



Actuators

Electrical Explosion Proof actuators

Catalogue 2008

Series EXNM – mod- QUICK VERSION

- ✚ *No spring return*
- ✚ *Running time 4 sec.*
- ✚ *8 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 air control Damper in ventilation and air condition system up to approx 1.5m².

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 and can be mechanically stopped in any position. 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 Switches
EXNM Q B MF2 0 L 000	NMQ24A-MF	None
EXNM Q B MF2 0 R 000		
EXNM Q B MF2 2 L 000	NMQ24A-MF	2xSPDT
EXNM Q B MF2 2 R 000		

Several Junction Boxes available, see pages 37 or 38 on "Edelweiss catalogue 2008"

For ROTARY direction see page 42 or 43 on "Edelweiss catalogue 2008"

Options available on request:

- Different angle of rotation
- Different wiring length



EEx d IIC T6

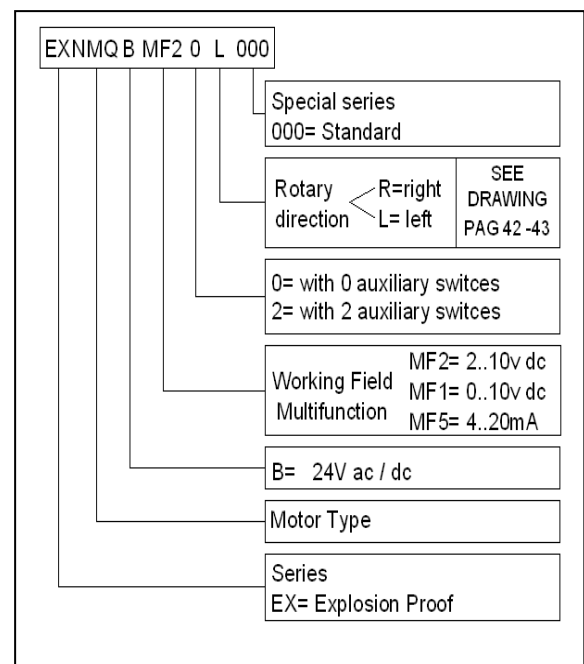
CENELEC
EN 50014/50018
Approvato CESI
EX-99.E.059

CE

NEMKO 0470
03ATEX1242

Ex II 2GD EEx d IIC T6
For zone 1, 2, 21, 22

The product may be differ from the illustration





Actuators

Electrical Explosion Proof actuators

Catalogue 2008

Series EXNM – mod – QUICK VERSION

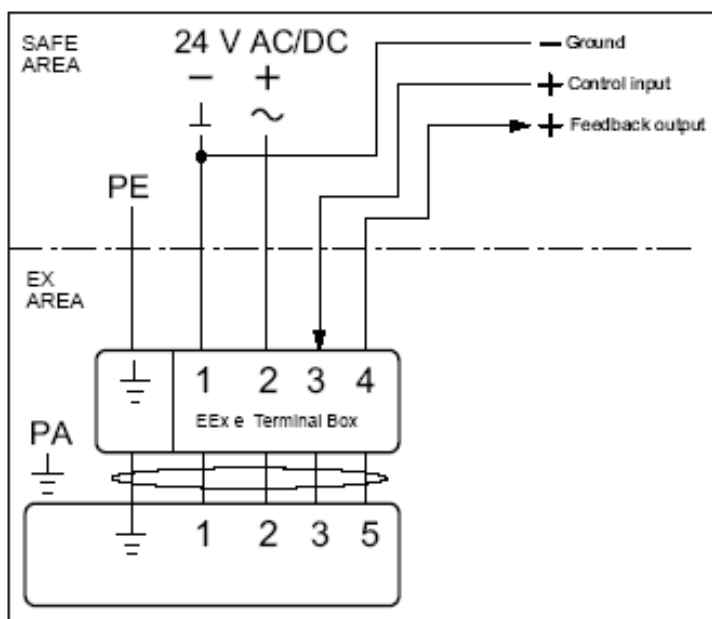
Technical data			
Torque	8 Nm	Power supply	AC/DC 24V 50/60 Hz
Control Mode	see table below	Nominal voltage range	AC 24V±20%V DC 24V+20% -10%
Working Field	see table below	Power consumption: running	12,0 W
Feedback	see table below	At rest	1,5 W
Angle of rotation	95°	Sizing	18,0 VA
Running time	4 Sec.		
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			
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		

