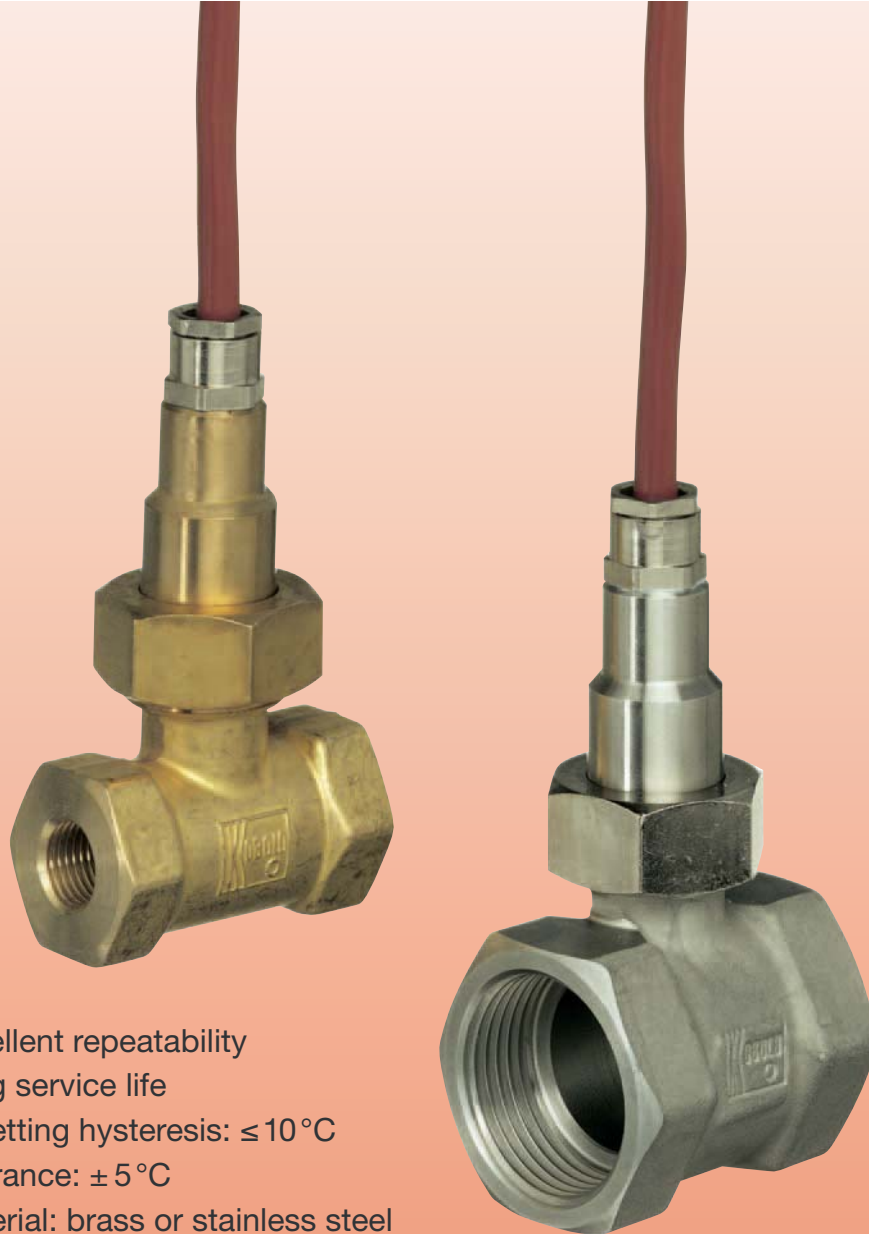




Thermal Reed Switches for Temperature Monitoring and Setpoint Control



measuring
•
monitoring
•
analysing



- Excellent repeatability
- Long service life
- Resetting hysteresis: $\leq 10^{\circ}\text{C}$
- Tolerance: $\pm 5^{\circ}\text{C}$
- Material: brass or stainless steel
- Connection: G 1/4 to G 1
- Switch points: 10°C to 120°C



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Model:
TRS



Description

Thermal reed switches are used for temperature monitoring and control. They are characterised by their long service life and operational reliability.

