

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 switch	Connectable to
ExPro-TT-72	Safety temperature trigger	65 mm	1 temp. fuse switching at +71 °C / +72 °C	1 push button	ExMax-...-BF, RedMax-...-BF
ExPro-TT-72-L90	Safety temperature trigger	90 mm	1 temp. fuse switching at +71 °C / +72 °C	1 push button	ExMax-...-BF, RedMax-...-BF
ExPro-TT-...	Special types on request (length ...)				

Product views and applications

Temperature trigger	Dimensions in mm	Mounting	Quick fastener M12
		<p>Direct mounting to the duct or damper with tapping screws. Important: Position of the sensor of the safety temperature trigger must guarantee free air flow.</p>	

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.

Mode of operation

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.

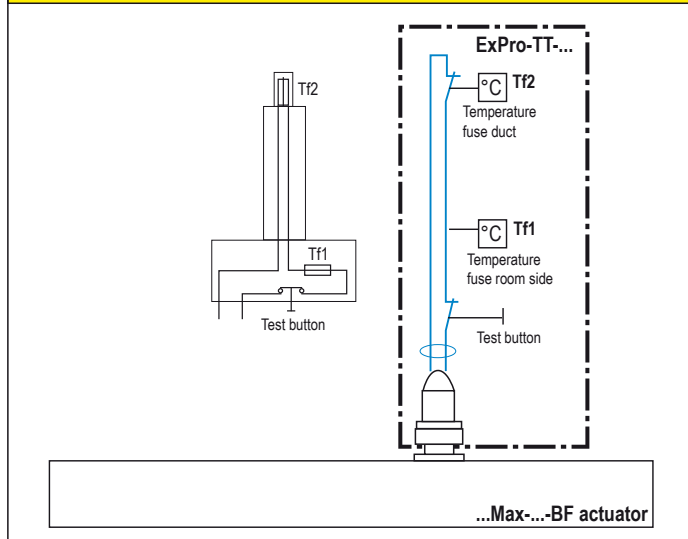
Short circuit monitoring

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

Supply	only by ...Max-...-BF actuators by Schischek
Connection	~ 1 m cable
Cable	2 × 0,5 mm ² , SAB A 130 HT (-40...+220 °C) PVC-, halogen-, silicone free inductance ≈ 0,6 mH/km, capacitance ≈ 30 nF/km
Response temperatures	Tf1 room side temperature at +72 °C Tf2 duct temperature at +71 °C
Temperature fuse	1 × duct, 1 × outside duct (not changeable)
Ambient temperature	Ta: -40...+72 °C at T6 / -40...+87 °C at T5 / -40...+102 °C at T4
Storage temperature	Tb: -40...+55 °C
Humidity protection	< 95 % rH, non condensing
Weight	200 g
Materials	thermowell brass plated, housing V4A / DIN EN 1.4581 cover brass plated, seal cover FPM
Cable gland	M12 × 1,5 mm II2GD Ex-e brass plated Ø 4...6 mm
Maintenance	maintenance free, a yearly function control is recommended

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



Approvals

ATEX	PTB 10 ATEX 2006 acc. to directive 94/9/EC
Certified for gases	II 2 G Ex ia IIC T6 Gb Zone 1, 2
Certified for dusts	II 2 D Ex ia IIIC T80 °C Db Zone 21, 22 II 2 D Ex tb IIIC Db IP66
IECEX	IECEX PTB 13.0053 Ex ia IIC T6 Gb / Ex ia IIIC T6 Db / Ex tb IIIC T80 °C Db IP66
EMC	CE acc. to 2004/108/EG
IP protection	IP66 acc. to EN 60529
VdS	DIN 4102 part 06, ISO 10294-4

Intrinsically safe parameters

U_i	30 V	C_i	negligibly low
I_i	22 mA	L_i	negligibly low
P_i	60 mW		

Special solutions

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