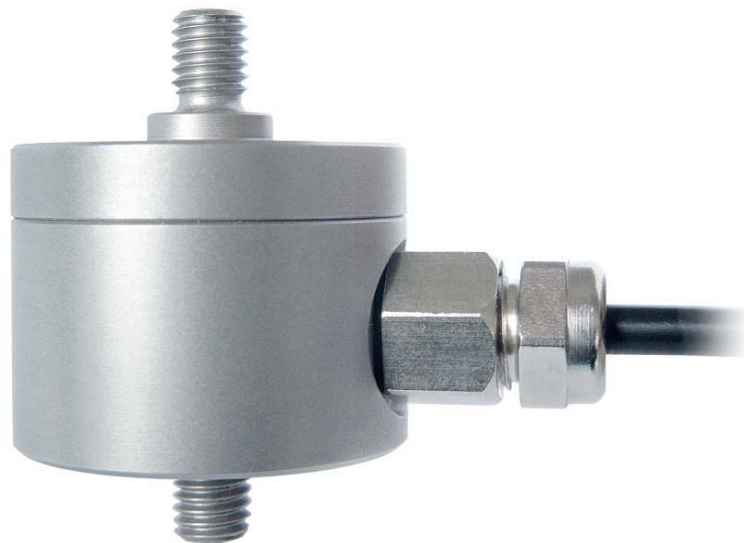


**Zug- und Druckkraftsensor****K- 1563****Tension and Compression Force Sensor**

- Messbereiche 100 ... 2000 N
- Für Zug- und Druckkraft
- Rostbeständiger Edelstahl
- Schutzart IP67

- Measuring ranges 100 ... 2000 N
- For tension force and compression force
- Stainless steel
- Level of protection IP67

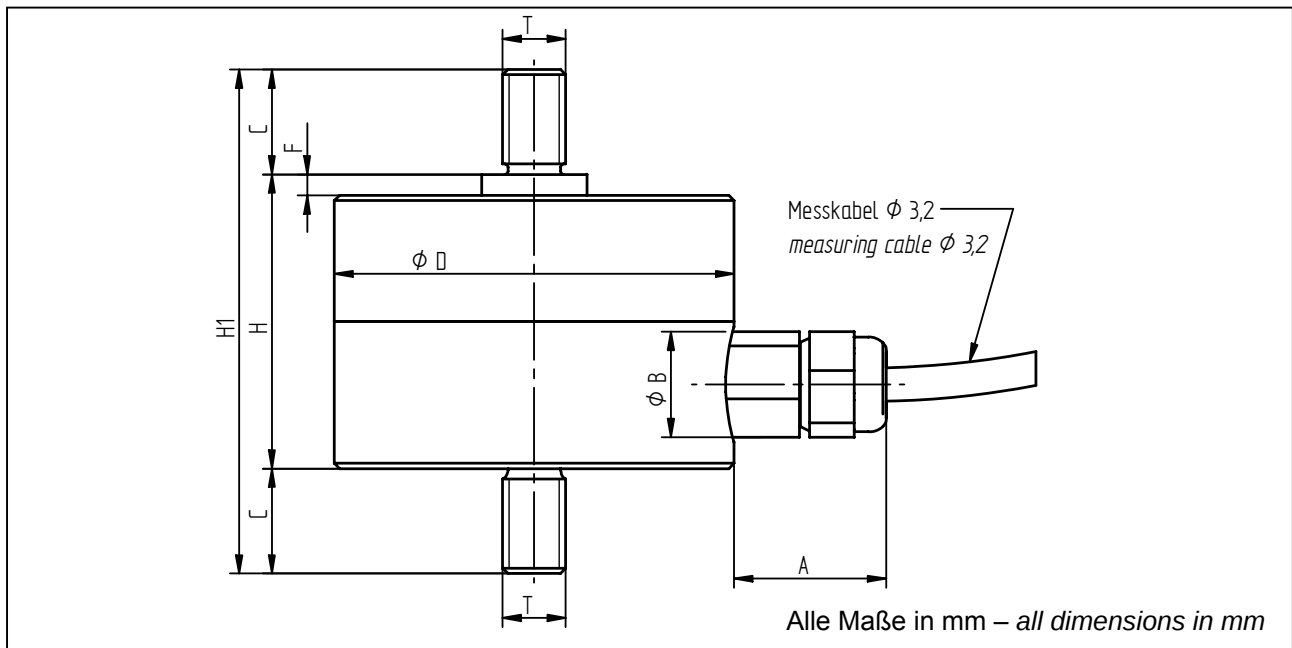
**Anschlussbelegung - Connection**

Versorgung (-) - Supply (-)  
Versorgung (+) - Supply (+)  
Signal (+) - Signal (+)  
Signal (-) - Signal (-)  
Kontrolle (Option) - Calibration control (option)  
Schirm - Shield

