

# INDUSTRIAL PRESSURE TRANSMITTER

Swiss based Trafag is a leading international supplier of high quality sensors and monitoring instruments for measurement of pressure and temperature. The industrial pressure transmitter NAT 8252 features an exceptionally long-term stable thin-film-on-steel sensor cell with triple (optionally 5-fold) overpressure safety. Optionally, the NAT 8252 is available as a pressure switch with 1 or 2 switching outputs. The robust design and the wide temperature range from -40°C to +125°C qualify the NAT 8252 as the ideal solution for a wide range of demanding applications.



## Applications

- Machine tools
- Hydraulics
- HVAC
- Refrigeration
- Process technology
- Water treatment



## Features

- Smallest design
- Completely welded steel sensor system without additional seals
- Excellent long-term stability
- Optional: 5-fold overpressure resistance
- Optional: Switching output 1 or 2 PNP

## Technical Data

|                       |                                                                                                                                               |                      |                                                                                                                          |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------|
| Measuring principle   | Thin-film-on-steel                                                                                                                            | Accuracy @ 25°C typ. | ± 0.5 % FS typ.                                                                                                          |
| Measuring range       | 0 ... 2.5 to 0 ... 700 bar<br>0 ... 30 to 0 ... 10000 psi                                                                                     | Media temperature    | -40°C ... +125°C                                                                                                         |
| Output signal         | 4 ... 20 mA, 0 ... 5 VDC, 1 ... 5 VDC,<br>1 ... 6 VDC, 0 ... 10 VDC and more,<br>0.5 ... 4.5 VDC ratiometric,<br>Switching output: 1 or 2 PNP | Ambient temperature  | max. -40°C ... +125°C<br>(UL-rated ambient temperature:<br>-20°C ... +80°C)<br>Details see section Electrical Connection |
| NLH @ 25°C (BSL) typ. | ± 0.2 % FS typ.                                                                                                                               |                      |                                                                                                                          |

05/2025

Data sheet H72303ai

Subject to change

## Ordering information/type code

|                               |                                  |                     |                      | 8252 . XX | XX                               | XX                  | XX                   | XX | XX |
|-------------------------------|----------------------------------|---------------------|----------------------|-----------|----------------------------------|---------------------|----------------------|----|----|
| Measuring range <sup>1)</sup> | Pressure measurement range [bar] | Over pressure [bar] | Burst pressure [bar] |           | Pressure measurement range [psi] | Over pressure [psi] | Burst pressure [psi] |    |    |
|                               | 0 ... 2.5                        | 7.5                 | 50                   | 75        | 0 ... 30                         | 90                  | 700                  | G5 |    |
|                               | 0 ... 4                          | 12                  | 60                   | 76        | 0 ... 50                         | 150                 | 850                  | G6 |    |
|                               | 0 ... 6                          | 18                  | 100                  | 77        | 0 ... 100                        | 300                 | 1450                 | G7 |    |
|                               | 0 ... 10                         | 30                  | 200                  | 78        | 0 ... 150                        | 450                 | 2500                 | G8 |    |
|                               | 0 ... 16                         | 48                  | 200                  | 79        | 0 ... 200                        | 600                 | 2500                 | GA |    |
|                               | 0 ... 25                         | 75                  | 300                  | 80        | 0 ... 250                        | 750                 | 2500                 | G9 |    |
|                               | 0 ... 40                         | 120                 | 300                  | 81        | 0 ... 300                        | 900                 | 4000                 | HA |    |
|                               | 0 ... 60                         | 180                 | 400                  | 82        | 0 ... 400                        | 1200                | 4000                 | H0 |    |
|                               | 0 ... 100                        | 300                 | 500                  | 83        | 0 ... 500                        | 1500                | 4000                 | H1 |    |
|                               | 0 ... 160                        | 480                 | 750                  | 85        | 0 ... 1000                       | 3000                | 5000                 | H2 |    |
|                               | 0 ... 250                        | 750                 | 1000                 | 74        | 0 ... 1500                       | 4500                | 7000                 | H3 |    |
|                               | 0 ... 400                        | 1000                | 2000                 | 84        | 0 ... 2000                       | 6000                | 10000                | H5 |    |
|                               | 0 ... 600                        | 1500                | 2500                 | 86        | 0 ... 3000                       | 9000                | 14500                | G4 |    |
|                               | 0 ... 700                        | 1500                | 2500                 | 87        | 0 ... 5000                       | 12500               | 21750                | H4 |    |
|                               |                                  |                     |                      |           | 0 ... 7500                       | 18750               | 29000                | H6 |    |
|                               |                                  |                     |                      |           | 0 ... 10000                      | 18750               | 29000                | H7 |    |
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|------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------|-----------------------|----|--|--|
| <b>Electrical connection</b> | Male electrical connector, industrial standard, contact distance 9.4 mm, Mat. PA, EN 175301-803C                             |                        |                   |                       | 01 |  |  |
|                              | Male electrical connector M12x1, 4-pole, Mat. PA, IEC 61076-2-101                                                            |                        |                   |                       | 32 |  |  |
|                              | Male electrical connector M12x1, 5-pole, Mat. PA, IEC 61076-2-101                                                            |                        |                   |                       | 35 |  |  |
|                              | Male electrical connector MIL-C 26482, 6-pole, metal                                                                         |                        |                   |                       | 02 |  |  |
|                              | Male electrical connector Deutsch DT04-3P, 3-pole                                                                            |                        |                   |                       | D3 |  |  |
|                              | Male electrical connector Deutsch DT04-4P, 4-pole                                                                            |                        |                   |                       | D4 |  |  |
|                              | Cable Mat. PVC, IP67/IP68, 2 x 2 x 0.14 mm <sup>2</sup> , max. traction on cable: 2 N <sup>7)</sup>                          |                        |                   |                       | 22 |  |  |
|                              | Cable Mat. PUR, IP67/IP68, 4 x 0.25 mm <sup>2</sup> , shielded <sup>7)</sup>                                                 |                        |                   |                       | 24 |  |  |
|                              | Cable Mat. EPD Raychem FDR25, IP67, 4 x 0.2 mm <sup>2</sup> , shielded <sup>7)</sup>                                         |                        |                   |                       | 08 |  |  |
|                              | Cable Mat. Radox Tenuis, IP67/IP68, 4 x 0.5 mm <sup>2</sup> , shielded <sup>7)</sup>                                         |                        |                   |                       | 88 |  |  |
|                              | Compact design: Cable Mat. PVC, IP40, 2 x 2 x 0.14 mm <sup>2</sup> , shielded, max. traction on cable: 2 N <sup>9) 16)</sup> |                        |                   |                       | A1 |  |  |
|                              | JST (or compatible) Board to Cable/Wire Disconnectable Crimp style connector, BM04B-SRSS-TB, IP20, 4-pole <sup>9)</sup>      |                        |                   |                       | J4 |  |  |
| <b>Output signal</b>         | <b>Signal output</b>                                                                                                         | <b>Load resistance</b> | <b>I (supply)</b> | <b>U (supply)</b>     |    |  |  |
|                              | 4 ... 20 mA                                                                                                                  | See graphic            | (= signal output) | 24 (9 ... 32) VDC     | 19 |  |  |
|                              | 0.5 ... 4.5 VDC                                                                                                              | ≥ 5.0 kΩ to Us-        | ≤ 20 mA           | 24 (9 ... 32) VDC     | 20 |  |  |
|                              | 0 ... 5 VDC                                                                                                                  | ≥ 5.0 kΩ to Us-        | ≤ 20 mA           | 24 (9 ... 32) VDC     | 14 |  |  |
|                              | 0.1 ... 4.1 VDC                                                                                                              | ≥ 5.0 kΩ to Us-        | ≤ 20 mA           | 24 (9 ... 32) VDC     | 28 |  |  |
|                              | 0.1 ... 5.1 VDC                                                                                                              | ≥ 5.0 kΩ to Us-        | ≤ 20 mA           | 24 (9 ... 32) VDC     | 29 |  |  |
|                              | 0.5 ... 5 VDC                                                                                                                | ≥ 5.0 kΩ to Us-        | ≤ 20 mA           | 24 (9 ... 32) VDC     | 22 |  |  |
|                              | 1 ... 5 VDC                                                                                                                  | ≥ 5.0 kΩ to Us-        | ≤ 20 mA           | 24 (9 ... 32) VDC     | 25 |  |  |
|                              | 0.5 ... 5.5 VDC                                                                                                              | ≥ 5.0 kΩ to Us-        | ≤ 20 mA           | 24 (9 ... 32) VDC     | 24 |  |  |
|                              | 1 ... 6 VDC                                                                                                                  | ≥ 5.0 kΩ to Us-        | ≤ 20 mA           | 24 (9 ... 32) VDC     | 16 |  |  |
|                              | 0 ... 10 VDC                                                                                                                 | ≥ 5.0 kΩ to Us-        | ≤ 15 mA           | 24 (15 ... 32) VDC    | 17 |  |  |
|                              | 1 ... 10 VDC                                                                                                                 | ≥ 5.0 kΩ to Us-        | ≤ 15 mA           | 24 (15 ... 32) VDC    | 26 |  |  |
|                              | 0.1 ... 10.1 VDC                                                                                                             | ≥ 5.0 kΩ to Us-        | ≤ 15 mA           | 24 (15 ... 32) VDC    | 13 |  |  |
|                              | 0.5 ... 4.5 VDC ratiometric                                                                                                  | ≥ 5.0 kΩ to Us-        | ≤ 10 mA           | 5 (4.75 ... 5.25) VDC | 23 |  |  |
|                              | 2 PNP transistors <sup>3)</sup>                                                                                              |                        | ≤ 10 mA           | 24 (9 ... 32) VDC     | PS |  |  |
|                              | 1 PNP transistor <sup>10)</sup>                                                                                              |                        | ≤ 10 mA           | 24 (9 ... 32) VDC     | T1 |  |  |