A particular advantage is their excellent repeatability, as thermal reed switches are practically insensitive to the service environment. In contrast to bimetal thermostats, for example, the switch point is not affected by the load current.

The thermal reed switches of type TRS are supplied in a robust housing made of brass or stainless steel with G 1/4 to G 1 internal thread on both sides and with a 1.5 m silicone sheathed cable. They are thus also suitable for service in rough conditions.

The temperature contacts have a fixed switch point in intervals of 5°C over the range 10°C to 50°C, and in intervals of 10°C over the range 50°C to 120°C and are designed as N/C contacts.

Application

The thermal reed switches of type TRS are suited for universal use. They can be used in applications where temperature monitoring or control is required.

Technical Details

- Material:

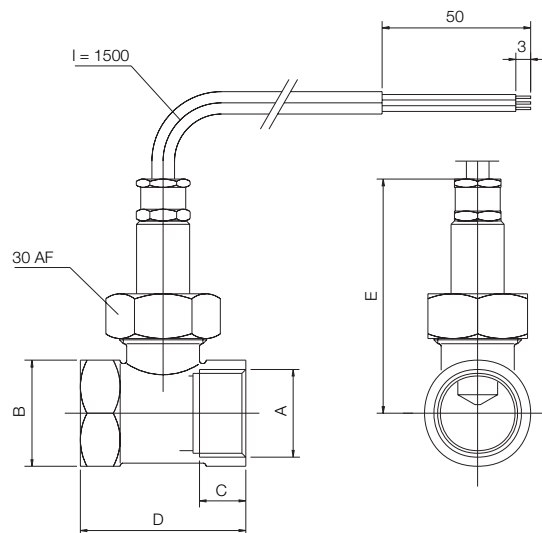
 - Housing: brass or stainless steel
 - Seal: FPM
 - Cable: 1.5 m silicone sheathed cable, (longer cable upon request)

- Pressure: PN16 MS version
PN 25 VA version
- Allowed medium temperature: -40°C +120°C
- Tolerance: ±5°C
- Resetting hysteresis: ≤10°C
- Contact: N/C contact with rising temperature
- Contact loading: max. 10 W/12 VA
- DC voltage: max. 100 V
- AC voltage: max. 120 V
- Permanent current: max. 1 A
- Make current: max. 0.5 A

We recommend service contact protection relays for switching with higher currents and for mains operation 230 V (see brochure Z2).

Dimensions

| A | B [mm] | C [mm] | D [mm] | E max. [mm] |
|-------|--------|--------|--------|-------------|
| G 1/4 | 27 | 10 | 50 | 77 |
| G 3/8 | 27 | 10 | 50 | 77 |
| G 1/2 | 27 | 10 | 50 | 77 |
| G 3/4 | 32 | 15 | 52 | 78 |
| G 1 | 39 | 15 | 56 | 81 |



Order Details (Example: TRS-1108 010)

| Connection female thread | Housing material | | Switch point (N/C contact with rising temperature) | |
|--------------------------|------------------|-----------------|--|----------------|
| | Brass | Stainless steel | | |
| G 1/4 | TRS-1108.. | TRS-1208.. | ...010 = 10°C | ...060 = 60°C |
| G 3/8 | TRS-1110.. | TRS-1210.. | ...015 = 15°C | ...070 = 70°C |
| G 1/2 | TRS-1115.. | TRS-1215.. | ...020 = 20°C | ...080 = 80°C |
| G 3/4 | TRS-1120.. | TRS-1220.. | ...025 = 25°C | ...100 = 100°C |
| G 1 | TRS-1125.. | TRS-1225.. | ...030 = 30°C | ...090 = 90°C |
| | | | ...040 = 40°C | ...110 = 110°C |
| | | | ...045 = 45°C | ...120 = 120°C |
| | | | ...050 = 50°C | |