

# Compact explosion proof temperature switch

**T9692X**

## Features

- IECEx & ATEX approved
- Compact design
- NEMA 4X, 7 & 9
- SPDT and DPDT switch
- Class I Div I
- Local mount or capillary type
- Panel mount capability
- 316 stainless steel
- NACE compliant
- Armored capillary

## Adjustment ranges

-23 °C...+43 °C bis 82 °C...+165 °C

## Applications

Offshore,  
Chemical plants & refineries,  
Compressor skids,  
Instrument panels,  
Hazardous location applications



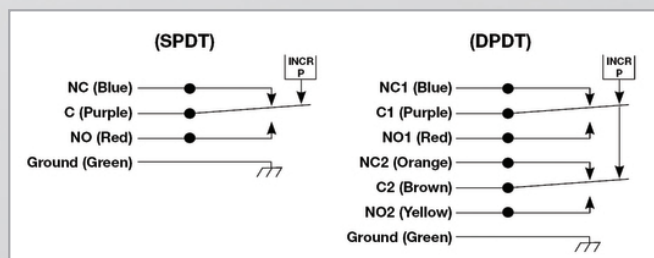
## Technical Data

|                        |                                                                             |
|------------------------|-----------------------------------------------------------------------------|
| Repeatability:         | ±3% of full scale                                                           |
| Typical life:          | 1 million cycles                                                            |
| Switch type:           | SPDT, snap action,<br>Class EE,<br>simulated DPDT (optional) with 2<br>SPDT |
| Electrical ratings:    | 11 A 125/250 VAC<br>5 A 30 VDC (EE class)                                   |
| Material:              |                                                                             |
| Capillary & armor:     | 316 stainless steel (1.4401/1.4436)                                         |
| Housing:               | 316 stainless steel (1.4401/1.4436)                                         |
| Sensor:                | stainless steel                                                             |
| Electrical connection: | 1/2" NPT male conduit connection<br>18 AWG, 18" (450 mm) free leads         |
| Protection class:      | NEMA 4X, 7 & 9                                                              |

|                       |                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals:            |                                                                                                                                                 |
| ATEX:                 | CE 0081 LCIE 08 ATEX 6074X<br>Ex II 2 G Ex d IIC T6 Gb,<br>IECEX LCIE 17.0001X,<br>-40 °C ≤ T <sub>amb</sub> ≤ 60 °C                            |
| UL:                   | Listed 366S, Class: I,<br>Groups: A, B, C, D,<br>-25 °C ≤ T <sub>amb</sub> ≤ 60 °C                                                              |
| CSA:                  | Class: I, Groups: B, C, D<br>-40 °C ≤ T <sub>amb</sub> ≤ 60 °C                                                                                  |
| Ambient temperature:  |                                                                                                                                                 |
| CSA & ATEX:           | -40 °C to 60 °C (-40 °F to 140 °F)                                                                                                              |
| UL:                   | -25 °C to 60 °C (-13 °F to 140 °F)                                                                                                              |
| EMI/RFI (EMC):        | EN55011                                                                                                                                         |
| Vibration resistance: | 10g 10-500 Hz, MIL-STD 202 °F                                                                                                                   |
| Shock resistance:     | 50g 11 ms, MIL-S-901C                                                                                                                           |
| Set point adjustment: | Adjustment knob can be locked by<br>setscrew (hexagon socket SW 1.5).<br>Set point is increased<br>by turning the adjustment knob<br>clockwise. |
| Weight:               | max. 1.4 kg                                                                                                                                     |

## Switching and Connection Diagram

| ---                | Circuit #1 | Circuit #2 |
|--------------------|------------|------------|
| Normally Closed/NC | Blue       | Orange     |
| Common             | Purple     | Brown      |
| Normally Open/NO   | Red        | Yellow     |
| Ground             | Green      |            |

