

# 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



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### Technical Data

<b>Housing material:</b>	Die-cast aluminium, painted
<b>Temperature sensor material:</b>	304 stainless steel (1.4301)
<b>Temperature sensor type:</b>	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.
<b>Electrical values:</b>	All models are equipped with SPDT contacts.
<b>Micro switch type:</b>	H, M, GH, GM, S
<b>Electrical connection:</b>	From the terminal block through a 1/2" NPT conduit connection (T1X) resp. a 3/4" NPT conduit connection (T2X) outside.
<b>Protection class:</b>	IP65, NEMA 4 / 7 / 9

<b>Set point adjustment:</b>	Turn adjustment knob clockwise to increase the actuation point
<b>Standards:</b>	The equipment is in conformity with the following harmonised European standards:  EN 60014 1977 + A1 to A4 and EN 500120 1977 + A1
<b>Intrinsic safety:</b>	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 <sub>max</sub> = 28 V I <sub>max</sub> = 50 mA
<b>Approvals:</b>	Ex d, Ex ia, UL, CSA
<b>Weight:</b>	T1X: approx. 2.1 kg; T2X: approx. 2.9 kg

### 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.

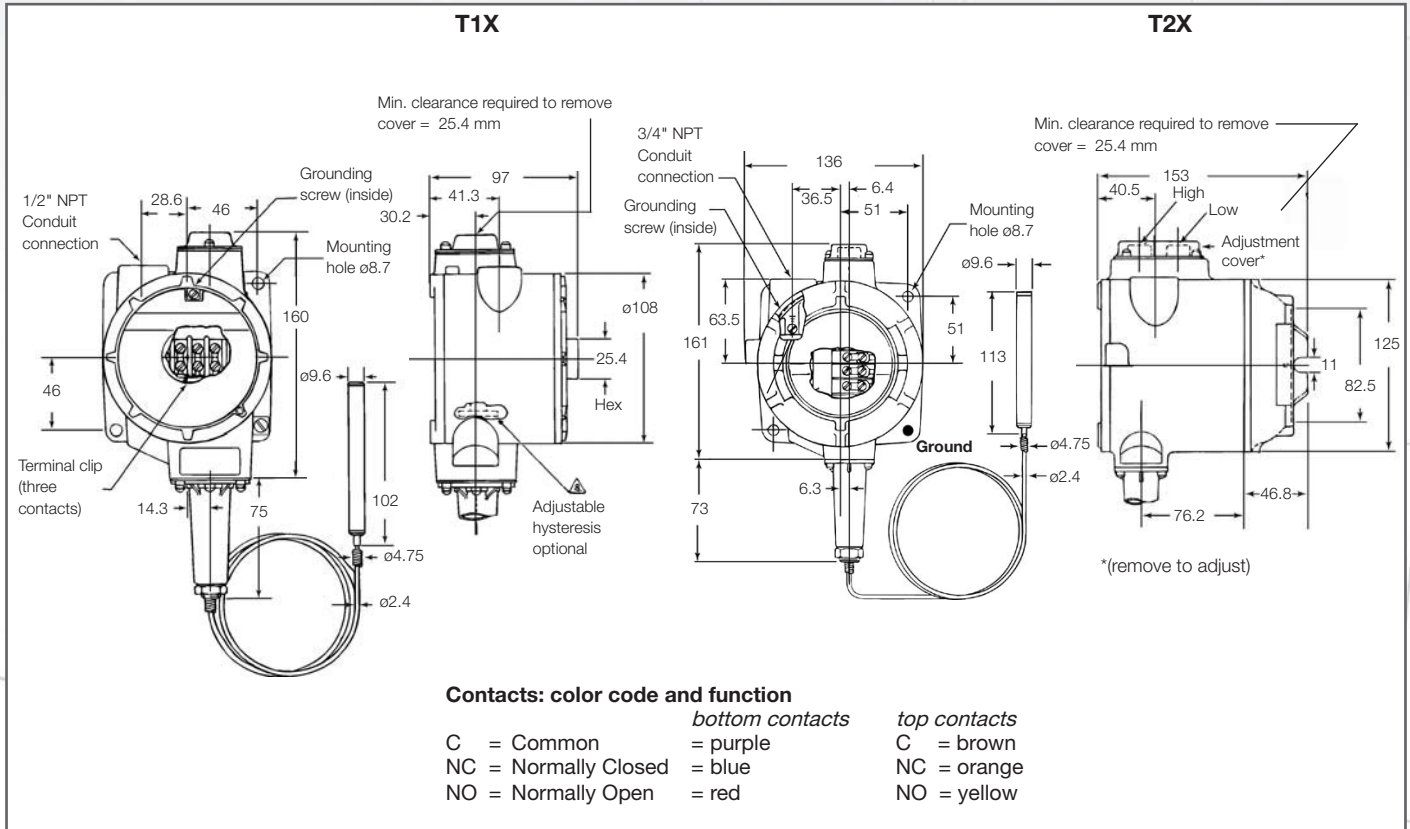
# Temperature

## Mechanical temperature switches

## Type T1X/T2X

### 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
<b>H</b>	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			
<b>M</b>	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			
<b>GH</b>	Micro switch with gold contacts for low voltage and low current	125	1	1	24	1.00	1.0	Small hysteresis
<b>GM</b>	Micro switch with silver contacts	30	0.1	0.1	30	0,10	0.1	Medium hysteresis
<b>S</b>	Micro switch with silver contacts	480	15	15	125	0,05	0.4	Adjustable hysteresis

### Sensor lengths / Options

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

### Ordering

Example for order number

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

Your order number

<b>T_X</b>			
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