

Mechanical temperature switches

Type T1X/T2X

with capillary for hazardous areas

Features

- Single switch T1X and dual switch T2X with remote sensor
- Explosion proof housing
- Terminal clip integrated, set point adjustment in C and °F under tamper protected cover
- Protection class: IP65, NEMA 4 / 7 / 9
- Optional:
 - for T1X: adjustable hysteresis (switch-back difference), S-micro switch
- Special version for trace heating systems with ratings up to 32 A / 220 V (22/32A / 380 V AC) on request
- Approvals: Ex d, Ex ia, UL, CSA

Adjustment ranges

-45 °C...+66 °C to +160 °C...+316 °C

Applications

Temperature monitoring and control in chemical industry and oil industry, offshore

Technical Data

Housing material:	Die-cast aluminium, painted
Temperature sensor material:	304 stainless steel (1.4301)
Temperature sensor type:	Capillary, 1.8 m long (6 foot) (optional 3.6 m and 7.5 m) (12 and 25 foot), armoured If not equipped with thermowell the sensor may only be used up to 21 bar max.
Electrical values:	All models are equipped with SPDT contacts.
Micro switch type:	H, M, GH, GM, S
Electrical connection:	From the terminal block through a 1/2" NPT conduit connection (T1X) resp. a 3/4" NPT conduit connection (T2X) outside.
Protection class:	IP65, NEMA 4 / 7 / 9

Set point adjustment:	Turn adjustment knob clockwise to increase the actuation point
Standards:	The equipment is in conformity with the following harmonised European standards: EN 60014 1977 + A1 to A4 and EN 500120 1977 + A1
Intrinsic safety:	The switches are also suitable for inherent safety applications. Add "Exi" in case of ordering. The following max. values are valid when using these switches: U _{max} = 28 V I _{max} = 50 mA
Approvals:	Ex d, Ex ia, UL, CSA
Weight:	T1X: approx. 2.1 kg; T2X: approx. 2.9 kg



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Adjustment ranges

Code adjustment range	Sensor temperature limits (°C)	Adjustment range (°C)	Hysteresis (°C)* for micro switch		
			H, GH	M, GM	S
154	-73 ... +93	-45...+66	0.5... 1.1	1.1...2.2	2.2... 8.3
251	-73 ... +149	+10...+121	0,5... 1.1	1.1...2.2	2.2... 8.3
351	-73 ... +205	+66...+177	0.5... 1.1	1.1...2.2	2.2... 8.3
601	-18 ... +343	+149...+227	1.1...2.2	2.2...3.3	1.6...2.7
603	-18 ... +343	+160..+316	1.1...2.2	2.2...3.3	1.6...2.7

* Dependent on medium

Specifications are subject to changes without notice.