|                    |                                                                                                                                                                                                                                  |    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| <b>Accessories</b> | Female electrical plug M12x1, 5-pole <sup>2)</sup>                                                                                                                                                                               | 33 |
|                    | Female electrical plug industrial standard (for electrical connection 01), EN 175301-803C                                                                                                                                        | 34 |
|                    | Pressure peak damping element ø 1.0 mm <sup>6)</sup>                                                                                                                                                                             | 40 |
|                    | Pressure peak damping element ø 0.4 mm <sup>6)</sup>                                                                                                                                                                             | 44 |
|                    | Seal FKM, -18°C ... +125°C                                                                                                                                                                                                       | 61 |
|                    | Seal EPDM, -40°C ... +125°C                                                                                                                                                                                                      | 63 |
|                    | Seal NBR, -25°C ... +100°C                                                                                                                                                                                                       | 83 |
|                    | Special electrical connection: Pin 2 +, Pin 3 Ground, Pin 4 -<br>(only for output signal 19 and male electrical connector 01, industrial standard)                                                                               | 90 |
|                    | Special electrical connection: Pin 1 Out, Pin 2 +, Pin 3 Ground, Pin 4 -<br>(only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 01, industrial standard)                       | 91 |
|                    | Special electrical connection: Pin 1 +, Pin 2 Ground, Pin 3 Out, Pin 4 -<br>(only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 32, M12x1, 4-pole)                             | 95 |
|                    | Special electrical connection: Pin 1 +, Pin 2 Ground, Pin 3 -, Pin 4 Out<br>(only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 32, M12x1, 4-pole)                             | 96 |
|                    | Special electrical connection: Pin 1 +, Pin 3 -, Pin 4 Out<br>(only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 32, M12x1, 4-pole)                                           | G1 |
|                    | Special electrical connection: Pin 1 +, Pin 2 -, Pin 4 Ground<br>(only for output signal 19 and male electrical connector 01, industrial standard)                                                                               | 92 |
|                    | Special electrical connection: Pin 1 +, Pin 2 -, Pin 4 Ground<br>(only for output signal 19 and male electrical connector 32, M12x1, 4-pole)                                                                                     | E1 |
|                    | Special electrical connection: Pin 1 +, Pin 2 -, Pin 3 Out, Pin 4 Ground<br>(only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 32, M12x1, 4-pole)                             | E2 |
|                    | Special electrical connection: Pin 1 Out, Pin 2 -, Pin 3 +, Pin 4 Ground<br>(only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 01, industrial standard)                       | E3 |
|                    | Special electrical connection: Pin 1 +, Pin 2 -, Pin 3 Out, Pin 4 Ground<br>(only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 01, industrial standard)                       | E9 |
|                    | Special electrical connection: Pin 1 +, Pin 2 Ground, Pin 4 -<br>(only for output signal 19 and male electrical connector 32, M12x1, 4-pole)                                                                                     | E6 |
|                    | Special electrical connection: Pin A +, Pin C -<br>(only for output signal 19 and male electrical connector Deutsch DT04-3P, 3-pole)                                                                                             | F0 |
|                    | Special electrical connection: Pin A +, Pin B Out, Pin C -<br>(only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector Deutsch DT04-3P, 3-pole)                                     | F1 |
|                    | Special electrical connection: Pin 2 +, Pin 3 -<br>(only for output signals 19 and male electrical connector Deutsch DT04-4P, 4-pole)                                                                                            | G3 |
|                    | Special electrical connection: Pin 1 Out, Pin 2 +, Pin 3 -<br>(only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector Deutsch DT04-4P, 4-pole)                                     | G4 |
|                    | Special electrical connection: Pin A +, Pin C Out, Pin B/D -, Pin E Ground (Pin B and D are connected)<br>(only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 02, MIL-C 26482) | F3 |
|                    | Special electrical connection: Pin 1 +, Pin 2 -<br>(only for output signal 19 and male electrical connector 32, M12x1, 4-pole)                                                                                                   | F4 |
|                    | Special electrical connection: Pin 1 +, Pin 3 -<br>(only for output signal 19 and male electrical connector 32, M12x1, 4-pole)                                                                                                   | F5 |
|                    | Special electrical connection: Pin 1 +, Pin 2 -, Pin 3 -, Pin 4 Ground<br>(only for output signals 19 and male electrical connector 32, M12x1, 4-pole)                                                                           | G2 |
|                    | Special electrical connection: Pin 1 +, Pin 4 -<br>(only for output signals 19 and male electrical connector 32, M12x1, 4-pole)                                                                                                  | G5 |
|                    | Special electrical connection: Pin 2 -, Pin 3 +, Pin 4 Ground<br>(only for output signals 19 and male electrical connector 32, M12x1, 4-pole)                                                                                    | G8 |
|                    | Special electrical connection: Pin 1 +, Pin 2 Out, Pin 3 Ground, Pin 4 -<br>(only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 32, M12x1, 4-pole)                             | F6 |
|                    | Special electrical connection: Pin 1 +, Pin 2 Out, Pin 3 -<br>(only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 32, M12x1, 4-pole)                                           | F7 |
|                    | Cable length 0.5 m                                                                                                                                                                                                               | EM |
|                    | Cable length 1.0 m                                                                                                                                                                                                               | 1M |
|                    | Cable length 2.0 m                                                                                                                                                                                                               | 2M |
|                    | Parametrisation according to customer specification for output signal PS, T1 (see table "Parameters")                                                                                                                            | ZC |
|                    | Parametrisation standard for output signal PS, T1 (see table "Parameters")                                                                                                                                                       | ZS |
|                    | Multiple packaging <sup>8)</sup>                                                                                                                                                                                                 | VM |
|                    | UL-listed version <sup>13)</sup>                                                                                                                                                                                                 | UL |
|                    | Enhanced condensation protection                                                                                                                                                                                                 | CP |

