

Mini temperature switch, stainless steel switch enclosure

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Applications

- Temperature monitoring and control of processes
- Safety-critical applications in general process instrumentation, especially in the chemical and petrochemical industries, oil and gas industries, power generation incl. nuclear power plants, water/wastewater industries, mining
- For measuring points with limited space, e.g. control panels

Special features

- No power supply needed for switching of electrical loads
- Setting ranges from -15 ... +20°C to 180 ... +250°C
- Intrinsic safety Ex ia available
- 1 set point, SPDT, high switching power up to AC 250 V, 5 A
- Direct mounting or remote mounting with capillary ≤ 10 m



Order numbers

Case	stainless steel 316L	
Sensor	direct mounting	remote mounting with capillary, length 2 m
Process connection	1/2 NPT male	
Electrical connection	1/2-14 NPT-M, with 1,5m cable	
Electric contacts	1 x SPDT, silver contact, hermetically sealed	
Setting range		
-15 ... +20 °C	14173739	14173740
5 ... 70 °C	14173741	14174187
55 ... 140°C	14174188	14174189
130 ... 190°C	14174190	14174194
180 ... 250°C	14174215	14174216

Legend: available from stock in Germany available after production **** not available

Quick order code (for further details see data sheet TV 31.70)

Field no.	Code	Version
sensor version		
①	B	direct mounting
	C	remote mounting with capillary, length 2 m
	Q	remote mounting with capillary, length 5 m
	R	remote mounting with capillary, length 10 m
contact version		
②	E	1xSPDT, silver contact, hermetically sealed
	J	1xSPDT, gold-plated contact, hermetically sealed
setting range		
③	CCA	-15 ... +20 °C, working range -40 ... +50 °C, proof temperature +70 °C
	CCB	5 ... 70 °C, working range -40 ... +95 °C, proof temperature +120 °C
	CCC	55 ... 140 °C, working range -40 ... +160 °C, proof temperature +190 °C
	CCD	130 ... 190 °C, working range -40 ... +215 °C, proof temperature +230 °C
	CCE	180 ... 250 °C, working range -40 ... +300 °C, proof temperature +330 °C
process connection		
④	E	1/2 NPT male
	F	3/4 NPT male
	G	G 1/2 A male
	H	G 3/4 A male
	C	helical bulb, including wall mounting plate
electrical connection		
⑤	M	1/2-14 NPT-M, with 1,5 m cable
	S	1/2-14 NPT-M, with 3 m cable
	T	1/2-14 NPT-M, with 5 m cable
	N	Adapter 1/2-14 NPT-F, with 1,5 m cable
	O	Adapter 3/4-11 NPT-F, with 1,5 m cable
	R	Adaptor M20x1,5-F, with 1,5 m cable
	P	Adapter M20x1,5-M, with 1,5 m cable
	Q	Terminal box, aluminium alloy, with 3 connections ½ NPT female
Mounting		
⑥	A	direct mounting
	B	Wall mounting plate
	Y	Yoke for 2" pipe mounting
Special design features		
⑦	N	NACE
	A	Grounding cable cross-section: max. 4 mm ²
	Z	without
ambient condition / application condition		
⑧	O1	Offshore
	ZZ	without

Order code: TXS4 - B-

Please specify approvals and certificates via free text.

C1 Intrinsic safety Ex ia IECEx-ATEX
C4 SIL 2 for functional safety

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