

EDELWEISS Actuators

Electrical Explosion Proof actuators

Catalogue/price list 2012

Series EXNMC – Modulating

-  **No spring return**
-  **Running time 35 sec**
-  **10 NM**
-  **Working field 4...20mA**
-  **Power supply 24V AC, 24V DC**
-  **In according to EN 60079-0, EN60079-1, EN 60079-31**
-  **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 conditioning 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 will travel to its starting position.

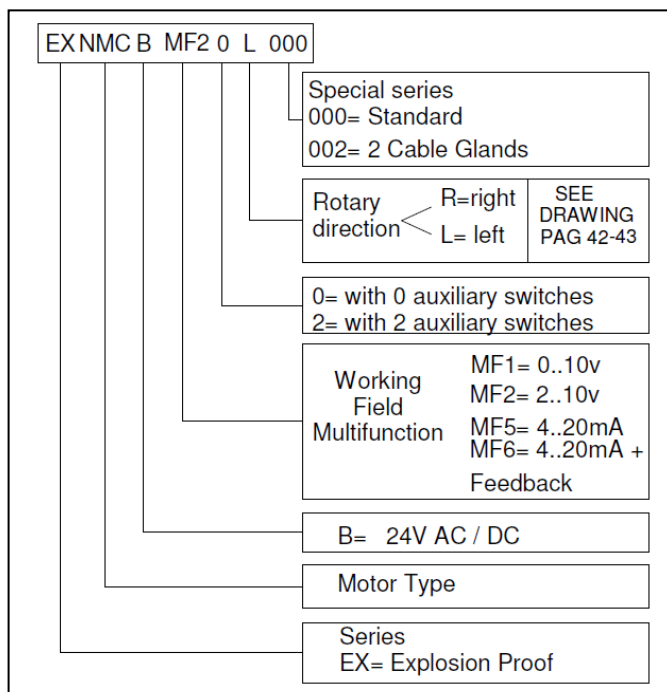
The actuator is overload protected. The actuator can be mounted directly on the damper shaft if square, 12 x 12 mm or 10 x 10 mm (adaptor included); Several mounting brackets are available for applications where the actuator cannot be directly coupled to the damper shaft. The cable glands are fit for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

Products range

ITEM	Belimo type	Auxiliary Switch
EXNM C B MF6 0 L 002	NMC24A-MF	0

Options available on request:

Different angle of rotation



Electrical Explosion Proof actuators

Different wiring length

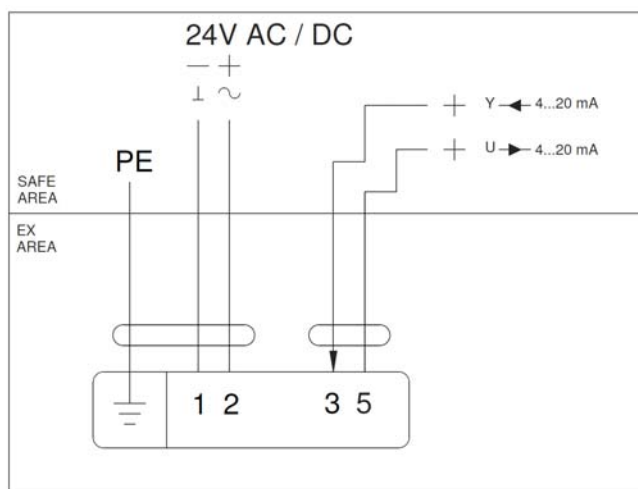
Catalogue/price list 2012

Series EXNMC – Modulating

Technical data			
Torque	10 Nm	Power supply	AC 24V 50/60 Hz, DC 24V
Control Mode	see table below	Nominal voltage range	AC 19,2...28,8 V DC 21.6...28.8 V
Working Field	see table below	Power consumption: running	4,0 W
Feedback	see table below	At rest	1,5 W
Angle of rotation	95°	Sizing	7,0 VA
Running time	35 Sec.	Attention: Only with MFT multifunction technology : Running time motor 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)	
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	5.5 Kg		
Auxiliary switches	none		
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		

Table	MF1	MF2	MF5	MF6
Control Mode	DC 0...10V	DC 0...10V	4...20mA	4...20mA
Working Field	DC 0...10V	DC 2...10V	4...20mA	4...20mA
Feedback	DC 0...10V	DC 2...10V	DC 2...10V	4...20mA