Attention:

Only with MFT multifunction technology :
 Running time motor adjustable 4-20 sec
 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)

Table	MF1	MF2	MF1
Control Mode	DC 0...10V	DC 0...10V	DC 4...20mA
Working Field	DC 0...10V	DC 2...10V	DC 4...20mA
Feedback	DC 0...10V	DC 2...10V	DC 2...10V

Electric diagram



NOTE:

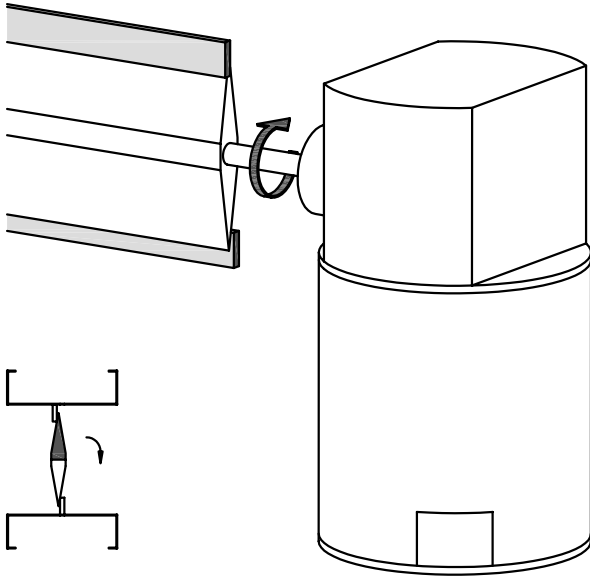
- Read the note about the use and torque requirements of the damper manufacturer
- All electrical wirings must be according to local standards.
- Electrical connections by power off only.
- EEx e junction box must not be opened under any circumstances when the power is on.
- Actuator cable must be installed 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.