<sup>1)</sup> Customized pressure ranges upon request

<sup>2)</sup> For electrical connections 32 and 35

<sup>3)</sup> Only with electrical connections 32, 22, 24, 08, 88

<sup>4)</sup> Max. allowable pressure range 60 bar (870 psi) at 180 bar (2610 psi) overpressure

<sup>5)</sup> Max. allowable pressure range 160 bar (2320 psi) at 480 bar (6961 psi) overpressure

<sup>6)</sup> Not for pressure connections 53, 24, 44, 18

<sup>7)</sup> Cable length see accessories

<sup>8)</sup> The order quantity must be a multiple of 50, only for electrical connections 01, 32, 35, 02, D3, D4, not for pressure connection 30 with electrical connections 02, D3, D4

<sup>9)</sup> Upon request

<sup>10)</sup> Only with electrical connections 32, 22, 24, 08, 88, D3

<sup>11)</sup> Without seal, use seal geometry according DIN EN ISO 6149-2

<sup>12)</sup> Max. allowable pressure range 400 bar (5800 psi) at 600 bar (8700 psi) overpressure

<sup>13)</sup> Possible type code combinations for UL-listed versions see separate table

<sup>14)</sup> Measuring range max. 630 bar according to SAE J1926-2 (Heavy Duty)

<sup>15)</sup> For measuring ranges  $\geq 2$  bar

<sup>16)</sup> Cable length 2m only, with accessory 2M

## Standard products (extra short lead time)

| Product No. | Type Code                             | Pressure range [bar] | Over pressure max. [bar] | Supply [VDC] | Accuracy @ 25°C typ. [%] |
|-------------|---------------------------------------|----------------------|--------------------------|--------------|--------------------------|
| NAT2.5A     | 8252 75 2517 01 0000 0000 19 34 44 61 | 0 ... 2.5            | 7.5                      | 9 ... 32     | ±0.5                     |
| NAT4.0A     | 8252 76 2517 01 0000 0000 19 34 44 61 | 0 ... 4              | 12                       | 9 ... 32     | ±0.5                     |
| NAT6.0A     | 8252 77 2517 01 0000 0000 19 34 44 61 | 0 ... 6              | 18                       | 9...32       | ±0.5                     |
| NAT10.0A    | 8252 78 2517 01 0000 0000 19 34 44 61 | 0 ... 10             | 30                       | 9...32       | ±0.5                     |
| NAT16.0A    | 8252 79 2517 01 0000 0000 19 34 44 61 | 0 ... 16             | 48                       | 9 ... 32     | ±0.5                     |
| NAT25.0A    | 8252 80 2517 01 0000 0000 19 34 44 61 | 0 ... 25             | 75                       | 9 ... 32     | ±0.5                     |
| NAT40.0A    | 8252 81 2517 01 0000 0000 19 34 44 61 | 0 ... 40             | 120                      | 9 ... 32     | ±0.5                     |
| NAT60.0A    | 8252 82 2517 01 0000 0000 19 34 44 61 | 0 ... 60             | 180                      | 9 ... 32     | ±0.5                     |
| NAT100.0A   | 8252 83 2517 01 0000 0000 19 34 44 61 | 0 ... 100            | 300                      | 9 ... 32     | ±0.5                     |
| NAT250.0A   | 8252 74 2517 01 0000 0000 19 34 44 61 | 0 ... 250            | 750                      | 9 ... 32     | ±0.5                     |
| NAT400.0A   | 8252 84 2517 01 0000 0000 19 34 44 61 | 0 ... 400            | 1000                     | 9 ... 32     | ±0.5                     |
| NAT600.0A   | 8252 86 2517 01 0000 0000 19 34 44 61 | 0 ... 600            | 1500                     | 9 ... 32     | ±0.5                     |
| NAT2.5V     | 8252 75 2517 01 0000 0000 17 34 44 61 | 0 ... 2.5            | 7.5                      | 15 ... 32    | ±0.5                     |
| NAT4.0V     | 8252 76 2517 01 0000 0000 17 34 44 61 | 0 ... 4              | 12                       | 15 ... 32    | ±0.5                     |
| NAT6.0V     | 8252 77 2517 01 0000 0000 17 34 44 61 | 0 ... 6              | 18                       | 15 ... 32    | ±0.5                     |
| NAT10.0V    | 8252 78 2517 01 0000 0000 17 34 44 61 | 0 ... 10             | 30                       | 15 ... 32    | ±0.5                     |
| NAT16.0V    | 8252 79 2517 01 0000 0000 17 34 44 61 | 0 ... 16             | 48                       | 15 ... 32    | ±0.5                     |
| NAT25.0V    | 8252 80 2517 01 0000 0000 17 34 44 61 | 0 ... 25             | 75                       | 15 ... 32    | ±0.5                     |
| NAT40.0V    | 8252 81 2517 01 0000 0000 17 34 44 61 | 0 ... 40             | 120                      | 15 ... 32    | ±0.5                     |
| NAT60.0V    | 8252 82 2517 01 0000 0000 17 34 44 61 | 0 ... 60             | 180                      | 9 ... 32     | ±0.5                     |
| NAT100.0V   | 8252 83 2517 01 0000 0000 17 34 44 61 | 0 ... 100            | 300                      | 15 ... 32    | ±0.5                     |
| NAT250.0V   | 8252 74 2517 01 0000 0000 17 34 44 61 | 0 ... 250            | 750                      | 15 ... 32    | ±0.5                     |
| NAT400.0V   | 8252 84 2517 01 0000 0000 17 34 44 61 | 0 ... 400            | 1000                     | 15 ... 32    | ±0.5                     |
| NAT600.0V   | 8252 86 2517 01 0000 0000 17 34 44 61 | 0 ... 600            | 1500                     | 15 ... 32    | ±0.5                     |
| NAT2.5AM    | 8252 75 2517 32 0000 0000 19 33 44 61 | 0 ... 2.5            | 7.5                      | 9 ... 32     | ±0.5                     |
| NAT4.0AM    | 8252 76 2517 32 0000 0000 19 33 44 61 | 0 ... 4              | 12                       | 9 ... 32     | ±0.5                     |
| NAT6.0AM    | 8252 77 2517 32 0000 0000 19 33 44 61 | 0 ... 6              | 18                       | 9 ... 32     | ±0.5                     |
| NAT10.0AM   | 8252 78 2517 32 0000 0000 19 33 44 61 | 0 ... 10             | 30                       | 9 ... 32     | ±0.5                     |
| NAT16.0AM   | 8252 79 2517 32 0000 0000 19 33 44 61 | 0 ... 16             | 48                       | 9 ... 32     | ±0.5                     |
| NAT25.0AM   | 8252 80 2517 32 0000 0000 19 33 44 61 | 0 ... 25             | 75                       | 9 ... 32     | ±0.5                     |
| NAT40.0AM   | 8252 81 2517 32 0000 0000 19 33 44 61 | 0 ... 40             | 120                      | 9 ... 32     | ±0.5                     |
| NAT60.0AM   | 8252 82 2517 32 0000 0000 19 33 44 61 | 0 ... 60             | 180                      | 9 ... 32     | ±0.5                     |
| NAT100.0AM  | 8252 83 2517 32 0000 0000 19 33 44 61 | 0 ... 100            | 300                      | 9 ... 32     | ±0.5                     |
| NAT160.0AM  | 8252 85 2517 32 0000 0000 19 33 44 61 | 0 ... 160            | 480                      | 9 ... 32     | ±0.5                     |
| NAT250.0AM  | 8252 74 2517 32 0000 0000 19 33 44 61 | 0 ... 250            | 750                      | 9 ... 32     | ±0.5                     |
| NAT400.0AM  | 8252 84 2517 32 0000 0000 19 33 44 61 | 0 ... 400            | 1000                     | 9 ... 32     | ±0.5                     |
| NAT600.0AM  | 8252 86 2517 32 0000 0000 19 33 44 61 | 0 ... 600            | 1500                     | 9 ... 32     | ±0.5                     |

