

## Probe

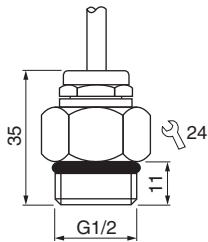

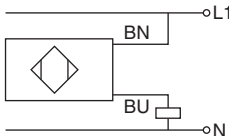
### Series TGM

For the monitoring of temperature thresholds

Sensor tip pressure resistant up to 30 bar

IP 68 / IP 69K



| Design                       | G1/2  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
|------------------------------|---|--|-----------------------|--------|--------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|--------------|---------|--------------|
| Dimensions                   |    |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Sensing temperature [°C]     | +60 °C...100 °C (5 °C step)   |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Output                       |    |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| ID-No.                       | P....   |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Type                         | TGM 050-TSxxx   |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Tolerance [K]                | ±5  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Reset                        | 30 ±15 K  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| temperature range [K]        | below temperature threshold   |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Medium temperature [°C]      | -10...+120  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Temperature range cable [°C] | -10...+80   |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Switching voltage [V]        | max. 230 AC   |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Switching current [A]        | max. 2,5 cos φ = 1<br>max. 1,6 cos φ = 0,6  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Protection [EN 60529]        | IP 67   |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Housing                      | IP 68 / IP 69K  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Sensor tip                   | IP 68 / IP 69K  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Housing material             | AISI 316 Ti, Br-Ni  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Compressive strength [bar]   | 30  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Sealing                      | O-Ring, 16x2.5 NBR  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| Connection                   | 2 m PVC-cable 2x0.5 mm <sup>2</sup>   |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
|                              | <table border="0"> <thead> <tr> <th>Temperature threshold</th> <th>ID-No.</th> </tr> </thead> <tbody> <tr> <td>60 °C:</td> <td>TS060 P71033</td> </tr> <tr> <td>65 °C:</td> <td>TS065 P71034</td> </tr> <tr> <td>70 °C:</td> <td>TS070 P71035</td> </tr> <tr> <td>75 °C:</td> <td>TS075 P71036</td> </tr> <tr> <td>80 °C:</td> <td>TS080 P71037</td> </tr> <tr> <td>85 °C:</td> <td>TS085 P71038</td> </tr> <tr> <td>90 °C:</td> <td>TS090 P71039</td> </tr> <tr> <td>95 °C:</td> <td>TS095 P71040</td> </tr> <tr> <td>100 °C:</td> <td>TS100 P71041</td> </tr> </tbody> </table> |  | Temperature threshold | ID-No. | 60 °C: | TS060 P71033 | 65 °C: | TS065 P71034 | 70 °C: | TS070 P71035 | 75 °C: | TS075 P71036 | 80 °C: | TS080 P71037 | 85 °C: | TS085 P71038 | 90 °C: | TS090 P71039 | 95 °C: | TS095 P71040 | 100 °C: | TS100 P71041 |
| Temperature threshold        | ID-No.  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| 60 °C:                       | TS060 P71033  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| 65 °C:                       | TS065 P71034  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| 70 °C:                       | TS070 P71035  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| 75 °C:                       | TS075 P71036  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| 80 °C:                       | TS080 P71037  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| 85 °C:                       | TS085 P71038  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| 90 °C:                       | TS090 P71039  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| 95 °C:                       | TS095 P71040  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
| 100 °C:                      | TS100 P71041  |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |
|                              |   |  |                       |        |        |              |        |              |        |              |        |              |        |              |        |              |        |              |        |              |         |              |