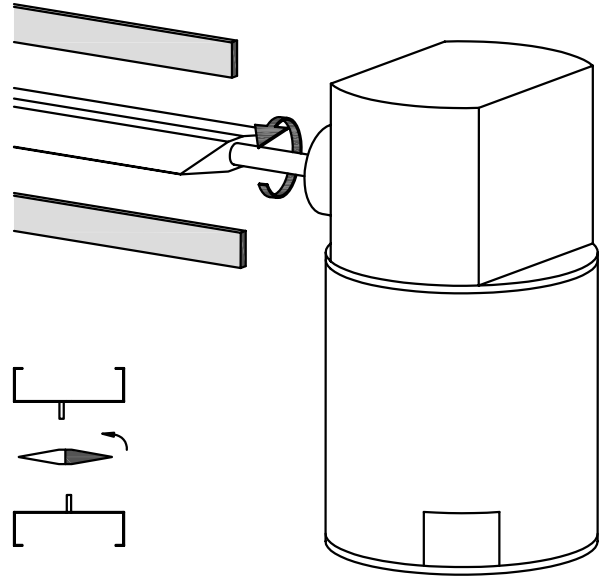
Actuators

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

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

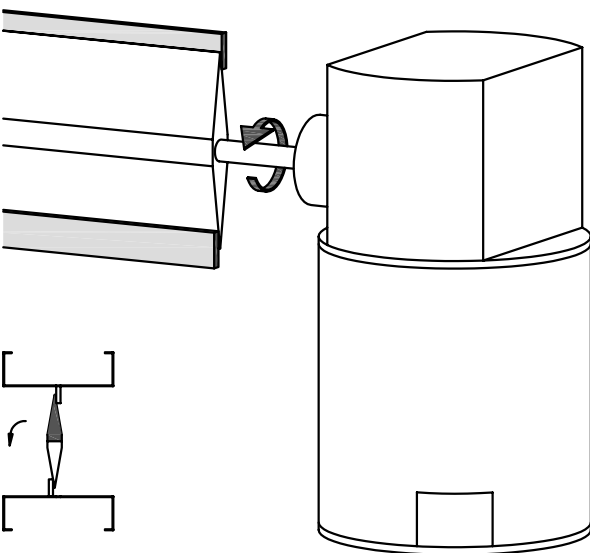


MOTOR or SPRING RETURN
Power: OFF
Power: on WIRE 3
Control: 10...2V

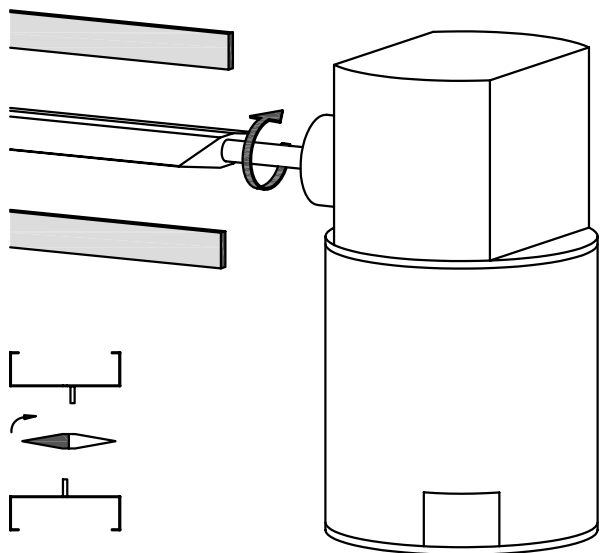


Rotary Direction "L" For Damper normally closed N.C.

