

# Hazardous Area Thermostats



011850-00

## Applications

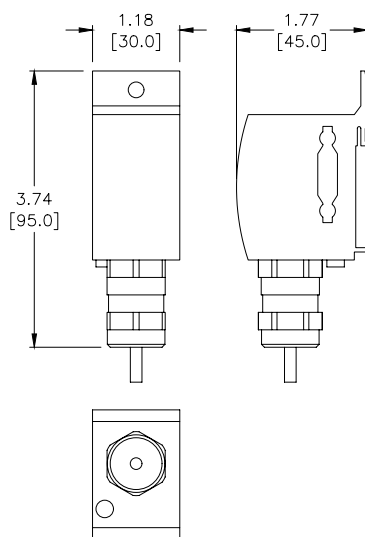
Compact, small mechanical thermostat offering a high response accuracy, small switching difference, and a very long service life (switching cycles). This thermostat of temperature class T6 (185°F/85°C max.) is utilized for the regulation of heaters deployed in hazardous areas. High current performance allows direct control of a heater.

## Features

- For use in hazardous areas
- High switching capacity
- Compact design
- "Pre-set" temperatures
- Ready to use with strain relief
- Temperature class T6
- DIN rail mounting



## Dimensions



## Hazardous Area Thermostat Specifications

|                                                                   |                                                                                |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Temperature Class</b>                                          | T6                                                                             |
| <b>Ex Protection Type Ex 11 2 GD Gases</b>                        | Ex db IIC T6 Gb                                                                |
| <b>Dusts</b>                                                      | Ex tb IIIC T85 °C Db IP66                                                      |
| <b>Ambient Temperature</b>                                        | -76 to 185°F [-60 to 85°C]                                                     |
| <b>Sensor Element</b>                                             | Thermostatic bimetal                                                           |
| <b>Service Life</b>                                               | > 100 000 cycles                                                               |
| <b>Max. Switching Capacity</b>                                    | AC 250V 10A* DC 24V 1A                                                         |
| <b>Min. Switching Capacity</b>                                    | DC 1.5V 5mA                                                                    |
| <b>Max. Inrush Current</b>                                        | AC 16A for 12 sec.                                                             |
| <b>Connection</b>                                                 | Silicone cable (halogen-free) 3 x 18 AWG (0.82 mm²), length 3ft [1m]           |
| <b>Housing</b>                                                    | aluminum, silver anodized                                                      |
| <b>Mounting</b>                                                   | Clip for 35mm DIN rail, EN 60715 M5 screw mounting, optional sideways mounting |
| <b>Mounting Position</b>                                          | Variable                                                                       |
| <b>Operating / Storage Humidity</b>                               | max. 90 % RH (non-condensing)                                                  |
| <b>Storage Temperature</b>                                        | -76 to 185°F [-60 to 85°C]                                                     |
| <b>Weight</b>                                                     | 0.66 lb [300 g]                                                                |
| <b>Protection Type / Protection Class</b>                         | IP66 / I (grounded)                                                            |
| <b>Approvals</b>                                                  | EPS 16 ATEX 1 118 X<br>IECEx EPS 16.0054X<br>EAC, CE 0081 Ex 11 2 GD           |
| <b>Note:</b> *Currents above 4 A affect the switching difference. |                                                                                |

## Hazardous Area Thermostat

| PartNumber       | Price    | Contact Type    | Switch Temperature     | Switching Difference (Hysteresis) |
|------------------|----------|-----------------|------------------------|-----------------------------------|
| <b>011850-00</b> | \$126.00 | Normally Closed | 59°F ± 5°F [15°C ± 3K] | 9°F ± 5°F / tolerance [5°C ± 3K]  |
| <b>011851-00</b> | \$126.00 | Normally Closed | 77°F ± 5°F [25°C ± 3K] | 9°F ± 5°F / tolerance [5°C ± 3K]  |