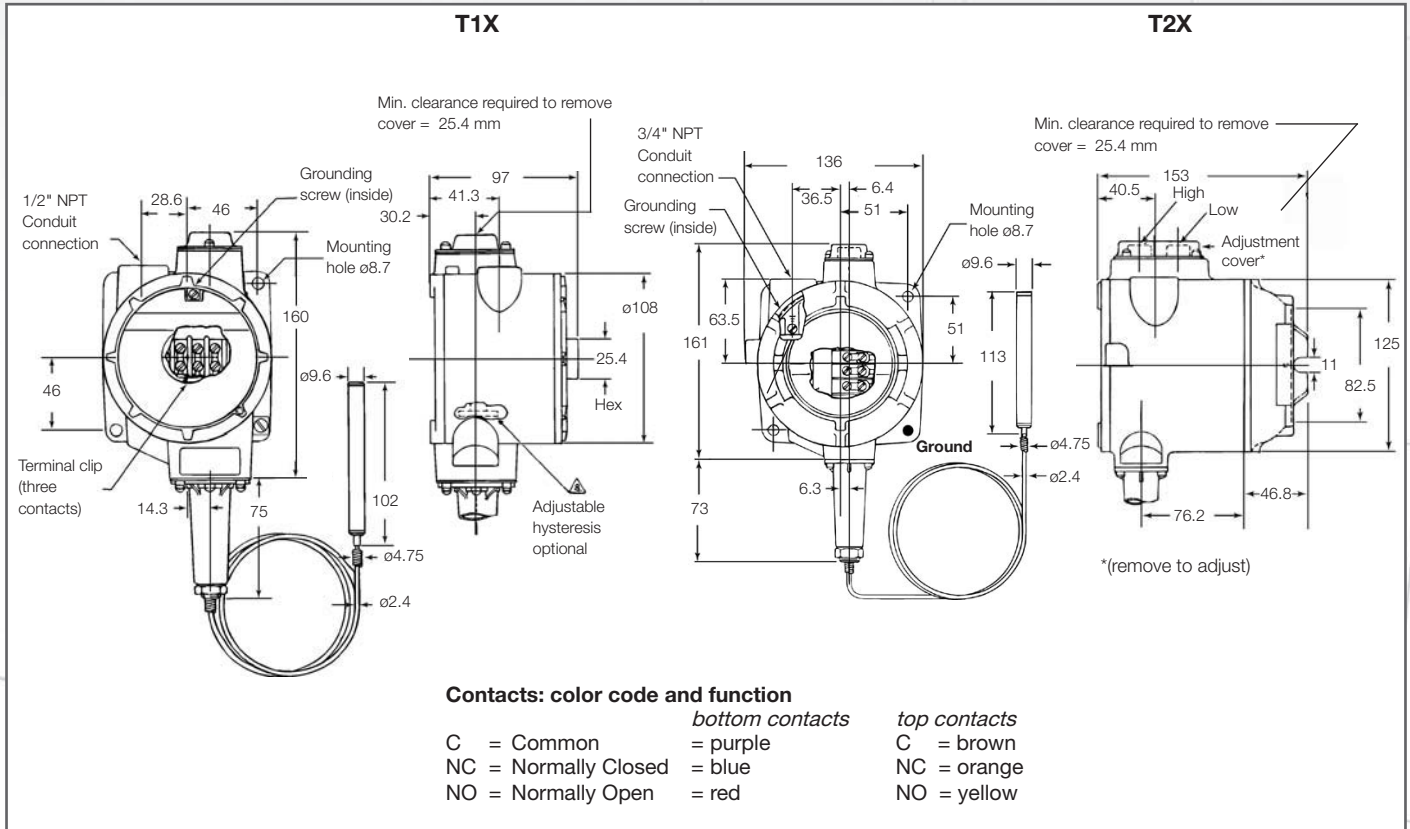
Temperature

Mechanical temperature switches

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Dimensions (in mm / inch)

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Electrical ratings

Micro switch	Special features	Volt AC 50/60 Hz	Ind. load A	Res. load A	Volt DC	Ind. load A	Res. load A	Comments
H	Micro switch with silver contacts	125	10	10	6	0.50	0.5	Small hysteresis; High AC / low DC loads
		250	10	10	to			
		480	3	3	28			
M	Micro switch with silver contacts	125	10	10	12	5.00	15.0	Medium hysteresis; High AC and DC loads
		250	10	10	24			
		480	3	3	250			
GH	Micro switch with gold contacts for low voltage and low current	125	1	1	24	1.00	1.0	Small hysteresis
GM	Micro switch with silver contacts	30	0.1	0.1	30	0,10	0.1	Medium hysteresis
S	Micro switch with silver contacts	480	15	15	125	0,05	0.4	Adjustable hysteresis

Sensor lengths / Options

Barksdale

Sensor lengths		Options	
S-A	1.8 m, armoured, SS (6 foot)	EXI	for intrinsically safe application, Ex ia
S-12-A	3.6 m, armoured, SS (12 foot)	EX	Ex d protection
S-25-A	7.5 m, armoured, SS (25 foot)		

Ordering

Example for order number

Type	Micro switch	Code Adjustment range	Sensor length	Options
T1X	H	251	S-A	EXI
T2X				

Your order number

T_X				
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