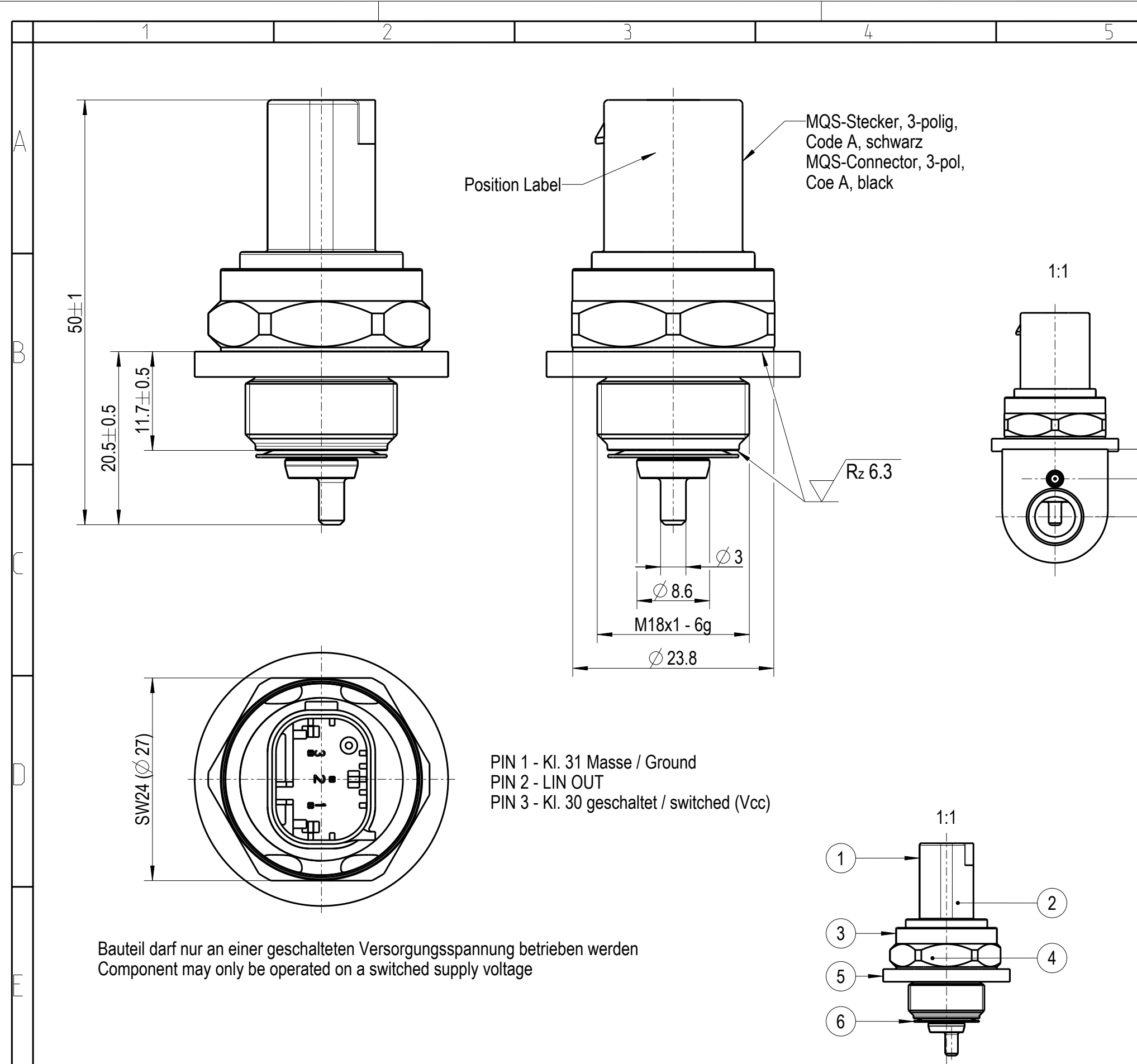


|                           |                              |                                      |
|---------------------------|------------------------------|--------------------------------------|
| Deutsch                   | Englisch                     |                                      |
| Relativdruck zur Umgebung | Relative pressure to ambient | -1 bar ... +179 bar                  |
| Umgebungstemperatur       | Ambient Temperature          | -40°C ... +140°C                     |
| Medium                    | Medium                       | R744                                 |
| Mediumstemperatur         | Medium temperature           | -40°C ... +165°C<br>kurzzeitig 180°C |
| Anzugsmoment              | Mounting Torque              | 70 Nm                                |
| Betriebsspannung          | Operating Temperature        | 9 V - 16 V                           |
| Stromaufnahme             | Current Consumption          | < 20 mA                              |
| Interface                 | Interface                    | LIN 2.0                              |
| LIN Adressierung          | LIN addressing               |                                      |
| NAD                       | NAD                          | 0 x 01                               |
| Frame ID                  | Frame ID                     | 0 x 1E                               |

