

Electrical Explosion Proof actuators

Catalogue 2012

Series EXSM – on/off – QUICK VERSION

- ✚ *No spring return*
- ✚ *Running time 7 sec.*
- ✚ *16 Nm*
- ✚ *Control 2 wire, ON/OFF*
- ✚ *Power supply 24V AC, 24V DC*
- ✚ *In according to EN 60079-0, EN60079-1, EN 60079-31*
- ✚ *Zone 1, 2, 21, 22*

Applications

The EXNM actuators are intended for the operation of:

- Modulating control ball valves
- Air control damper in ventilation and air conditioning system up to approx 3.2m²

Features

The actuator moves the damper to its working position until it is powered. If the power supply is interrupted the motor locks the damper 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.

Products range

ITEM	Belimo type	Auxiliary Switch
EXSM Q B 002 0 L 000	SMQ24A	None
EXSM Q B 002 0 R 000		
EXSM Q B 002 2 L 000	SMQ24A+S2A	2 x SPDT
EXSM Q B 002 2 R 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 differ from the illustration

EXNMQB 002 2 L 000

Special series
000= Standard

Rotary direction
R=right
L= left

SEE
DRAWING
PAG 42-43

0= with 0 auxiliary switches
2= with 2 auxiliary switches

Control with double wire contact
ON - OFF

B= 24V ac / dc

Motor Type

Series
EX= Explosion Proof

EDELWEISS *Actuators*

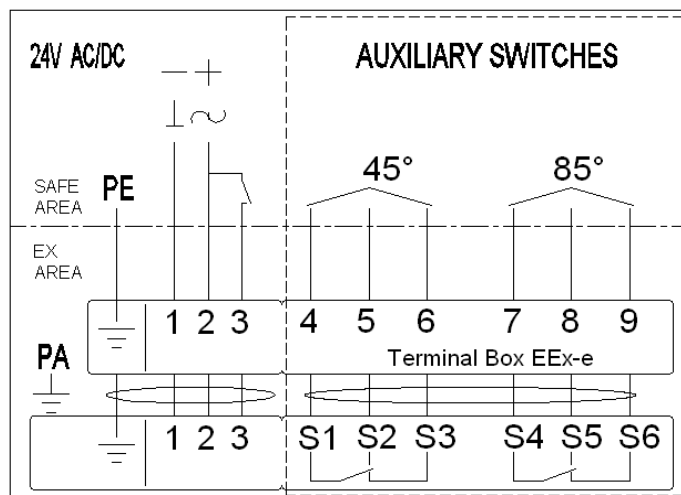
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Technical data			
Torque	16 Nm	Power supply	AC/DC 24V 50/60 Hz
Control Mode	ON/OFF 2 Wire	Nominal voltage range	AC 19.2 28.8 V
Rotation angle	95°		DC 21.6 28.8 V
Running time	7 Sec.	Power consumption: running	15 W
		At rest	2 W
Ambient temperature	-20°C + 50°C	Sizing	26 VA
Degree of protection	IP66		
Housing material	Aluminium baked varnish		
Maintenance	None		
Fastening	Terminal block in Ex e box		
Wiring length	1 m. cable		
Weight	5.5 kg		
Auxiliary micro switches	3A (0,5A) max 250 V ac Switching point at 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