

Gas-actuated temperature switch, flameproof enclosure Ex d

05/2016

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

Special features

- No power supply needed for switching of electrical loads
- Setting ranges from -30 ... +70 °C to 0 ... 600 °C
- Robust switch enclosure from aluminium alloy, IP 66, NEMA 4X
- 1 or 2 independent set points, SPDT or DPDT, high switching power up to AC 250 V, 20 A
- Remote mounting with capillary ≤ 10 m



Order numbers

Stem diameter	12 mm	
Capillary length	2 m	
Process connection	1/2 NPT male	
Electrical connection	1/2 NPT-F	
Electric contacts	UN - 1 x SPDT silver contact	DN - 2 x SPDT or 1 x DPDT silver contact
Setting range		
-30 ... +70 °C	14159573	14159576
0 ... +100 °C	14159577	14159579
0 ... +160 °C	14159580	14159581
0 ... +250 °C	14159582	14159583
0 ... +400 °C	14159585	14159586
0 ... +600 °C	14159587	14159588

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

Quick order code (for further details see data sheet TV 31.61)

Field no.	Code	Version	
Electric contacts			
①	UN	1 x SPDT silver contact	
	US	1 x SPDT silver contact, hermetically sealed, argon gas filling	
	UO	1 x SPDT gold-plated contact, hermetically sealed, argon gas filling	
	UG	1 x SPDT gold-plated contact	
	UR	1 x SPDT silver contact, adjustable dead band	
	DN	2 x SPDT or 1 x DPDT silver contact	
	DS	2 x SPDT or 1 x DPDT silver contact, hermetically sealed, argon gas filling	
	DO	2 x SPDT or 1 x DPDT gold-plated contact, hermetically sealed, argon gas filling	
	DG	2 x SPDT or 1 x DPDT gold-plated contact	
Capillary length			
②	02	2m, stem diameter 12 mm (Standard)	
	04	4m, stem diameter 12 mm (Standard)	
	06	6m, stem diameter 12 mm (Standard)	
	08	8m, stem diameter 12 mm (Standard)	
	10	10m, stem diameter 12 mm (Standard)	
	C2	2m, stem diameter 9,5 mm	
	C4	4m, stem diameter 9,5 mm	
	C6	6m, stem diameter 9,5 mm	
	C8	8m, stem diameter 9,5 mm	
		C1	10m, stem diameter 9,5 mm
	Setting range		
③	CBA	-30 ... +70 °C, working range -40 ... +70°C, proof temperature +120°C	
	CBB	0 ... +100 °C, working range -40 ... +100°C, proof temperature +120°C	
	CBC	0 ... +160 °C, working range -40 ... +160°C, proof temperature +190°C	
	CBD	0 ... +250 °C, working range -40 ... +250°C, proof temperature +300°C	
	CBE	0 ... +400 °C, working range -40 ... +400°C, proof temperature +500°C	
		CBF	0 ... +600 °C, working range -40 ... +600°C, proof temperature +600°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	
Special design features			
⑤	H	helical bulb	
	N	NACE	
	Z	without	
Ambient condition / application condition			
⑥	D1	suitable for ambient temperature up to -60°C	
	O1	Offshore	
		ZZ	without

Order code: TAG ① - ② - ③ B ④ AM ⑤ ⑥

Please specify approvals and certificates via free text.

C5 Flameproof Ex d IECEx-ATEX
C4 SIL 2 for functional safety