\*Details siehe mitgeltende LIN-Spezifikation abzustimmen mit Kunden  
For details refer to accompanying LIN specification have to clarified with customer

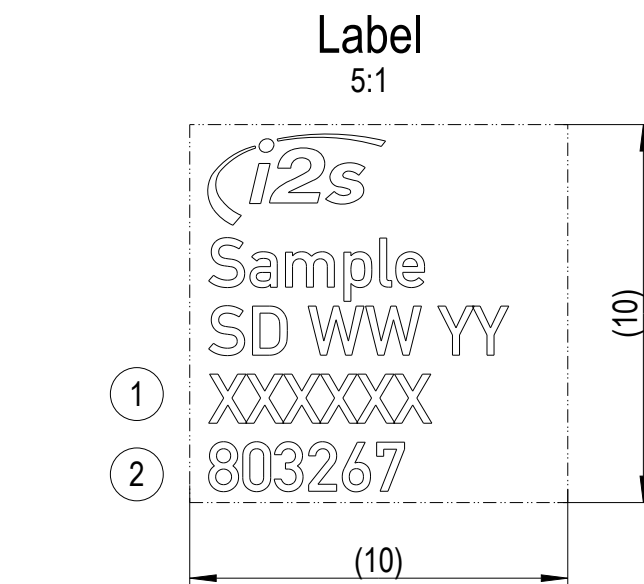
| zulässige $\pm$ Abweichung Drucksignal [% F.S.] (bezogen auf 170 bar)<br>permissible $\pm$ deviation pressure signal [% F.S.] (related to 170 bar) |                                                  |         |         |         |          |           |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|---------|---------|---------|----------|-----------|-----------|
| T.-Bereich<br>Medium [°C]<br>T.-Range<br>medium [°C]                                                                                               | Druckbereich [% F.S.]<br>Pressure Range [% F.S.] |         |         |         |          |           |           |
|                                                                                                                                                    | 0.5 - 10                                         | 10 - 25 | 25 - 50 | 50 - 90 | 90 - 110 | 110 - 140 | 140 - 150 |
| -40 ... -20                                                                                                                                        | 3.24                                             | 3.24    | 3.24    | 3.24    | 3.24     | 3.24      | 3.24      |
| -20 ... -10                                                                                                                                        | 2.65                                             | 2.65    | 2.65    | 2.65    | 2.65     | 2.65      | 2.65      |
| -10 ... -5                                                                                                                                         | 2.35                                             | 2.35    | 2.35    | 2.35    | 2.35     | 2.35      | 2.35      |
| -5 ... 10                                                                                                                                          | 2.06                                             | 2.06    | 2.06    | 2.06    | 2.06     | 2.06      | 2.06      |
| 10 ... 20                                                                                                                                          | 2.06                                             | 2.06    | 2.06    | 2.06    | 2.06     | 2.06      | 2.06      |
| 20 ... 50                                                                                                                                          | 2.06                                             | 2.06    | 2.06    | 2.06    | 2.06     | 2.06      | 2.06      |
| 50 ... 100                                                                                                                                         | 2.06                                             | 2.06    | 2.06    | 1.54    | 1.54     | 1.54      | 1.54      |
| 100 ... 140                                                                                                                                        | 2.06                                             | 2.06    | 2.06    | 1.54    | 0.62     | 0.62      | 0.62      |
| 140 ... 165                                                                                                                                        | 2.06                                             | 2.06    | 2.06    | 1.54    | 0.62     | 0.41      | 0.62      |
| 165 ... 180                                                                                                                                        | 2.06                                             | 2.06    | 2.06    | 1.54    | 0.62     | 0.62      | 0.62      |

| Signal                            | Länge<br>[bit] | Datenbyte<br>und Bit       | Wertebereich<br>Range of values                  | Auflösung<br>Resolution | Init    | Fehler<br>Error |
|-----------------------------------|----------------|----------------------------|--------------------------------------------------|-------------------------|---------|-----------------|
| Kältemittel_p<br>Refrigerant_p    | 12             | Byte0 [7:0]<br>Byte1 [3:0] | (0 ... 170) bar                                  | 0.05 bar                | 4094dez | 4095dez         |
| Kältemittel_T<br>Refrigerant_T    | 12             | Byte1 [7:4]<br>Byte2 [7:0] | (-40 ... 180) °C                                 | 0.1 °C                  | 4094dez | 4095dez         |
| Int_Sensor_T                      | 12             | Byte3 [7:0]<br>Byte4 [3:0] | (-40 ... 140) °C                                 | 0.1 °C                  | 4094dez | 4095dez         |
| Fehler / Error                    | 1              | Byte4 [4]                  | 1=globalfault                                    |                         |         |                 |
| Kommunikation<br>Communication    | 1              | Byte4 [5]                  | 1=checksumerror                                  |                         |         |                 |
| ResponseError                     | 1              | Byte4 [6]                  | 1=responseerror                                  |                         |         |                 |
| TNCTOC                            | 1              | Byte4 [7]                  | 1=TestNot<br>Completed<br>ThisOperation<br>Cycle |                         |         |                 |
| Botschaftslänge<br>Message length | 5 Byte         |                            |                                                  |                         |         |                 |



