

EDELWEISS Actuators

Electrical Explosion Proof actuators

Catalogue/price list 2012

Series EXAF – Modulating

- ✚ *Spring Return torque: 20 Nm*
- ✚ *Motor torque: 20 Nm*
- ✚ *Spring running time $\pm$ 20 sec.*
- ✚ *Working Field 2...10V (Standard)*
- ✚ *Power supply 24V ac, 24V dc*
- ✚ *In according to EN 60079-0, EN60079-1, EN 60079-31*
- ✚ *Zone 1, 2, 21, 22*

Applications

The EXAF spring return actuators are intended for the operation of air damper that perform safety functions (e.g. frost and smoke protection, hygiene, ect.) up to 3 m²

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
EXAF 0 B MF2 0 L 000	SF24A-MF	None
EXAF 0 B MF2 0 R 000		
EXAF 0 B MF2 0 U 000		
EXAF 0 B SR2 2 L 000	SF24-SR-S2	2 x SPDT
EXAF 0 B SR2 2 R 000		
EXAF 0 B SR2 2 U 000		

Options available on request:

Different angle of rotation
Different wiring length



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NEMKO 03 ATEX 1242X



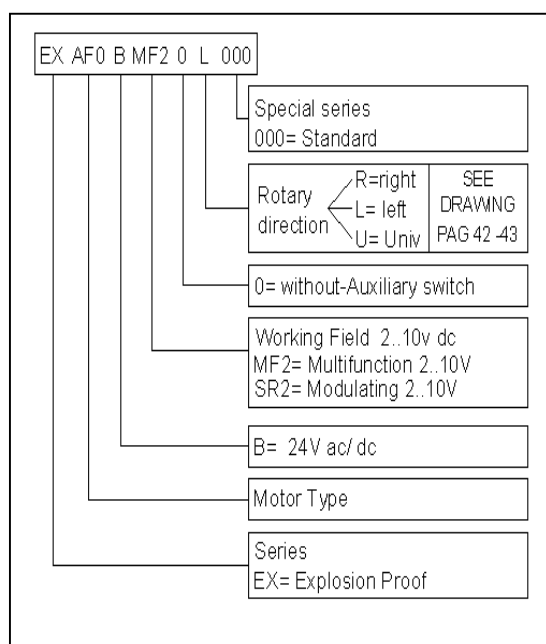
II 2G Ex d IIC T6 Gb



II 2D Ex tb IIIC T67 °C

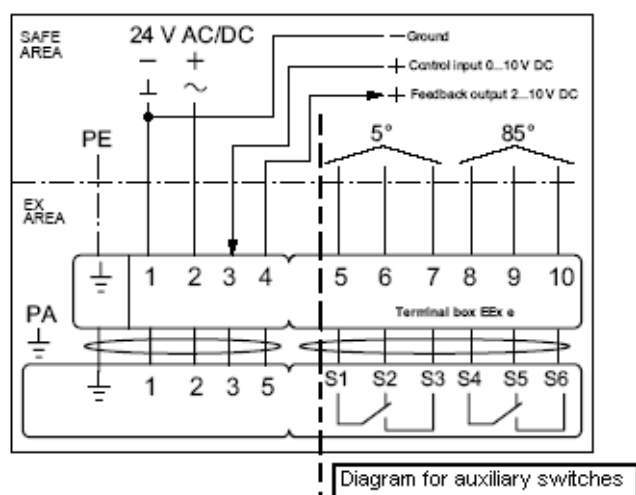
For zone 1, 2, 21, 22

The product may be differ from the illustration



Technical data			
Motor and spring Return Torque	20 Nm	Power supply	AC 24V $\pm 20\%$ 50/60 Hz
Control Mode	DC 0...10v		DC 24V -10/+20%
Working Field	DC 2...10v	Power consumption: running	6,0 W
Feedback	DC 2...10v	At rest	1,5 W
Angle of rotation	95°	Sizing	10,0 VA
Running time motor	150 Sec.	Attention: Only with MFT multifunction technology : Running time motor 150 s adjustable Control DC 2...10 V, 0...32 V adjustable Operating range DC 2...10 V, 0...32 V (adjustable) Position feedback DC 2...10 V, 0...10V, (adjustable)	
Running time spring return	± 16 sec		
Ambient temperature	-20°C + 50°C		
Degree of protection	IP66		
Housing material	Aluminium baked varnish		
Maintenance	None		
Fastening	Terminal block in Ex e box (optional)		
Wiring length	1m. cable		
Weight	8,6 Kg		
Auxiliary switches	6A (3A) max 250V		
	switching point 5° e 85°		
EMC	CE according to 2004/108/EC		
Low voltage directive	CE according to 2006/95/EEC		
Halogen – Free wiring	According to IEC 60332-1/3 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.
- Ex 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 to guarantee explosion proof and warranty. For any problem contact Edelweiss Actuators.
- The equipment shall be marked "X" since flameproof joint is other than the relevant minimum or maximum according to CEI EN 60079-1. Information on dimension of flameproof joints available at Edelweiss Actuators.srl