

Compact temperature switch

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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 -30 ... +10 °C to 160 ... 250 °C
- Ex ia version available
- 1 set point, SPDT or DPDT, high switching power up to AC 250 V, 15 A
- Direct mounting or remote mounting with capillary ≤ 10 m



Order numbers

Case	aluminium, epoxy resin coated	
Sensor	direct mounting	remote mounting with capillary, length 2 m
Process connection	1/2 NPT male	
Electrical connection	1/2 -14 NPT-F	
Electric contacts	A - 1xSPDT, silver contact	
Setting range		
-15 ... +40 °C	14160352	14160356
10 ... 70 °C	14160357	14160358
40 ... 100 °C	14160360	14160361
70 ... 120 °C	14160362	14160364
90 ... 160 °C	14160365	14160366
130 ... 190 °C	14160367	14160368

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

Quick order code (for further details see data sheet TV 31.64)

Field no.	Code	Version
Switch enclosure		
①	2	aluminium, epoxy resin coated
	4	stainless steel 316L
Sensor		
②	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
Contacts		
③	A	1xSPDT, silver contact
	B	1xSPDT, silver contact, hermetically sealed with argon gas
	C	1xSPDT, gold-plated contact, hermetically sealed with argon gas
	G	1xDPDT, silver contact
	H	1xDPDT, silver contact, hermetically sealed with air
Setting range		
④	CAA	-30 ... +10 °C, working range -40 ... +60 °C, proof temperature +90 °C
	CAB	-15 ... +40 °C, working range -40 ... +60 °C, proof temperature +90 °C
	CAC	10 ... 70 °C, working range -40 ... +70 °C, proof temperature +90 °C
	CAD	40 ... 100 °C, working range -40 ... +120 °C, proof temperature +140 °C
	CAE	70 ... 120 °C, working range -40 ... +170 °C, proof temperature +180 °C
	CAF	90 ... 160 °C, working range -40 ... +170 °C, proof temperature +180 °C
	CAG	130 ... 190 °C, working range -40 ... +190 °C, proof temperature +210 °C
	CAH	160 ... 250 °C, working range -40 ... +280 °C, proof temperature +300 °C
Process connection		
⑤	E	1/2 NPT male
	F	3/4 NPT male
	G	G 1/2 A male
	H	G 3/4 A male
Special design features		
⑥	H	helical bulb
	N	NACE
	Z	without
Ambient condition / application condition		
⑦	D1	suitable for ambient temperature up to -60°C
	O1	Offshore
	ZZ	without

Order code:

TCS

①	②	③	④	⑤	⑥	⑦
			-		B-	
				AS		

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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