Electric diagram control mode MF6 with two cable glands



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

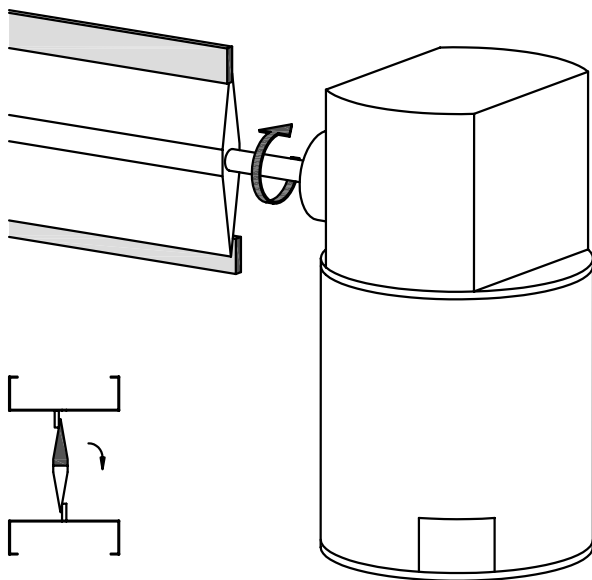
Rotary Direction "R" For Damper normally closed N.C.

MOTOR

Power: ON

Power: on WIRE 2

Control: 2...10V

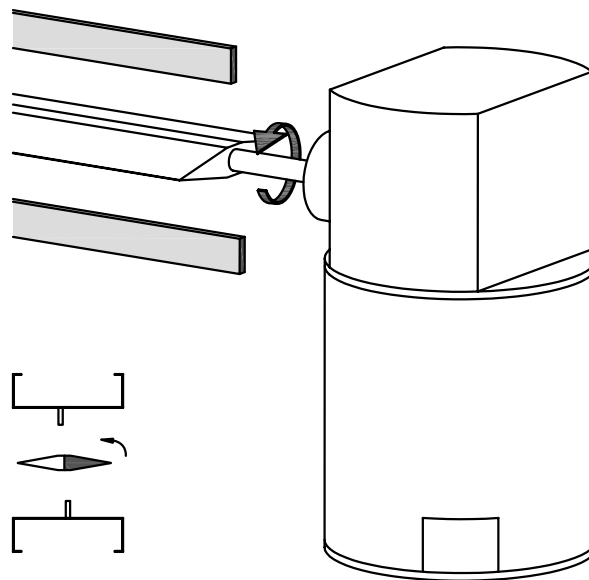


MOTOR or SPRING RETURN

Power: OFF

Power: on WIRE 3

Control: 10...2V



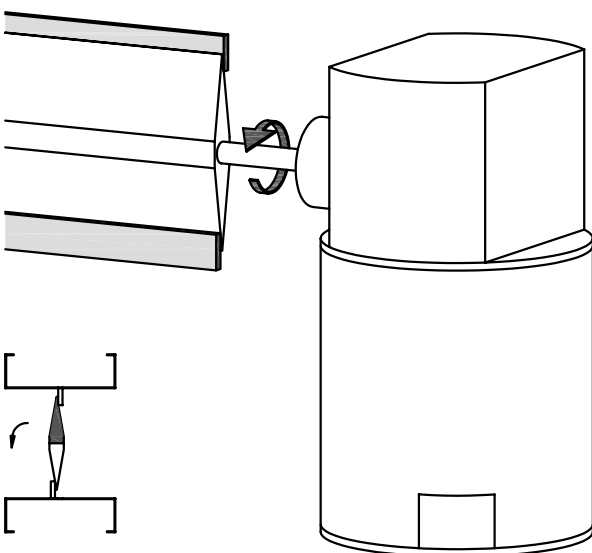
Rotary Direction "L" For Damper normally closed N.C.

