

temperature measurement

resistance thermometer/temperature switch WTR 630

features

- resistance thermometer and temperature switch with screw-in thread, without neck tube
- fast response time without reduced measuring peak
- electrical connection with plug M12 5-pole
(connections see accessories)
- output switching contact and RS485 Mod-Bus
- specials on request

technical specifications

- | | |
|-----------------------------|--|
| - protection fitting | stainless steel 1.4404 (316L) resp. 1.4571 (V4A) |
| - diameter | at Dallas Chip internal 9 x 1mm
at PT100 Chip internal 6 x 1 mm |
| - process connection thread | smooth protection tube, adaptable via compression fitting |
| - temperature range | -55°C to +125°C (with Dallas Chip internal)
-50°C to +150°C (with PT100 internal)
(extended ranges on request) |
| - power supply | 8...30VDC |
| - output | switching output PNP |
| - max. switching current | 60mA |
| - interface | RS485, Mod Bus protocol for parameterization
as well as reading out the measured value and communication |

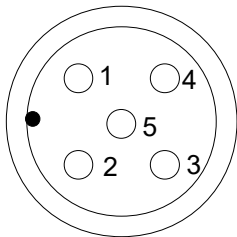


WTR 630-9-A-DA-SA

product benefits

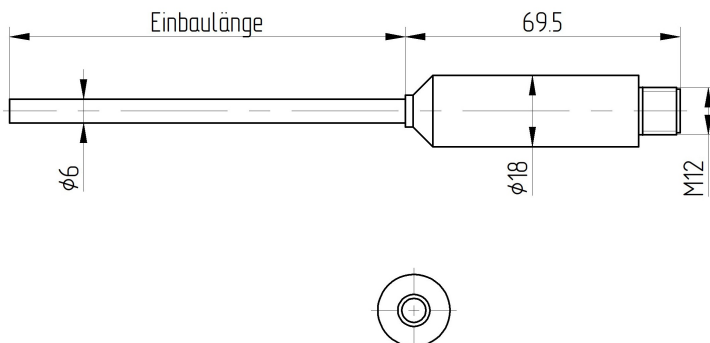
- integrated Mod-Bus interface for coupling to a PLC
- freely parameterizable switching point
- 2-point control integrated via adjustable hysteresis
- compact, cost-optimized design
- optimal use of space
- low attack surface for harsh environmental factors
- quick and easy electrical connection via M12 connector
- digital temperature output: Several sensors can be operated in parallel at one digital input of an evaluation
- installation length flexibly adjustable with compression fitting
- hygienic adaptation possible with bullet clamp boltings

pin assignment



- 1: + power supply 8...30VDC
- 2: switching output PNP
- 3: - power supply
- 4: interface RS485 (A)
- 5: interface RS485 (B)

technical drawing



temperature measurement

order-code WTR 630...

order example: WTR 630-9-A-DA-SA

kind of connection

-9 compact construction, directly with M12 plug 5 pole, protection class IP69K

mounting length

-A 50 mm mounting length
 -B 100 mm mounting length
 -C 150 mm mounting length
 -D 200 mm mounting length
 -E 250 mm mounting length
 -F 300 mm mounting length
 -K mounting length on customer`s request

sensor type internal, temperature range and protection tube diameter

-DA 1 x Dallas chip temperature range -55°C...+125°C, protection tube diameter 9mm
 -PT100 1 x PT100 temperature range -50°C...+150°C, protection tube diameter 6mm
 -KX other sensor types or temperature ranges on customer`s request

output

-SA switching output and interface RS485 (Mod-Bus protocol)

accessories

clamp screw fittings

-99-000197 KVS6E-1/2" clamp screw fitting
 -99-000199 KVS6T-1/2" clamp screw fitting with screw-in thread, for 6mm sensor, clamping ring made of Teflon, material 1.4571
 -99-000512 KVS6E-1/4" clamp screw fitting
 -99-000198 KVS6T-1/4" clamp screw fitting
 -99-000196 KKVS6P bullet clamp bolting, for 6mm tube, PEEK sealing ring, material 1.4404

immersion pockets

-99-000456 THVA, 100mm, in G1/2", dimension 9x1, diameter immersion pocket 9mm, inner diameter 7mm, material VA, with M4 screw in the hexagon
 -99-001938 THVA-KVS 100mm, in G1/2", sleeve dimension 9x1, dimension immersion pocket 9mm, inner diameter 7mm, with clamp screw fitting for 6mm probe, with PTFE-clamping ring
 -99-002871 ESTHK, 50mm, welding immersion pocket, with clamp screw fitting PEEK, diameter sleeve 9x1, material stainless steel 1.4404

M12-connection wires

-113218 connection cable M12 angled, 5-pole, 5m PUR cable, black
 -110602 connection cable M12 straight, 5-pole, 5m PUR cable, black