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



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

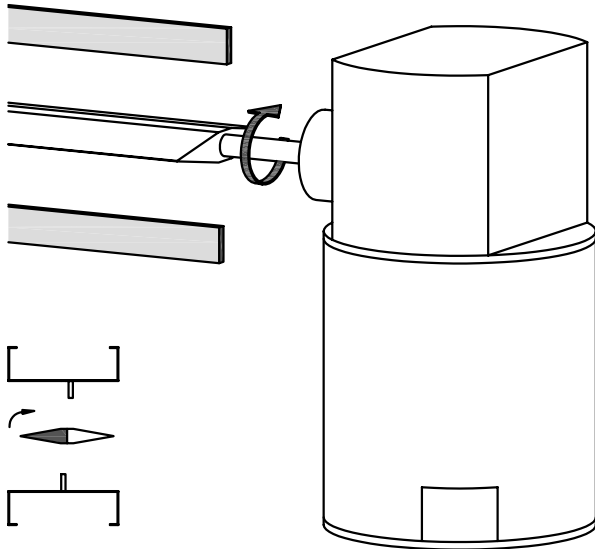




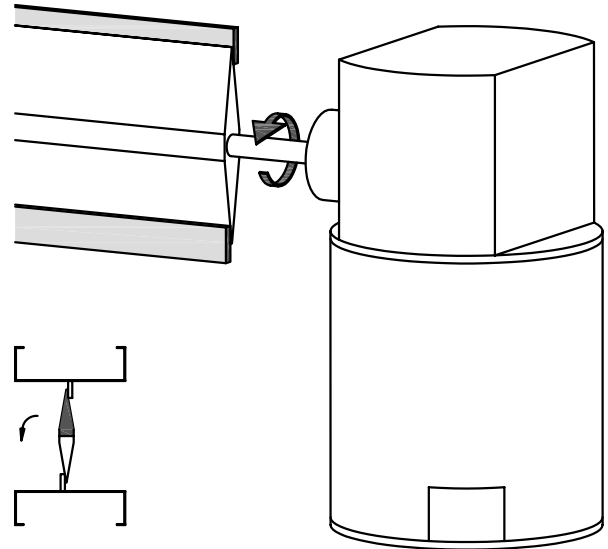
Actuators

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

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

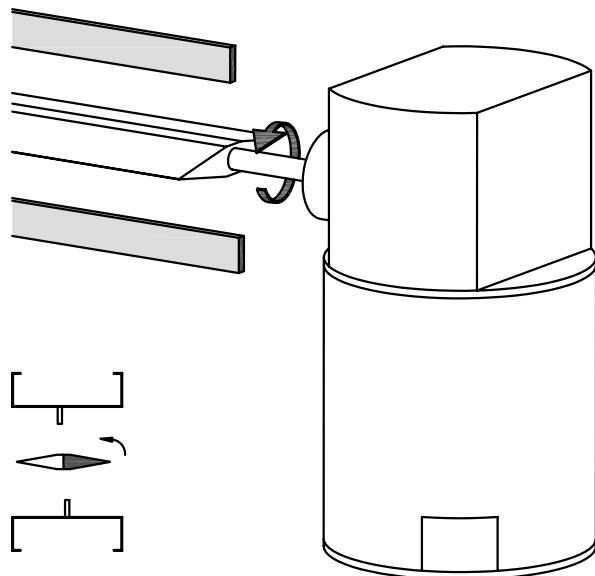


MOTOR or SPRING RETURN
Power: OFF
Power: on WIRE 3
Control: 10...2V

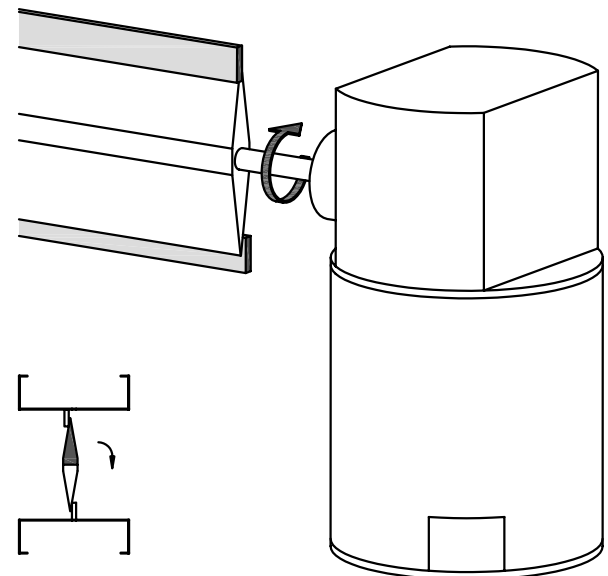


Rotary Direction "L" For Damper normally open N.O.

