

# EXPRO-TT SAFETY TEMPERATURE TRIGGER

Zones 1, 2, 21, 22

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## ATEX ACTUATORS

## ZONES 1, 2 (gas) & 21, 22 (dust)



The thermoelectric safety trigger ExPro-TT... activates the motorized fire damper into its safety position by spring return operation of an **ExMax-...-BF** or **RedMax-...-BF** actuator.

### Function:

Two temperature fuses Tf1 and Tf2 are part of the trigger. In case that the ambient temperature outside the duct is more than +72 °C the temperature fuse Tf1 triggers. If the temperature inside the duct is more than +71 °C the temperature fuse Tf2 triggers. If Tf1 or Tf2 is switching off the power, the circuit to the actuator is irreversibly cut. The spring return of the actuator moves the damper into its safety position.

### Performance control:

A performance control for safety operation of the damper is possible with push button of the trigger. The function of the temperature fuses Tf1, Tf2 can be simulated in this way.

### Electrical wiring:

The temperature trigger must be connected directly to the actuator. Remove the plastic cover and put the plug in the socket and screw tight.

### Short circuit monitoring:

The ExPro-TT... is continuously monitored by the actuator. If a short circuit is detected in the wiring the actuator travels back to its safety position.



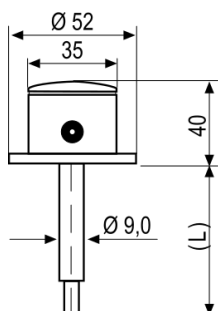
EU-Type Examination Certificate

### ExPro-TT CONNECTABLE TO ACTUATORS ExMax-...-BF and RedMax-...-BF

Type:	Function:	Length (L):	Temperature fuse duct / outside duct:	Test button:	Item No.:
ExPro-TT-72	Safety temperature trigger	65 mm	1 temp. fuse switching at +71 °C / +72 °C	1 test button	8A1301
ExPro-TT-72-L90	Safety temperature trigger	90 mm	1 temp. fuse switching at +71 °C / +72 °C	1 test button	8A1302

### TECHNICAL SPECIFICATIONS

Marking:	II 2G Ex ia IIC T6 Gb II 2D Ex tb IIIC T80°C Db
Certificate:	EU-Type Examination Certificate
Supply:	Only by ...Max-...-BF... actuators
Connection:	~ 1 m cable
Cable:	2 × 0,5 mm <sup>2</sup> , -40...+220 °C, halogen-free   Inductance ≈ 0,6 mH/km, capacitance ≈ 30 nF/km
Cable gland:	M12 × 1,5 mm Ex-e, brass nickel-plated Ø 4...6 mm
Temperature fuse:	1 × duct, 1 × outside duct (not changeable)
Response temperatures:	Tf1 room ambient temperature at +72 °C   Tf2 duct temperature at +71 °C
Ambient temperature:	Ta -40...+72 °C, working temperature Tb -40...+55 °C
Storage temperature:	-40 to +55 °C
Humidity protection:	< 95 % rH, non condensing
Weight:	200 g
Materials:	Thermowell brass plated, housing N° 1.4581 / UNS-J92900 / similar AISI 316Nb, cover brass plated, seal cover FPM
Maintenance:	Maintenance free, a yearly function control is recommended
Mounting:	Direct mounting to the duct or damper with tapping screws. Notice: Position of the sensor of the safety temperature trigger must guarantee free air flow.



### Drill template