## Standard products (extra short lead time)

| Product No. | Type Code                             | Pressure range [bar] | Over pressure max. [bar] | Supply [VDC] | Accuracy @ 25°C typ. [%] |
|-------------|---------------------------------------|----------------------|--------------------------|--------------|--------------------------|
| NAT2.5PS    | 8252 75 2517 32 0000 0000 PS 44 61 ZS | 0 ... 2.5            | 7.5                      | 9 ... 32     | ±0.5                     |
| NAT4.0PS    | 8252 76 2517 32 0000 0000 PS 44 61 ZS | 0 ... 4              | 12                       | 9 ... 32     | ±0.5                     |
| NAT6.0PS    | 8252 77 2517 32 0000 0000 PS 44 61 ZS | 0 ... 6              | 18                       | 9 ... 32     | ±0.5                     |
| NAT10.0PS   | 8252 78 2517 32 0000 0000 PS 44 61 ZS | 0 ... 10             | 30                       | 9 ... 32     | ±0.5                     |
| NAT16.0PS   | 8252 79 2517 32 0000 0000 PS 44 61 ZS | 0 ... 16             | 48                       | 9 ... 32     | ±0.5                     |
| NAT25.0PS   | 8252 80 2517 32 0000 0000 PS 44 61 ZS | 0 ... 25             | 75                       | 9 ... 32     | ±0.5                     |
| NAT40.0PS   | 8252 81 2517 32 0000 0000 PS 44 61 ZS | 0 ... 40             | 120                      | 9 ... 32     | ±0.5                     |
| NAT60.0PS   | 8252 82 2517 32 0000 0000 PS 44 61 ZS | 0 ... 60             | 180                      | 9 ... 32     | ±0.5                     |
| NAT100.0PS  | 8252 83 2517 32 0000 0000 PS 44 61 ZS | 0 ... 100            | 300                      | 9 ... 32     | ±0.5                     |
| NAT160.0PS  | 8252 85 2517 32 0000 0000 PS 44 61 ZS | 0 ... 160            | 480                      | 9 ... 32     | ±0.5                     |
| NAT250.0PS  | 8252 74 2517 32 0000 0000 PS 44 61 ZS | 0 ... 250            | 750                      | 9 ... 32     | ±0.5                     |
| NAT400.0PS  | 8252 84 2517 32 0000 0000 PS 44 61 ZS | 0 ... 400            | 1000                     | 9 ... 32     | ±0.5                     |
| NAT600.0PS  | 8252 86 2517 32 0000 0000 PS 44 61 ZS | 0 ... 600            | 1500                     | 9 ... 32     | ±0.5                     |

## Ordering information: Possible type code combinations for UL-listed versions

|                       | Combination with UL        |
|-----------------------|----------------------------|
| Measuring range       | all ranges ≤ 700 bar       |
| Sensor                | all codes on datasheet     |
| Pressure connection   | all codes on datasheet     |
| Electrical connection | all codes except A1 and J4 |
| Output signal         | all codes except PS and T1 |
| Accessories           | all codes on datasheet     |

| Parameters                                                                                             |                                 |                                                                                                    |            |                                    |
|--------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------|------------|------------------------------------|
| Name                                                                                                   | Standard setting (accessory ZS) | Value range                                                                                        | Short name | Customer adjustment (accessory ZC) |
| Switch point SP1 (hysteresis mode)<br>Upper switch point FH1 (window mode)                             | 75 % Measuring range            | > RP1, FL1 (2 ... 99 %)<br>Hysteresis $\geq 1$ % FS                                                | SP1        |                                    |
| Reset point RP1 (hysteresis mode)<br>Lower switch point FL1 (window mode)                              | 25 % Measuring range            | < SP1, FH1 (1 ... 98 %)<br>Hysteresis $\geq 1$ % FS                                                | RP1        |                                    |
| Switch point SP2 (hysteresis mode)<br>Upper switch point FH2 (window mode)                             | 75 % Measuring range            | > RP2, FL2 (2 ... 99 %)<br>Hysteresis $\geq 1$ % FS                                                | SP2        |                                    |
| Reset point RP2 (hysteresis mode)<br>Lower switch point FL2 (window mode)                              | 25 % Measuring range            | < SP2, FH2 (1 ... 98 %)<br>Hysteresis $\geq 1$ % FS                                                | RP2        |                                    |
| Switch point delay time SP1 / RP1 (hysteresis mode)<br>Switch point delay time FH1 / FL1 (window mode) | 0                               | 0; approx. 2*[ms],<br>x = 3, 4 ... 16                                                              | dS1        |                                    |
| Switch point delay time SP2 / RP2 (hysteresis mode)<br>Switch point delay time FH2 / FL2 (window mode) | 0                               | 0; approx. 2*[ms],<br>x = 3, 4 ... 16                                                              | dS2        |                                    |
| Functions switching output 1                                                                           | Hysteresis, closer (Hno)        | Hysteresis NO (Hno),<br>Hysteresis NC (Hnc)<br>Window NO (Fno),<br>Window NC (Fnc)                 | ou1        |                                    |
| Functions switching output 2                                                                           | Hysteresis, closer (Hno)        | Hysteresis NO (Hno),<br>Hysteresis NC (Hnc)<br>Window NO (Fno),<br>Window NC (Fnc)<br>Device ready | ou2        |                                    |

## Parameterization of switching points

The switching points, delay times and output functions can be parameterised quickly and easily with the Sensor Master Communicator (SMC) application, which is available for Windows (PC) and Android smartphone. The Android app is available in the Google Play Store and the Windows app is available in the Microsoft Store. The apps are free of charge.