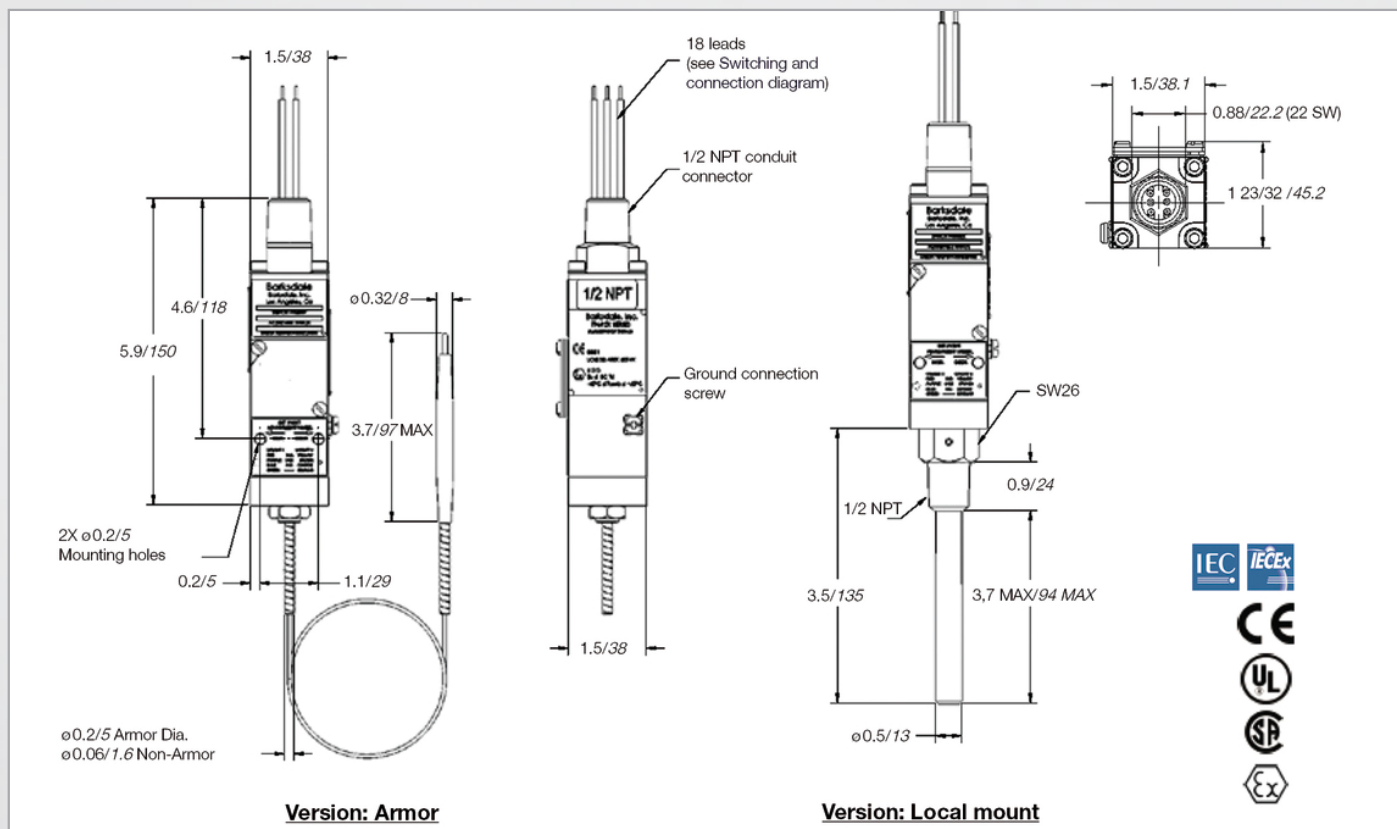


# Temperature

## Compact explosion proof temperature switch

**T9692X**

### Dimensions (mm / inch)



### Product Configurator

|         |        |    |    |    |     |  |
|---------|--------|----|----|----|-----|--|
| Example | T9692X | -1 | EE | -1 | -72 |  |
|---------|--------|----|----|----|-----|--|

#### Base Configurator

|        |                    |
|--------|--------------------|
| T9692X | Temperature switch |
|--------|--------------------|

#### Switch contact

|    |                              |
|----|------------------------------|
| -1 | SPDT                         |
| -2 | DPDT (simulated with 2 SPDT) |

#### Micro switch

|    |                                                  |
|----|--------------------------------------------------|
| EE | Silver contacts, 11 A, 125V/250 VAC; 5 A, 30 VDC |
| GH | Gold contacts, 1 A, 125/250 VAC                  |

#### Temperature ranges

|    | Adjustment range                   | Approx. Deadband <sup>2</sup> Actuation value | Max. temperature range             | Proof temperature |
|----|------------------------------------|-----------------------------------------------|------------------------------------|-------------------|
| -1 | -10 °F to 110 °F (-23 °C to 43 °C) | 5 °F to 30 °F (2,8 °C to 16,7 °C)             | -40 °F to 160 °F (-40 °C to 71 °C) | 160 °F (71 °C)    |
| -2 | 95 °F to 220 °F (35 °C to 104 °C)  | 5 °F to 30 °F (2,8 °C to 16,7 °C)             | 40 °F to 270 °F (4 °C to 132 °C)   | 270 °F (132 °C)   |
| -3 | 180 °F to 330 °F (82 °C to 165 °C) | 5 °F to 30 °F (2,8 °C to 16,7 °C)             | 70 °F to 380 °F (21 °C to 193 °C)  | 380 °F (193 °C)   |

<sup>1</sup> Not available in local mount

<sup>2</sup> Deadband values indicated when used with the "EE" limit switch.

#### Options

|                 |                                   |
|-----------------|-----------------------------------|
| ---             | Standard                          |
| -A <sup>1</sup> | Stainless steel, armor            |
| -SXXX           | with factory set point adjustment |
| -WXXX           | Extra wire length (XXX=inches)    |

#### Capillary Length

|      |                    |
|------|--------------------|
| -072 | 6 ft (1.8 meters)  |
| -108 | 9 ft (2.7 meters)  |
| -144 | 12 ft (3.7 meters) |
| -001 | Local mount        |

### Accessories

| Order No. | Description                                                      |
|-----------|------------------------------------------------------------------|
| 926-0811  | Ex d - Terminal box incl. terminal (drawing 923-1533 on request) |