

Characteristics

1 - BIMETAL - THERMOSTAT - LIMITER - CONTROLLER



- Switching temperature: 5...180 °C

- Output: 1 contact (normally closed / open)

- Type of contact: creep action without hysteresis

- Accuracy: ±5 K, Option: ±3 K

- Contact rating: 12 VDC 8 A / 24 VDC 4 A / 240 VAC 4 A

- Temperature medium: maximum 180 °C - Fitting / Nominal length: 27...1000 mm

- Process connection: several options possible - Electrical connection: several options possible - Material: stainless steel, PBT GF30

- Protection: at least IP65

Technical data

Input

0...180 °C Temperature medium:

5...180 °C, in steps of 1 °C (factory fixed) Switching temperature:

Ausgang

Contact: Type: 1x normally closed

1x normally open

Character: creep action without hysteresis

12 VDC, 6 A, 5000 cycles (resistive load) Ratings:

24 VDC, 3 A, 5000 cycles (resistive load) 120 VAC, 6 A, 100000 cycles (resistive load) 120 VAC, 5 A (induktive load)

240 VAC, 4 A, 100000 cycles (resistive load) 240 VAC, 2,5 A, 18 cycles (induktive load)

gold diffused contact Contact area:

Action: bimetallic release

Accuracy

Switching temperature: ±5 K (standard)

±3 K (option)

Supply

Current, voltage: without

Ambient conditions

Temperature: Operation: 0...+85 °C

> Medium: 0...+180 °C Storage: 0...+100 °C

Condensation: uncritically

Applications

For use as temperature limiter in machines or devices (e. g. switching-off, switch on of cooling) as possible for mobile hydraulics, motors or compressors. Advatage: The switch is self-operated.







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Modular Temperature Switch

Page-1

Technical data (continued)

Mechanics

Dimensions: see below

Process connection: 3/8", 1/2", 3/4", 1", 3/8NPT, 1/2NPT, without thread

Thermowell: Ø9x0,5 mm

Material: Thermowell: stainless steel Body of enclosure: stainless steel

Adapter piece: PBT GF30 (electrical connection)

Switching contact: silver, gold diffused

Vibration protection: body of enclosure is potted

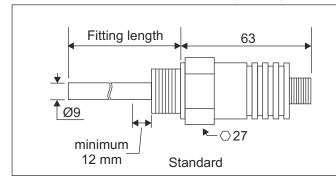
Protection: Enclosure: at least IP 65 (with plugged electrical connection)

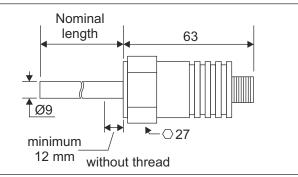
Electrical connection: see page 3

System pressure: up to maximum 100 bar (depending on the medium, temperature, thermowell design)
Vibration resistance: up to 10 g (depending on the mounting situation, medium, temperature, insertion length)

Shock resistance: up to 100 g (depending on the mounting situation, medium, temperature)

Diemnsions connection M12 (in mm)





■ Electrical connection

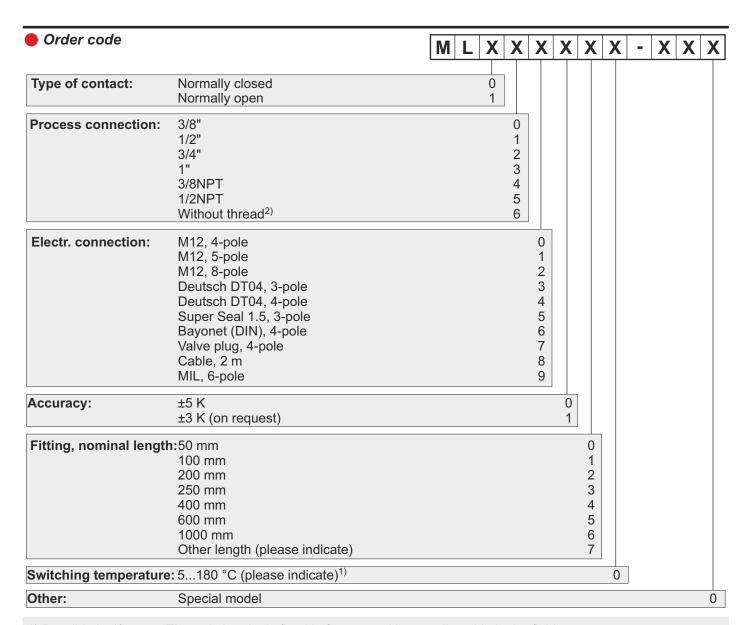
M12x1	Super Seal	Deutsch	Deutsch	Bayonet	Valve	MIL	Cable
4-pole 5-pole 8-pole	3-pole	3-pole	4-pole	4-pole	4-pole	6-pole	4-pole

Maximum ratings of plugs/cable

M12x1, 4-pole	250 V, 4 A	M12x1, 5-pole	60 V, 4 A
M12x1, 8-pole	30 V, 2 A	Super Seal 1.5, 3-pole	14 A
Deutsch DT04, 3-pole	13 A	Deutsch DT04, 4-pole	13 A
Bayonet DIN, 4-pole	300 V, 5 A	Valve plug type A, 4-pole	250 V, 10 A
MIL, 6-pole	600 V, 7,5 A	Cable, 4-pole	250 V, 6 A

Contact assignment

M12x1	Super Seal	Deutsch	Deutsch	Bayonet	Valve	MIL	Cable
1 3	1 3	A B	1 3	1 2	1 2	A C	wh gn bn ye
4-pole 5-pole 8-pole	3-pole	3-pole	4-pole	4-pole	4-pole	6-pole	4-pole



- 1) Possible in 1° steps. The switch point is fixed in factory and is not adjustable in the field.
- 2) Without thread = Dip-in temperature switch