



Electrical Explosion Proof actuators

Catalogue 2008

Series EXBF – on/off

- ✚ *Spring Return torque: 12 Nm*
- ✚ *Motor torque: 18 Nm*
- ✚ *Spring running time ± 16 sec*
- ✚ *Control ON/OFF*
- ✚ *Power supply 230V ac, 24V ac, 24V dc*
- ✚ *EEx-I circuit integrated*
- ✚ *In according to EN 50014, EN 50018*
- ✚ *Zone 1, 2, 21, 22*



Applications

The EXBF...001 spring return actuator **combined with thermo-electric tripping device** (72° duct) are intended for the operation of fire and smoke dampers in ventilation and air-conditioning systems.

Features

The actuator moves the damper to its working position while tensioning the spring return until it is powered. If the power supply is interrupted the spring moves the damper back to its safe position. The actuator is overload protected.

The actuator can be mounted directly on the damper shaft if square, 12 x 12 mm or 10 x 10 mm (adaptor included); Several mounting brackets are available for applications where the actuator cannot be directly coupled to the damper shaft. The cable glands are fit for cable diameters from 8 to 10,5 mm.

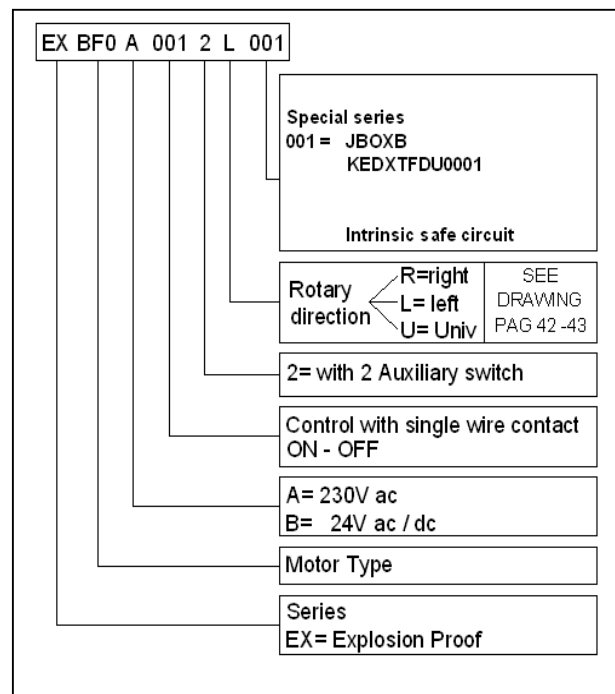
Products range

ITEM	Belimo type	Auxiliary Switch
EXBF 0 A 001 2 L 001	BF230-T	2 x SPDT
EXBF 0 A 001 2 R 001		
EXBF 0 A 001 2 U 001		
EXBF 0 B 001 2 L 001	BF24-T	
EXBF 0 B 001 2 R 001		
EXBF 0 B 001 2 U 001		

For ROTARY direction see page 42 or 43

Options available on request:

Different angle of rotation
Different wiring length





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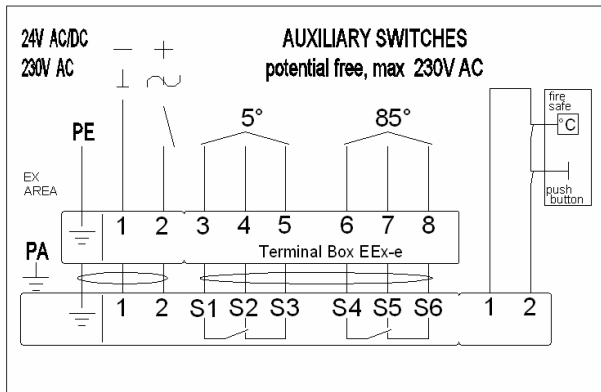
Technical data		
Torque	- motor - Spring	18 Nm 12 Nm
Rotation angle		95°
Running time		140 Sec
Running time spring return		± 16 sec
Intrinsic safe circuit		Additional EEx-I circuit to connect a passive potential free thermostat as a safety sensor, e.g. type fire safe
Thermo-electric tripping device		KEDXTFDU0001 (72° duct)
Ambient temperature		-20°C + 50°C
Degree of protection		IP66
Housing material		Aluminium baked varnish
Maintenance		None
Fastening		Terminal block in EEx e box
Wiring length		1 m. cable
Weight		8.5 kg
Auxiliary micro switches		6A (3A) max 250 V ac Switching point at 5° e 80°

Technical data	
EXBF A Version	
Power supply	230 V AC ±14% 50/60 Hz
Power consumption: running	8,0 W
At rest	3,0 W
Sizing	12,5 VA

EXBF B Version	
Power supply	24 V AC ±20% 50/60 Hz 24 V DC -10% + 20%
Power consumption: running	7,0 W
At rest	2,0 W
Sizing	10 VA

EMC	CE according to 2004/108/EC
Low voltage directive	CE according to 2006/95/EEC
Halogen – Free wiring	According to CEI 20-37 and According to IEC 60754-1/2

Electric diagram



NOTE:

- Read the note about the use and torque requirements of the damper manufacturer
- All electrical wirings must be according to local standards.
- Electrical connections by power off only.
- EEx e junction box must not be opened under any circumstances when the power is on.
- Actuator cable must be installed in a fixed position and protected against damage.
- Avoid excessive vibrations.
- Before switching-on, check that no other equipment is damaged and make sure that supply voltage corresponds with the Actuator's specification.
- Before switching-off check for possible effects on other equipments.
- The Actuator cannot and is not to be opened guarantee explosion proof and warranty.
- For any problem contact your supplier.

TIPYCAL APPLICATION IN EX AREA