- Data sheet SMI Sensor Master Interface: [www.trafag.com/H72618](http://www.trafag.com/H72618)
- Instruction for the Sensor Master Communicator App (SMC) and the Sensor Master Interface (SMI): [www.trafag.com/H73618](http://www.trafag.com/H73618)



| Specifications               |                                                                          |                                                                                                                                                                                                                                     |
|------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical data              | Output / supply voltage                                                  | 4 ... 20 mA: 24 (9...32) VDC<br>0 ... 6 VDC ranges: 24 (9...32) VDC<br>0 ... 10.1 VDC ranges: 24 (15...32) VDC<br>0.5 ... 4.5 VDC ratiom.,<br>10 ... 90% $U_{supply}$ : $5 \pm 0.25$ VDC<br>1 or 2 PNP transistors: 24 (9...32) VDC |
|                              | Rise time                                                                | Typ. 1 ms / 10 ... 90 % nominal pressure                                                                                                                                                                                            |
|                              | Power-on delay time pressure transmitters                                | 100 ms                                                                                                                                                                                                                              |
|                              | Power-on delay time pressure switches                                    | 50 ms + switching delay time                                                                                                                                                                                                        |
|                              | Inverse-polarity protection, short-circuit strength @ 25°C during 5 min. | 4...20 mA: to $U_s = 32$ VDC<br>0 ... 6 VDC ranges, 0 ... 10.1 VDC ranges: bis $U_s = 28$ VDC<br>0.5...4.5 VDC ratiometric: to $U_s = 14$ VDC<br>1 or 2 PNP transistors: to $U_s = 32$ VDC                                          |
| Environmental conditions     | Media temperature                                                        | -40°C ... +125°C                                                                                                                                                                                                                    |
|                              | Ambient temperature                                                      | max. -40°C ... + 125°C<br>(UL-rated ambient temperature: -20°C ... +80°C)<br>details see section Electrical Connection                                                                                                              |
|                              | Protection                                                               | IP20, IP40, IP65, IP67, IP68<br>details see section Electrical Connection                                                                                                                                                           |
|                              | Humidity                                                                 | Max. 95 % relative                                                                                                                                                                                                                  |
|                              | Vibration                                                                | 15 g RMS (20...2000 Hz) (EN60068-2-64)<br>25 g sin (80...2000 Hz), 1 oct./min, (1x @ 25°C)<br>(EN60068-2-6)                                                                                                                         |
|                              | Shock                                                                    | 50 g / 11 ms<br>100 g / 6 ms Male electrical plug M12x1<br>(EN60068-2-27) <sup>2)</sup>                                                                                                                                             |
| EMC protection <sup>1)</sup> | Emission                                                                 | EN/IEC 61000-6-3                                                                                                                                                                                                                    |
|                              | Immunity                                                                 | EN/IEC 61000-6-2                                                                                                                                                                                                                    |
| Mechanical data              | Sensor (wetted parts)                                                    | 1.4542 (AISI630)                                                                                                                                                                                                                    |
|                              | Pressure connection (wetted parts)                                       | 1.4542 (AISI630)                                                                                                                                                                                                                    |
|                              | Housing                                                                  | 1.4301 (AISI304)                                                                                                                                                                                                                    |
|                              | Sealing                                                                  | FPM/EPDM/NBR                                                                                                                                                                                                                        |
|                              | Male electrical connector                                                | See ordering information                                                                                                                                                                                                            |
|                              | Weight                                                                   | appr. 50 g                                                                                                                                                                                                                          |
|                              | Mounting torque                                                          | 25 Nm                                                                                                                                                                                                                               |

<sup>1)</sup> Electrical connection J4 not EMC tested

<sup>2)</sup> For electrical connections 32 and 35



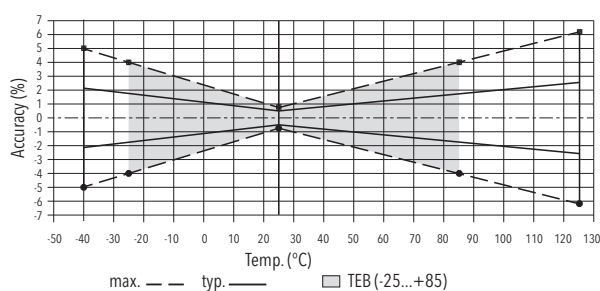
## Analogue output

|           |                                          |               |        |
|-----------|------------------------------------------|---------------|--------|
| Accuracy  | TEB @ -25 ... +85°C                      | [% FS typ.]   | ± 1.75 |
|           | Accuracy @ +25°C                         | [% FS typ.]   | ± 0.5  |
|           | NLH @ +25°C (BSL)                        | [% FS typ.]   | ± 0.2  |
|           | TC zero point and span                   | [% FS/K typ.] | ± 0.03 |
|           | Long term stability 1 year @ +25°C       | [% FS typ.]   | ± 0.1  |
| Rise time | Typ. 1 ms / 10 ... 90 % nominal pressure |               |        |

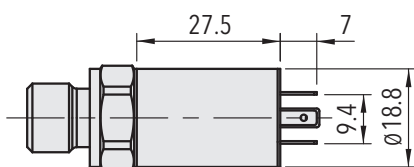
## Switching output

|                               |                                                              |                                 |                                           |
|-------------------------------|--------------------------------------------------------------|---------------------------------|-------------------------------------------|
| Accuracy                      | TEB @ -25 ... +85°C                                          | [% FS typ.]                     | ± 1.75                                    |
|                               | Accuracy @ +25°C                                             | [% FS typ.]                     | ± 0.5                                     |
|                               | Long term stability 1 year @ +25°C                           | [% FS typ.]                     | ± 0.1                                     |
| Setting range of switchpoints | 1 ... 99 % FS                                                |                                 |                                           |
| Distance switch point         | ≥ 1.0 % FS                                                   |                                 |                                           |
| Switch point > reset point    | Switchpoint > reset point                                    |                                 |                                           |
| Switching resistance          | ≤ 3 Ω                                                        |                                 |                                           |
| Output function               | Hysteresis, Window; normally closed (NO), normally open (NC) |                                 |                                           |
| Switching current             | -40°C ... +85°C                                              | (Ambient and media temperature) | ≤ 400 mA, total of both switching outputs |
|                               | +85°C ... +125°C                                             | (Ambient and media temperature) | ≤ 200 mA, total of both switching outputs |
| Current limiting              | integrated                                                   |                                 |                                           |
| Life time                     | > 100 x 10 <sup>6</sup> cycles                               |                                 |                                           |
| Delay time                    | 0; approx. 2 <sup>x</sup> [ms], x = 3, 4 ... 16              |                                 |                                           |
| Switching frequency           | max. 60 Hz (at switching delay time = 0)                     |                                 |                                           |