Grün - Green  
Braun - Brown  
Gelb - Yellow  
Weiß - White  
Grau - Grey  
Schirm - Shield

## Mechanische Abmessungen - Dimensions

**K-1563**



| Messbereich -<br>Measuring range [N] | A  | Ø B | C   | Ø D | F | H  | H <sub>1</sub> | T  |
|--------------------------------------|----|-----|-----|-----|---|----|----------------|----|
| 100 / 200 / 500                      | 10 | 10  | 6,4 | 25  | 2 | 21 | 33,8           | M5 |
| 1000                                 | 10 | 10  | 8   | 32  | 2 | 23 | 39             | M6 |
| 2000                                 | 14 | 10  | 10  | 38  | 2 | 28 | 48             | M6 |

## TECHNISCHE DATEN - SPECIFICATIONS

| Typ - Type                                                                                         |                                                   | K-1563              |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------|
| Genauigkeitsklasse Zugkraft oder Druckkraft -<br>Accuracy class tension force or compression force | S%                                                | 0,15                |
| Genauigkeitsklasse Zugkraft und Druckkraft -<br>Accuracy class tension force and compression force | S%                                                | 0,3                 |
| Gebrauchslast - Service load                                                                       | S%                                                | 130                 |
| Grenzlant - Limit load                                                                             | S%                                                | 150                 |
| Bruchlast - Ultimate load                                                                          | S%                                                | >300                |
| Max. dynam. Belastung - Max. dynamic load (DIN 50 100)                                             | S%                                                | 70                  |
| Unempfindlichkeit gegen Seitenkräfte - Lateral force resistance                                    | S%                                                | 50                  |
| Nennmessweg - Position feedback                                                                    | mm                                                | <0,1                |
| Brückenwiderstand - Bridge resistance                                                              | Ω                                                 | 350                 |
| Isolationswiderstand - Insulation resistance                                                       | Ω                                                 | >2*10 <sup>9</sup>  |
| Speisespannung - Supply voltage                                                                    | V                                                 | 2 ... 12            |
| Max. Speisespannung - Max. supply voltage                                                          | V                                                 | 15                  |
| Nennkennwert (S) - Sensitivity (S)                                                                 | mV/V                                              | 2,00 [±200 N; 1,00] |
| Kennwerttoleranz - Tolerance of sensitivity                                                        | S%                                                | <±5                 |
| Temp.koeff. des Kennwertes - Temp. coeff. of sensitivity                                           | S%/10K                                            | 0,05                |
| Temp.koeff. des Nullsignals - Temp. coeff. of zero signal                                          | S%/10K                                            | 0,05                |
| Referenztemperatur - Reference temperature                                                         | °C                                                | +23                 |
| Nenntemperaturbereich - Nominal temperature range                                                  | °C                                                | -10 ... +70         |
| Gebrauchstemperaturbereich - Service temperature range                                             | °C                                                | -30 ... +80         |
| Lagerungstemperaturbereich - Storage temperature range                                             | °C                                                | -50 ... +95         |
| Veränderlichkeit - Repeatability                                                                   | S%                                                | 0,1                 |
| Rel. Kriechen - Rel. creep                                                                         | S%/30min                                          | <±0,2               |
| Werkstoff - Material                                                                               | Rostbeständiger Edelstahl -<br>Stainless steel    |                     |
| Schutzart - Level of protection (DIN EN 60529)                                                     | IP67                                              |                     |
| Elektrischer Anschluss - Electrical connection                                                     | 3 m, freien Lötenden -<br>3 m, free soldered ends |                     |

## Option/ Zubehör - Option/ Accessory

|                                                                                |    |     |
|--------------------------------------------------------------------------------|----|-----|
| Kontrolle - Calibration control                                                | S% | 100 |
| Gelenköse Typ EF Datenblatt Nr. 080374 - Rod end type EF data sheet no. 080374 |    |     |

Bei der Bestellung bitte den gewünschten Messbereich angeben! Please specify the required meas. range at order!