

# ExPro-TT Safety temperature trigger

connectable to actuators **ExMax-...-BF** and **RedMax-...-BF** for fire dampers

Subject to change!

Type	Function	Length (L)*	Temperature fuse duct / outside duct	Test button	Connectable to
ExPro-TT-72	Safety temperature trigger	65 mm	1 temp. fuse switching at +71 °C / +72 °C	1 test button	ExMax-...-BF..., RedMax-...-BF...
ExPro-TT-72-L90	Safety temperature trigger	90 mm	1 temp. fuse switching at +71 °C / +72 °C	1 test button	ExMax-...-BF..., RedMax-...-BF...

\* Other lengths on request

## Product views and applications

Temperature trigger	Dimensions in mm	Mounting	Quick fastener M12
		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.	

### Description

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.

### Technical data

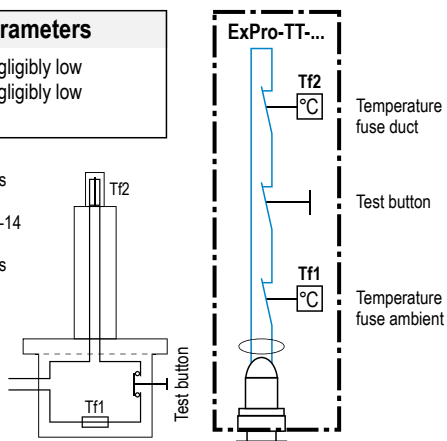
<b>Supply</b>	only by ...Max-...-BF... actuators by Schischek
<b>Connection</b>	~ 1 m cable
<b>Cable</b>	2 × 0,5 mm <sup>2</sup> , -40...+220 °C, halogen-free inductance ≈ 0,6 mH/km, capacitance ≈ 30 nF/km
<b>Cable gland</b>	M12 × 1,5 mm Ex-e, brass nickel-plated Ø 4...6 mm
<b>Temperature fuse</b>	1 × duct, 1 × outside duct (not changeable)
<b>Response temperatures</b>	Tf1 room ambient temperature at +72 °C Tf2 duct temperature at +71 °C
<b>Ambient temperature</b>	Ta -40...+72 °C, working temperature Tb -40...+55 °C
<b>Storage temperature</b>	-40...+55 °C
<b>Humidity protection</b>	< 95 % rH, non condensing
<b>Weight</b>	200 g
<b>Materials</b>	thermowell brass plated, housing № 1.4581 / UNS-J92900 / similar AISI 316Nb cover brass plated, seal cover FPM
<b>Maintenance</b>	maintenance free, a yearly function control is recommended

### Electrical wiring to ...Max-...-BF actuators

#### Intrinsically safe parameters

$U_i = 30 \text{ V}$      $C_i = \text{negligibly low}$   
 $I_i = 25 \text{ mA}$      $L_i = \text{negligibly low}$   
 $P_i = 60 \text{ mW}$

- For electrical installations design, selection and erection, EN/IEC 60079-14 can be used.
- For electrical installations inspection and maintenance, EN/IEC 60079-17 can be used.



### Approvals

<b>ATEX directive</b>	2014/34/EU
<b>EC type-approved</b>	EPS 19 ATEX 1 020
<b>IECEX certified</b>	IECEX EPS 19.0012
<b>Approval for gas</b>	II 2 G Ex ia IIC T6 Gb
<b>Approval for dust</b>	II 2 D Ex tb IIIC T80°C Db
<b>CE identification</b>	CE № 0158
<b>EMC directive</b>	2014/30/EU
<b>Low voltage directive</b>	2014/35/EU
<b>Enclosure protection</b>	IP66 in acc. with EN 60529
<b>VdS</b>	DIN 4102-6, ISO 10294-4

### Special solutions

<b>ExPro-TT-...-S1</b>	Safety temperature trigger incl. cable gland M25 × 1,5 mm
<b>ExPro-TT-...-S6</b>	Safety temperature trigger with 1,5 m cable