

Electrical Explosion Proof actuators

Catalogue 2008

🞍 No spring return

- 🞍 Running time 35 sec
- 10 NM
- ✤ Working field 2...10V (standard)
- 🞍 Power supply 24V ac, 24V dc
- In according to EN 50014, EN 50018
- 🞍 Zones 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 condition system up to approx 2m².



Features

Just powered, the actuator moves the damper to its start position, then it moves to the position set by the control signal. If the control signal is interrupted the motor return to the original 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			
EXNM	С	В	MF2	0	L	000	NMC24A-MF
EXNM	С	В	MF1	0	L	000	NMC24A-MF
EXNM	С	В	MF5	0	L	000	NMC24A-MF

Several Junction Boxes available, see pages 37 or 38 For ROTARY direction see page 42 or 43 on "Edelweiss catalogue 2008"

Special series 000= Standard
Rotary R=right direction L= left SEE DRAWING PAG 42 -43
0= without-Auxiliary switch 2= with 2 Auxiliary switch
Working Field Multifunction WF1= 010v dc MF5= 420mA
B= 24V ac/ dc
Motor Type
Series EX= Explosion Proof

Options available on request: Different angle of rotation Different wiring length



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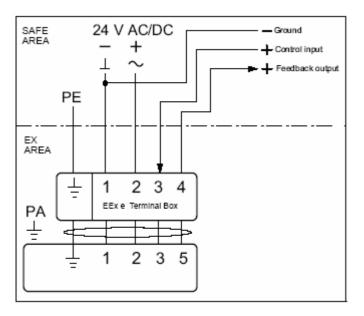
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Series EXNM – Modulating

Technical data	
Torque	10 Nm
Control Mode	see table below
Working Field	see table below
Feedback	see table below
Angle of rotation	95°
Running time	35 Sec.
Ambient temperature	-20°C + 50°C
Degree of protection	IP66
Housing material	Aluminium baked varnish
Maintenance	None
Fastening	Terminal block in EEx e box (optional)
Wiring length	1m. cable
Weight	5.5 Kg
EMC	CE according to 2004/108/EC
Low voltage directive	CE according to 73/23/EEC
Halogen – Free wiring	According to CEI 20-37 and
Talogen – Tiee willing	According to IEC 60754-1/2

Table	MF1	MF2	MF5
Control Mode	DC 010V	DC 010V	420mA
Working Field	DC 010V	DC 210V	420mA
Feedback	DC 010V	DC 210V	DC 210V

Electric diagram



Power supply	AC/DC 24V 50/60 Hz
Nominal voltage range	AC 24V±20%V DC 24V+20% -10%
Power consumption: running	4,0 W
At rest	1,5 W
Sizing	7,0 VA

Attention:

Only with MFT multifunction technology : Running time motor 35 s adjustable Control DC 0...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)

NOTE:		
-	Read the note about the use and torque	
	requirements of the damper manufacturer	
-	All electrical wirings must be according to	
	local standards.	

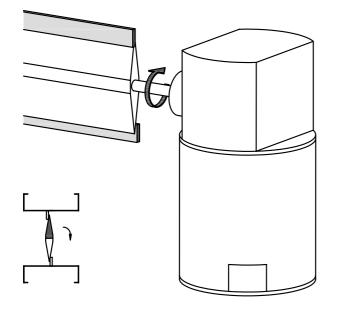
- Electrical connections by power off only.
- EEx e junction box must not be opened under any circumstances when the power is on.
- Actuator cable must be installed in a fixed position and protected against damage.
- Avoid excessive vibrations.
- Before switching-on, check that no other equipment is 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.



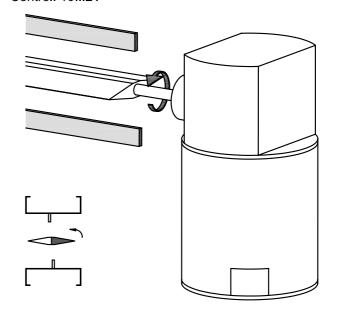
Rotary Direction "R" For Damper normally closed N.C.