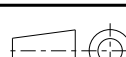
Bauteil darf nur an einer geschalteten Versorgungsspannung betrieben werden  
Component may only be operated on a switched supply voltage

| Nr. | Stk. | Benennung<br>Discription                 | Material            | Oberfläche<br>Surface                            |
|-----|------|------------------------------------------|---------------------|--------------------------------------------------|
| 1   | 1    | Steckergehäuse<br>Conecctor housing      | PBT-GF 30           | -                                                |
| 2   | 3    | Kontaktpins<br>Contacts pins             | CuFe2P              | 1-3µm Sn über 1-2µm Ni<br>1-3µm Sn over 1-2µm Ni |
| 3   | 1    | Druckanschluss<br>Pressure Port          | 1.4305              | -                                                |
| 4   | 1    | Messzelle<br>Measuring cell              | JIS SUS630 / SUS303 | -                                                |
| 5   | 1    | Korrosionsschutz<br>Corrosion protection | Silikon / Silicone  | -                                                |
| 6   | 1    | Dichtscheibe<br>Sealing washer           | 1.4310              | NBR                                              |



|   |                                                                                              |
|---|----------------------------------------------------------------------------------------------|
| 1 | Herstellungsdatum und Seriennummer<br>Schicht/ Wochentag/ Woche/ Jahr<br>fortlaufende Nummer |
|   | Creation Date and Serial number<br>Shift/ Weekday/ Week/ Year<br>consecutive number          |
| 2 | i2s Artikelnummer                                                                            |
|   | i2s Item Number                                                                              |

Maßgebend ist der deutsche Text.  
Only the german-language Version shall be binding.

|                                   |                  |                                                                                       |  |                                                               |      |                                         |  |       |  |                                                        |  |                   |  |
|-----------------------------------|------------------|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------|------|-----------------------------------------|--|-------|--|--------------------------------------------------------|--|-------------------|--|
| Verwendungsbereich<br>Application |                  |  |  | Tolerierung/ Tolerances<br>ISO 14405 - (E)<br>DIN ISO 2768-mK |      | Maßstab<br>Scale                        |  | 2:1   |  | Gewicht<br>Weight                                      |  | 0.041 kg          |  |
|                                   |                  |                                                                                       |  |                                                               |      | Werkstoff/ Material                     |  |       |  |                                                        |  |                   |  |
| 803267<br>Freigegeben             |                  | Maße/ Dim.<br>mm                                                                      |  |                                                               |      |                                         |  |       |  |                                                        |  | Benennung/ Naming |  |
|                                   |                  |                                                                                       |  | Name                                                          |      | 03.03.21                                |  | Frost |  | Druck- Temperatursensor<br>Pressure Temperature Sensor |  |                   |  |
|                                   |                  |                                                                                       |  | Gepr.                                                         |      | 03.03.21                                |  | Bose  |  |                                                        |  |                   |  |
|                                   |                  |                                                                                       |  | Check                                                         |      |                                         |  |       |  |                                                        |  |                   |  |
|                                   |                  |                                                                                       |  |                                                               |      |                                         |  |       |  |                                                        |  |                   |  |
|                                   |                  |                                                                                       |  |                                                               |      |                                         |  |       |  |                                                        |  |                   |  |
|                                   |                  |                                                                                       |  |                                                               |      |                                         |  |       |  |                                                        |  |                   |  |
|                                   |                  |                                                                                       |  |                                                               |      |                                         |  |       |  |                                                        |  |                   |  |
|                                   |                  |                                                                                       |  |                                                               |      |                                         |  |       |  |                                                        |  |                   |  |
|                                   |                  |                                                                                       |  |                                                               |      |                                         |  |       |  |                                                        |  |                   |  |
|                                   |                  |                                                                                       |  |                                                               |      |                                         |  |       |  |                                                        |  |                   |  |
|                                   |                  |                                                                                       |  |                                                               |      |                                         |  |       |  | Zeichnung_Nr./ Drawing Number: Iteration               |  | Blatt/Sheet       |  |
|                                   |                  |                                                                                       |  |                                                               |      |                                         |  |       |  | 1_150085132A 5                                         |  | 1                 |  |
|                                   |                  |                                                                                       |  |                                                               |      |                                         |  |       |  |                                                        |  | Size: A2          |  |
|                                   |                  |                                                                                       |  |                                                               |      |                                         |  |       |  |                                                        |  | 1 Bl./Sh.         |  |
| REV.                              | Änderung/ Change |                                                                                       |  | Dat.                                                          | Name | Intelligente Sensorsysteme Dresden GmbH |  |       |  | Mod.: 1 150037688C                                     |  | Ers. f.:          |  |