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



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





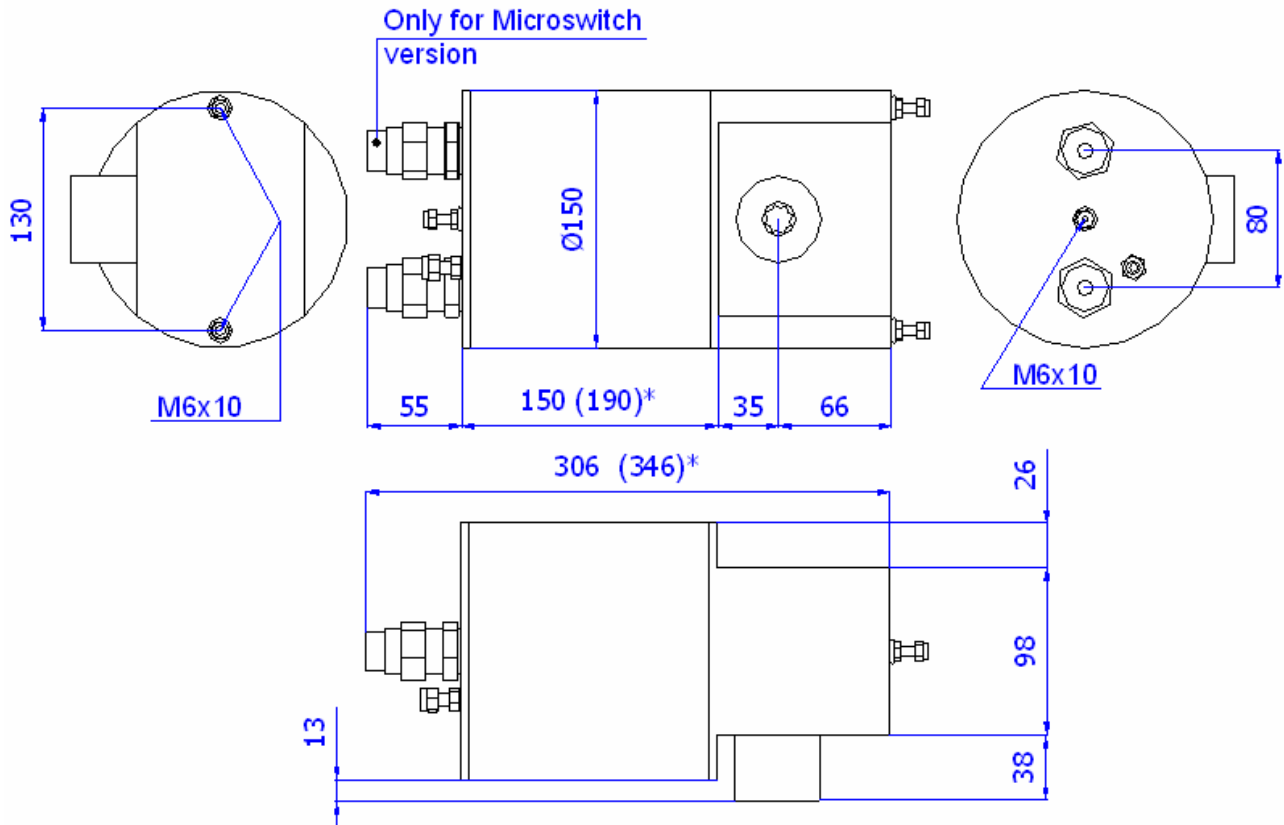
Actuators

Electrical Explosion Proof actuators

Catalogue 2008

Dimensions and Mounting instructions

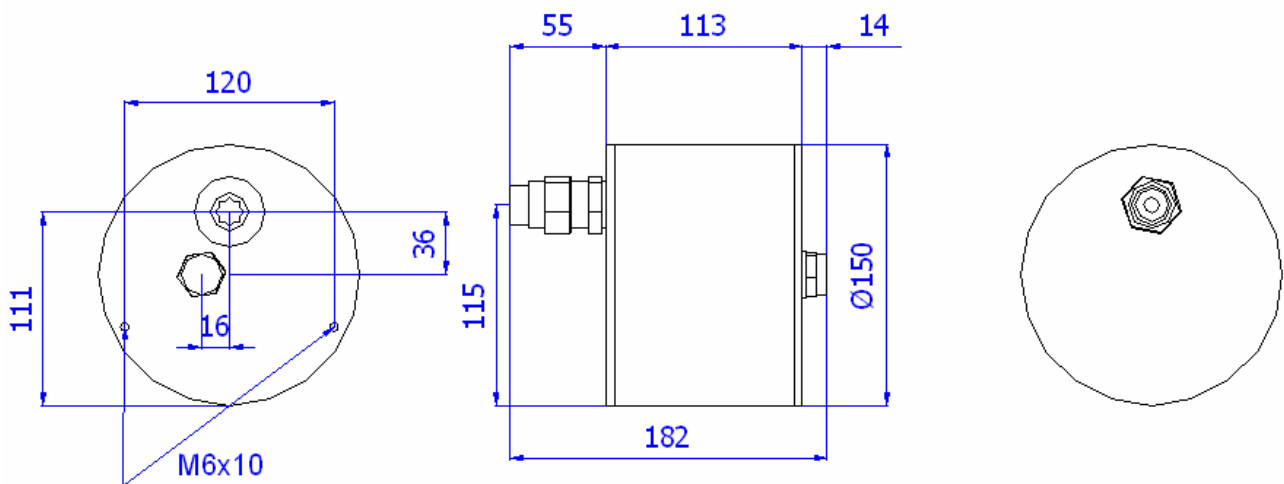
EXAF - EXBF - EXBE - EXBG - EXSM - EXAM



*= Only series EXAF, EXBF, EXBG, EXBE

Note: dimension are specified in millimeters

EXNM



Note: dimension are specified in millimeters



Actuators

Electrical Explosion Proof actuators

Catalogue 2008

Mounting instructions

EXAF - EXBF - EXBE - EXBG – EXSM - EXAM

Direct mount on square shaft, 12 x 12 mm