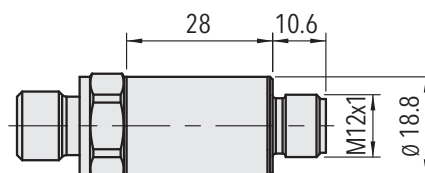
## Measuring accuracy



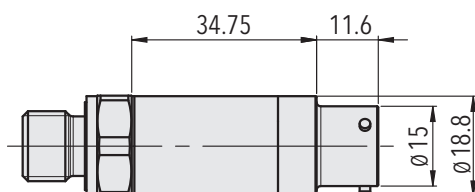
## Dimensions



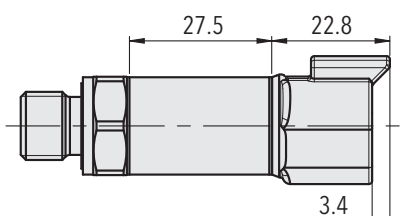
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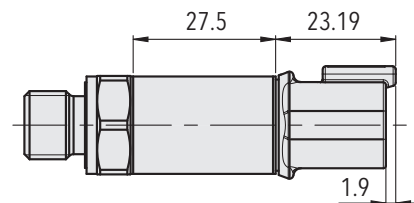
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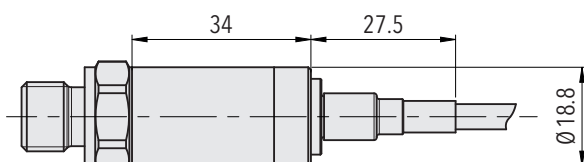
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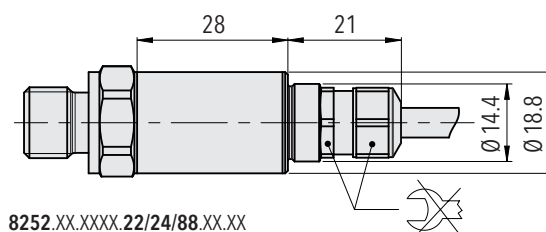
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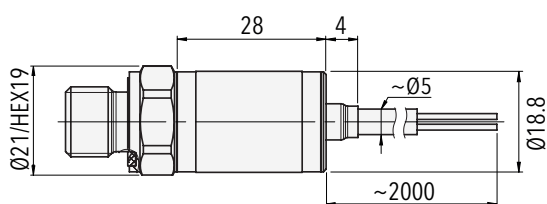
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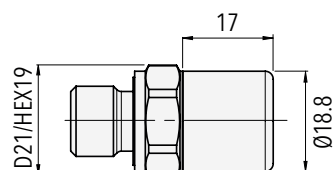
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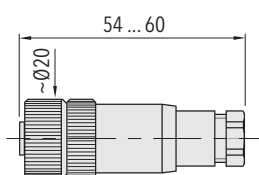
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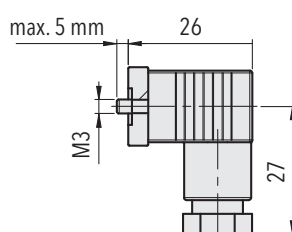
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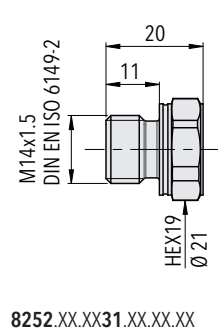
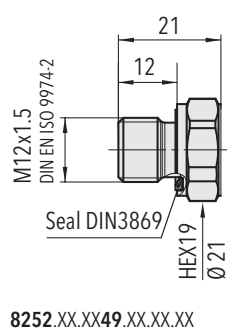
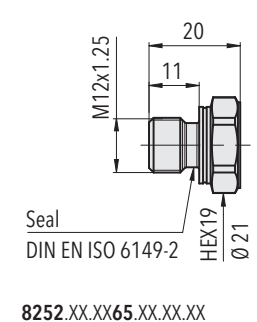
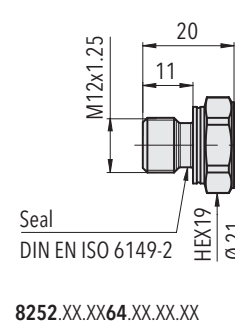
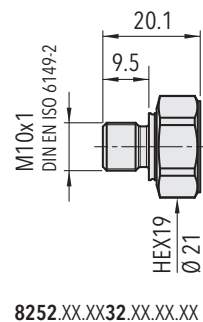
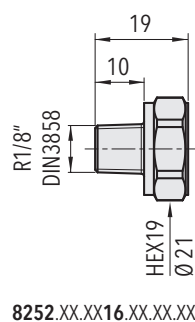
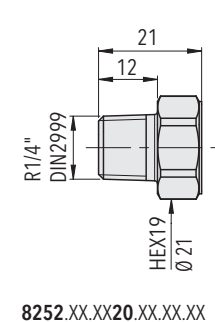
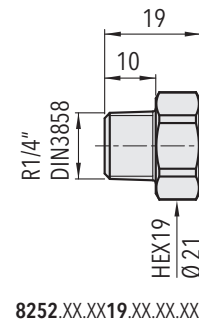
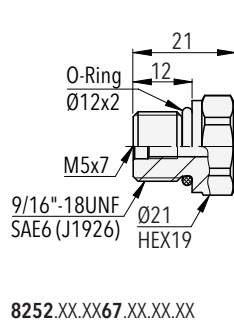
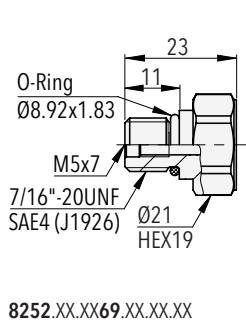
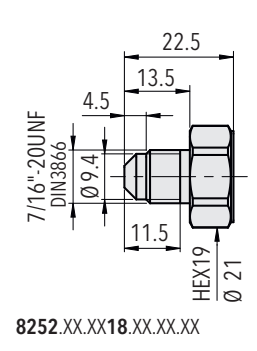
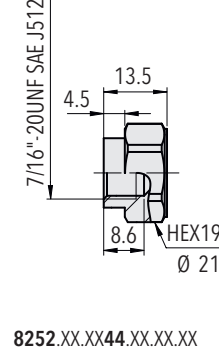
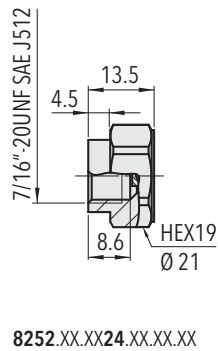
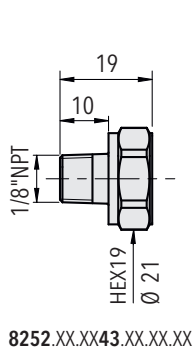
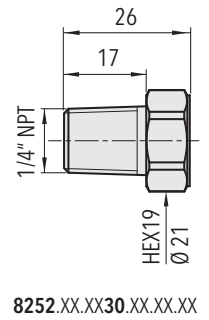
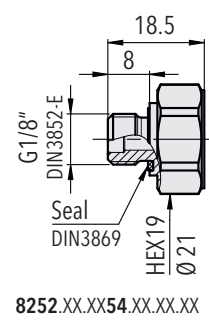
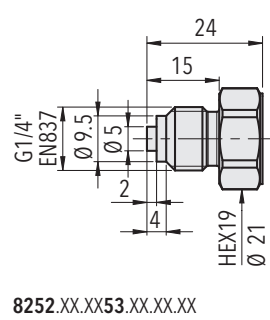
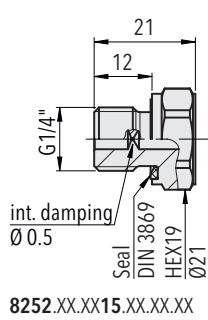
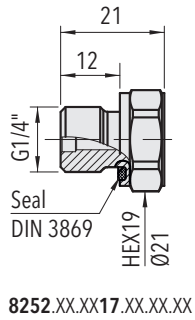


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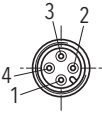
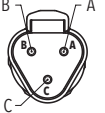
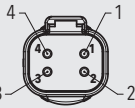
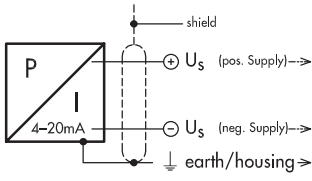
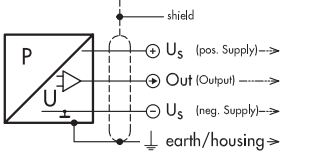