MOTOR

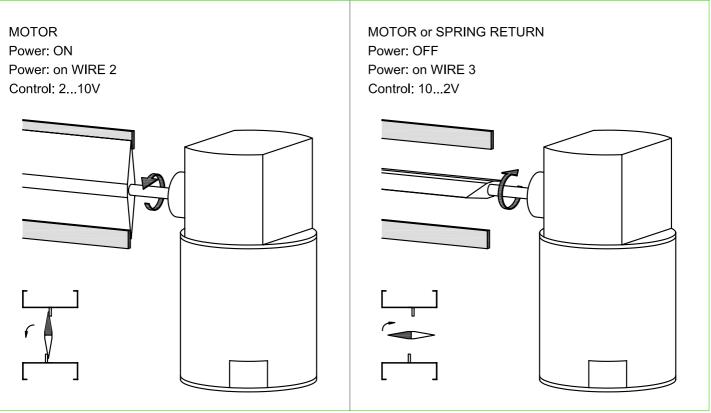
Power: ON Power: on WIRE 2 Control: 2...10V



MOTOR or SPRING RETURN Power: OFF Power: on WIRE 3 Control: 10...2V



Rotary Direction "L" For Damper normally closed N.C.

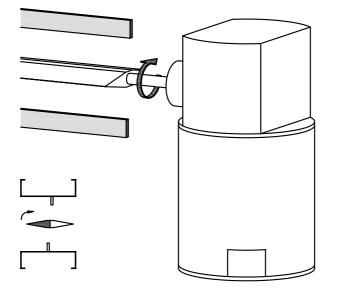




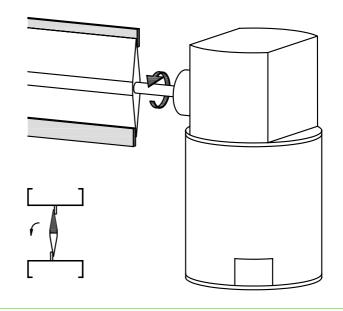
Rotary Direction "R" For Damper normally open N.O.

MOTOR

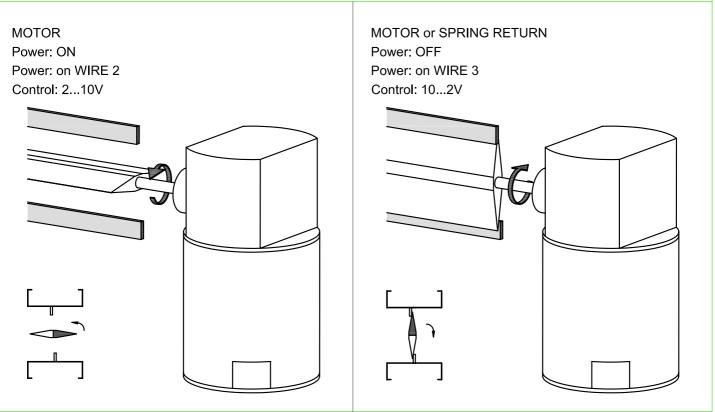
Power: ON Power: on WIRE 2 Control: 2...10V



MOTOR or SPRING RETURN Power: OFF Power: on WIRE 3 Control: 10...2V



Rotary Direction "L" For Damper normally open N.O.



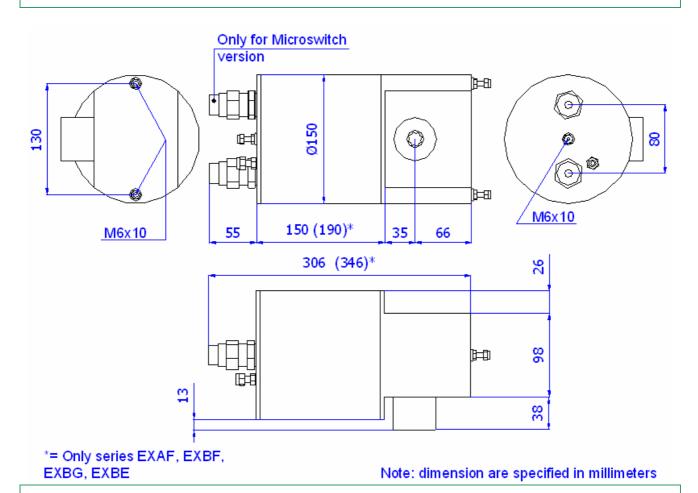


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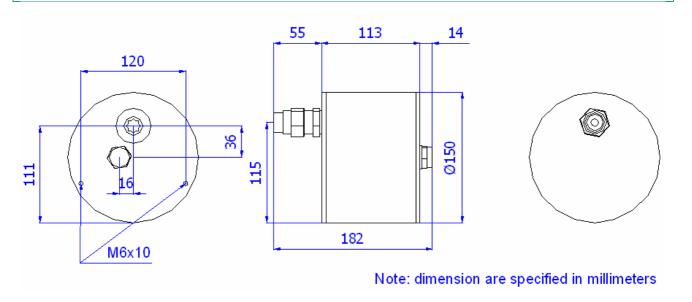
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Dimensions and Mounting instructions

EXAF - EXBF - EXBE - EXBG - EXSM - EXAM



EXNM





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