

6.2 Pressure sensors

Absolute pressure sensors



Product type

DS-S2-TF

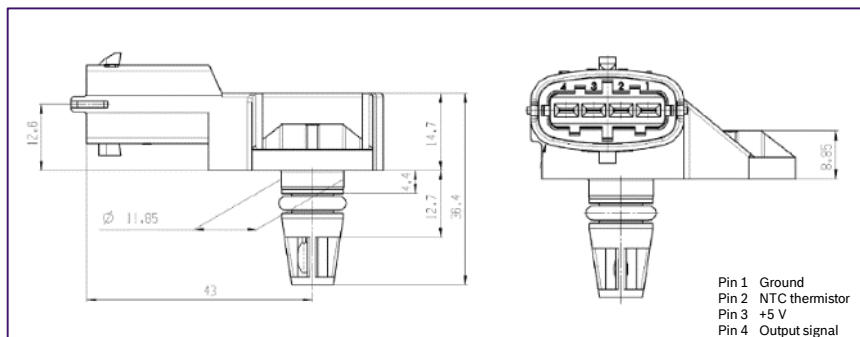
Part number

0 281 002 456

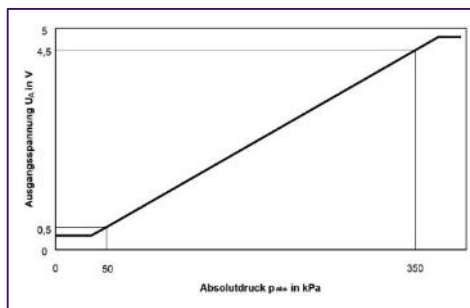
Picture



Dimensional drawings



Characteristic curve



Technical data

| Parameter | | min. | type | Max. |
|------------------------------------|-------------------------------|------|------|------|
| Features | Integrated temperature sensor | | | |
| Pressure range ($p_1 \dots p_2$) | kPa | 50 | | 350 |
| Supply voltage U_V | V | 4,5 | 5 | 5,5 |
| Load current I_L at output | mA | -1 | | 0,5 |
| Response time $\tau_{10/90}$ | ms | | | 1 |
| Operating temperature | °C | -40 | | +130 |

Limit data

| | | | | |
|-----------------------|----|-----|--|------|
| Operating temperature | °C | -40 | | +130 |
|-----------------------|----|-----|--|------|

Temperature sensor

| | | | | |
|--|----|-----|-----------|------|
| Measuring range | °C | -40 | | +130 |
| Measurement current ¹⁾ | mA | | | 1 |
| Rated resistance at +20°C | kΩ | | 2,5 ± 5 % | |
| Temperature/time constant $\tau_{63}^{2)}$ | s | | | 10 |

¹⁾ Operation with 1 kΩ series resistance.

²⁾ In air with flow velocity 6 m/s.

Accessories

| | | |
|---------------------------|---|---------------|
| Connector housing | 4-pin | 1 928 403 736 |
| Contact pins (tin-plated) | For Ø 0.5...1.0 mm ² ; Contents: | 1 928 498 060 |
| Contact pins (tin-plated) | For Ø 1.5...2.5 mm ² ; Contents: | 1 928 498 061 |
| Single-wire seal | For Ø 0.5...1.0 mm ² ; Contents: | 1 928 300 599 |
| Single-wire seal | For Ø 1.5...2.5 mm ² ; Contents: | 1 928 300 600 |
| Dummy plug | | 1 928 300 601 |

Accessories are not included in the scope of delivery of the sensor and therefore to be ordered separately as required.