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## Dimensions



## Electrical connection

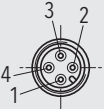
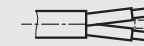
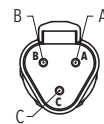
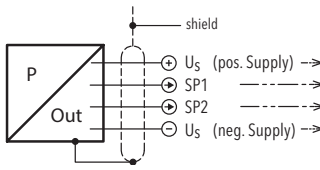
|                              |                                                                                                                                                       | Protection / electrical connection                                                |           |           |                                                                                   |           |           |           |                                                                                    |           |           |           |                                                                                     |     |                                                                                     |           |                                                                                     |           |   |  |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------|-----------|-----------------------------------------------------------------------------------|-----------|-----------|-----------|------------------------------------------------------------------------------------|-----------|-----------|-----------|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|-----------|---|--|
|                              |                                                                                                                                                       | IP65 <sup>1) 2)</sup>                                                             |           |           | IP67 <sup>1) 2)</sup>                                                             |           |           |           |                                                                                    |           |           |           | IP67, IP68 <sup>1) 3)</sup>                                                         |     | IP67, IP68 <sup>1) 3)</sup>                                                         |           |                                                                                     |           |   |  |
|                              |                                                                                                                                                       | Industrial standard<br>Contact distance<br>9.4 mm                                 |           |           | M12x1                                                                             |           |           |           |                                                                                    |           |           |           | MIL-C<br>26482                                                                      |     | DT04-3P<br>3-pole                                                                   |           | DT04-4P<br>4-pole                                                                   |           |   |  |
|                              |                                                                                                                                                       | <b>01</b>                                                                         |           |           | <b>32</b>                                                                         |           |           |           | <b>35</b>                                                                          |           |           |           | <b>02</b>                                                                           |     | <b>D3</b>                                                                           |           | <b>D4</b>                                                                           |           |   |  |
|                              |                                                                                                                                                       |  |           |           |  |           |           |           |  |           |           |           |  |     |  |           |  |           |   |  |
| Ambient temperature          |                                                                                                                                                       | -40°C ... +80°C                                                                   |           |           | -40°C ... +125°C                                                                  |           |           |           |                                                                                    |           |           |           | -40°C ... +125°C                                                                    |     |                                                                                     |           |                                                                                     |           |   |  |
| UL-rated ambient temperature |                                                                                                                                                       | -20°C ... +80°C                                                                   |           |           | -20°C ... +80°C                                                                   |           |           |           |                                                                                    |           |           |           | -20°C ... +80°C                                                                     |     |                                                                                     |           |                                                                                     |           |   |  |
| Output signal                | <br><b>8252.XX.XXXX.XX.19</b>                                        |                                                                                   | <b>90</b> | <b>92</b> |                                                                                   | <b>E1</b> | <b>E6</b> | <b>F4</b> | <b>F5</b>                                                                          | <b>G2</b> | <b>G5</b> | <b>G8</b> |                                                                                     |     |                                                                                     | <b>F0</b> |                                                                                     | <b>G3</b> |   |  |
|                              |                                                                                                                                                       | 2                                                                                 | 2         | 1         | 1                                                                                 | 1         | 1         | 1         | 1                                                                                  | 1         | 1         | 3         | 4                                                                                   | A   | A                                                                                   | A         | 2                                                                                   | 2         |   |  |
|                              |                                                                                                                                                       | 1                                                                                 | 4         | 2         | 3                                                                                 | 2         | 4         | 2         | 3                                                                                  | 2/3       | 4         | 2         | 1                                                                                   | B   | B                                                                                   | C         | 1                                                                                   | 3         |   |  |
|                              |                                                                                                                                                       | 4                                                                                 | 3         | 4         | 4                                                                                 | 4         | 2         |           |                                                                                    | 4         | 4         | 4         | 5                                                                                   | E   |                                                                                     |           | 3                                                                                   |           |   |  |
|                              |                                                                                                                                                       |                                                                                   |           |           |                                                                                   |           |           |           |                                                                                    |           |           |           |                                                                                     |     |                                                                                     |           |                                                                                     |           |   |  |
|                              | <br><b>8252.XX.XXXX.XX.13/14/16/17/20/22/<br/>23/24/25/26/28/29</b> |                                                                                   | <b>91</b> | <b>E3</b> | <b>E9</b>                                                                         |           | <b>95</b> | <b>96</b> | <b>E2</b>                                                                          | <b>F6</b> | <b>F7</b> | <b>G1</b> |                                                                                     |     | <b>F3</b>                                                                           |           | <b>F1</b>                                                                           | <b>G4</b> |   |  |
|                              |                                                                                                                                                       | 1                                                                                 | 2         | 3         | 1                                                                                 | 1         | 1         | 1         | 1                                                                                  | 1         | 1         | 1         | 2                                                                                   | A   | A                                                                                   | A         | A                                                                                   | 2         | 2 |  |
|                              |                                                                                                                                                       | 2                                                                                 | 1         | 1         | 3                                                                                 | 2         | 3         | 4         | 3                                                                                  | 2         | 2         | 4         | 4                                                                                   | B   | C                                                                                   | C         | B                                                                                   | 4         | 1 |  |
|                              |                                                                                                                                                       | 3                                                                                 | 4         | 2         | 2                                                                                 | 3         | 4         | 3         | 2                                                                                  | 4         | 3         | 3         | 3                                                                                   | C/D | B/D                                                                                 | B         | C                                                                                   | 1         | 3 |  |
|                              |                                                                                                                                                       | 4                                                                                 | 3         | 4         | 4                                                                                 | 4         | 2         | 2         | 4                                                                                  | 3         |           |           | 5                                                                                   | E   | E                                                                                   |           |                                                                                     | 3         |   |  |

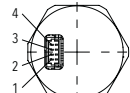
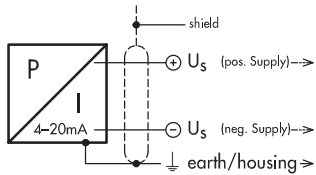
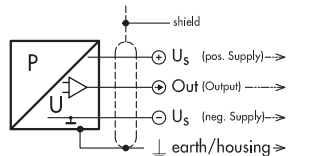
<sup>1)</sup> Nur mit vorschriftsmässig montierter Kabeldose gültig

<sup>2)</sup> Entlüftung über Stecker/Kabel

<sup>3)</sup> IP68, 100 mbar, 4h

## Electrical connection

| Protection / electrical connection                                                |                                                                                   |                                                                                   |                  |                                                                                    |                              |                                                                                     |                              |                                                                                     |                            |                                                                                     |                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------|-----------------------------|
| IP67 <sup>1) 2)</sup>                                                             |                                                                                   | IP67, IP68 <sup>2) 3)</sup>                                                       |                  | IP67, IP68 <sup>2) 3)</sup>                                                        |                              | IP67 <sup>2)</sup>                                                                  |                              | IP67, IP68 <sup>2) 3)</sup>                                                         |                            | IP67, IP68 <sup>1) 4)</sup>                                                         |                             |
| M12x1<br>4-pole<br><b>32</b>                                                      |                                                                                   | Cable<br><b>22</b>                                                                |                  | Cable<br><b>24</b>                                                                 |                              | Cable<br><b>08</b>                                                                  |                              | Cable<br><b>88</b>                                                                  |                            | DT04-3P<br>3-pole<br><b>D3</b>                                                      |                             |
|  |                                                                                   |  |                  |  |                              |  |                              |  |                            |  |                             |
| Ambient temperature                                                               |                                                                                   | -40°C ... +125°C                                                                  |                  | -30°C ... +80°C                                                                    |                              | -40°C ... +70°C                                                                     |                              | -40°C ... +125°C                                                                    |                            | -40°C ... +100°C                                                                    |                             |
| UL-rated ambient temperature                                                      |                                                                                   | -20°C ... +80°C                                                                   |                  | -20°C ... +80°C                                                                    |                              | -20°C ... +70°C                                                                     |                              | -20°C ... +80°C                                                                     |                            | -20°C ... +80°C                                                                     |                             |
| Output signal                                                                     |  | PS                                                                                | T1               | PS                                                                                 | T1                           | PS                                                                                  | T1                           | PS                                                                                  | T1                         | PS                                                                                  | T1                          |
|                                                                                   |                                                                                   | 1<br>4<br>2<br>3                                                                  | 1<br>4<br>-<br>3 | white<br>green<br>yellow<br>brown                                                  | white<br>green<br>-<br>brown | white<br>green<br>yellow<br>brown                                                   | white<br>green<br>-<br>brown | red<br>white<br>green<br>black                                                      | red<br>white<br>-<br>black | brown<br>blue<br>yellow / green<br>black                                            | brown<br>blue<br>-<br>black |
|                                                                                   |                                                                                   | <b>8252.XX.XXXX.XX.PS/T1</b>                                                      |                  |                                                                                    |                              |                                                                                     |                              |                                                                                     |                            |                                                                                     |                             |

|                              |                                                                                     | Protection / electrical connection                                                  |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                              |                                                                                     | IP67, IP68 <sup>2) 3)</sup>                                                         | IP67, IP68 <sup>2) 3)</sup>                                                         | IP67 <sup>2)</sup>                                                                   | IP67, IP68 <sup>2) 3)</sup>                                                           | IP40                                                                                  | IP20                                                                                  |
|                              |                                                                                     | Cable<br><b>22</b>                                                                  | Cable<br><b>24</b>                                                                  | Cable<br><b>08</b>                                                                   | Cable<br><b>88</b>                                                                    | Cable<br><b>A1</b>                                                                    | JST SH Series<br><b>J4</b>                                                            |
|                              |                                                                                     |  |  |  |  |  |  |
| Ambient temperature          |                                                                                     | -30°C ... +80°C                                                                     | -40°C ... +70°C                                                                     | -40°C ... +125°C                                                                     | -40°C ... +100°C                                                                      | -30°C ... +80°C                                                                       | -40°C ... +125°C                                                                      |
| UL-rated ambient temperature |                                                                                     | -20°C ... +80°C                                                                     | -20°C ... +70°C                                                                     | -20°C ... +80°C                                                                      | -20°C ... +80°C                                                                       | -20°C ... +80°C                                                                       | -20°C ... +80°C                                                                       |
| Output signal                |  | white                                                                               | white                                                                               | red                                                                                  | brown                                                                                 | brown                                                                                 | 1                                                                                     |
|                              |                                                                                     | brown<br>yellow                                                                     | brown<br>yellow                                                                     | black<br>green                                                                       | black<br>yellow / green                                                               | white<br>yellow                                                                       | 2<br>4                                                                                |
|                              | <b>8252.XX.XXXX.XX.19</b>                                                           |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |
| Output signal                |  | white                                                                               | white                                                                               | red                                                                                  | brown                                                                                 | brown                                                                                 | 1                                                                                     |
|                              |                                                                                     | green<br>brown<br>yellow                                                            | green<br>brown<br>yellow                                                            | white<br>black<br>green                                                              | blue<br>black<br>yellow / green                                                       | green<br>white<br>yellow                                                              | 3<br>2<br>4                                                                           |
|                              | <b>8252.XX.XXXX.XX.13/14/16/17/20/22/<br/>23/24/25/26/28/29</b>                     |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |                                                                                       |

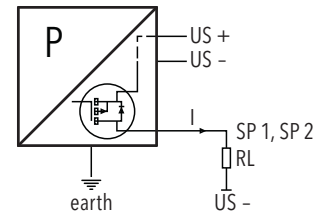
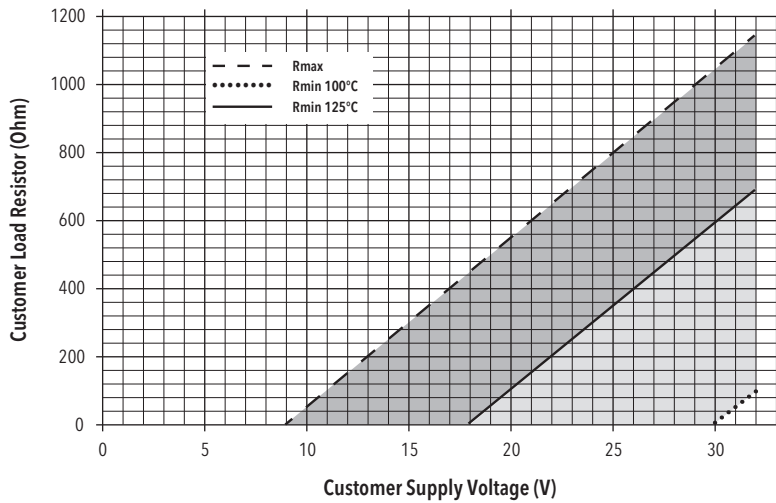
<sup>1)</sup> Provided female electrical plug is mounted according to instructions

<sup>2)</sup> Ventilation via male electric plug/cable end

<sup>3)</sup> IP68, 20 bar, 30 min.

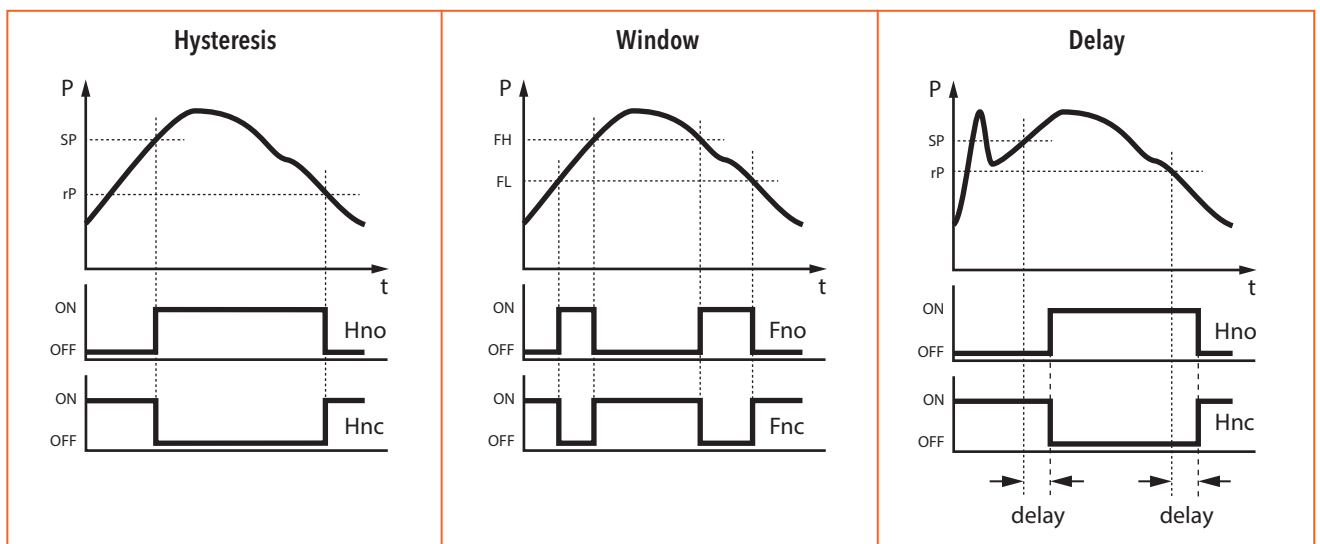
<sup>4)</sup> IP68, 100 mbar, 4h

4...20mA: min./max resistor vs. supply voltage @ Pmax = 100%



Connection of loads to switch contacts

## Functions switching output



### Additional information

#### Documents

Data sheet

[www.trafag.com/H72303](http://www.trafag.com/H72303)

Instructions

[www.trafag.com/H73303](http://www.trafag.com/H73303)

Flyer

[www.trafag.com/H70666](http://www.trafag.com/H70666)