MOTOR

Power: ON

Power: on WIRE 2

Control: 2...10V

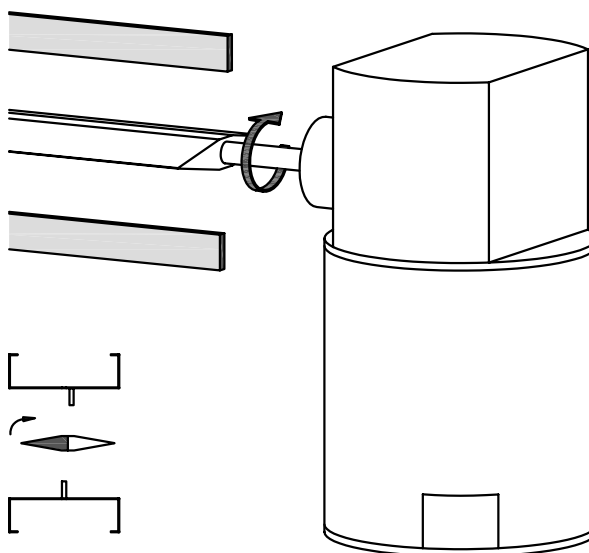


MOTOR or SPRING RETURN

Power: OFF

Power: on WIRE 3

Control: 10...2V



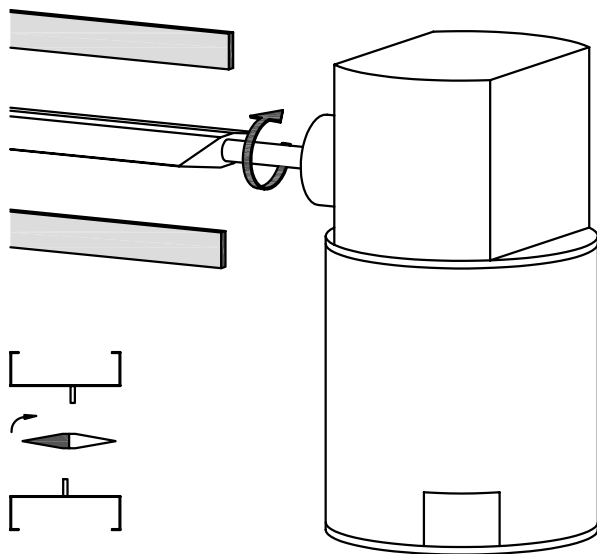
Rotary Direction "R" For Damper normally open N.O.

MOTOR

Power: ON

Power: on WIRE 2

Control: 2...10V

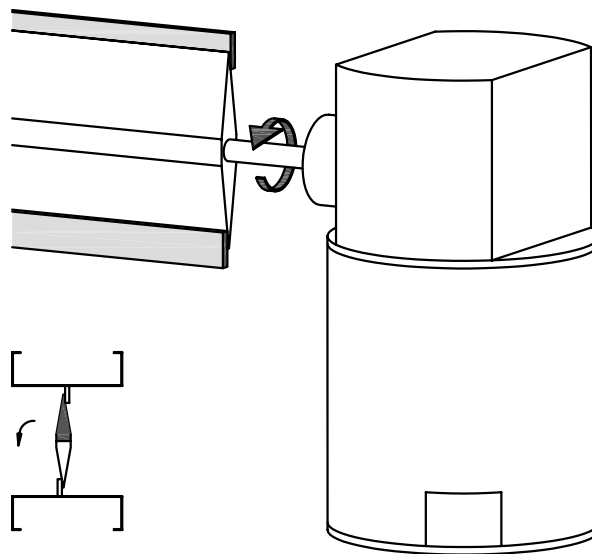


MOTOR or SPRING RETURN

Power: OFF

Power: on WIRE 3

Control: 10...2V



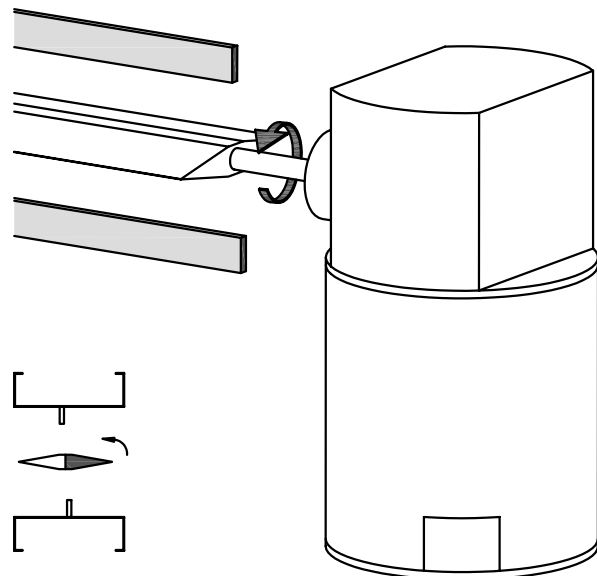
Rotary Direction "L" For Damper normally open N.O.

MOTOR

Power: ON

Power: on WIRE 2

Control: 2...10V

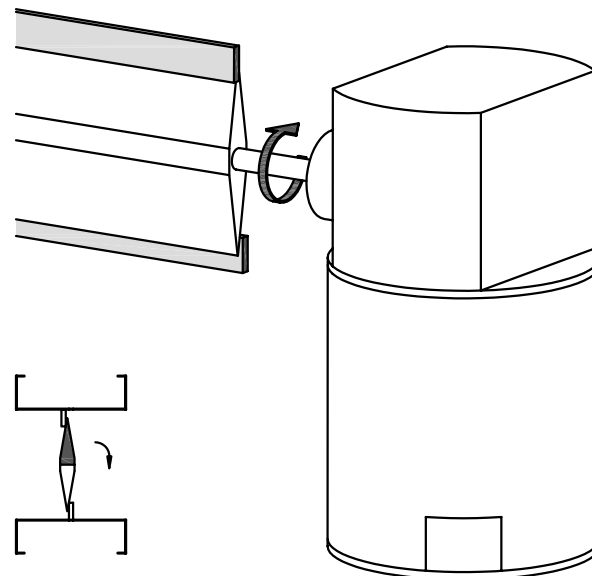


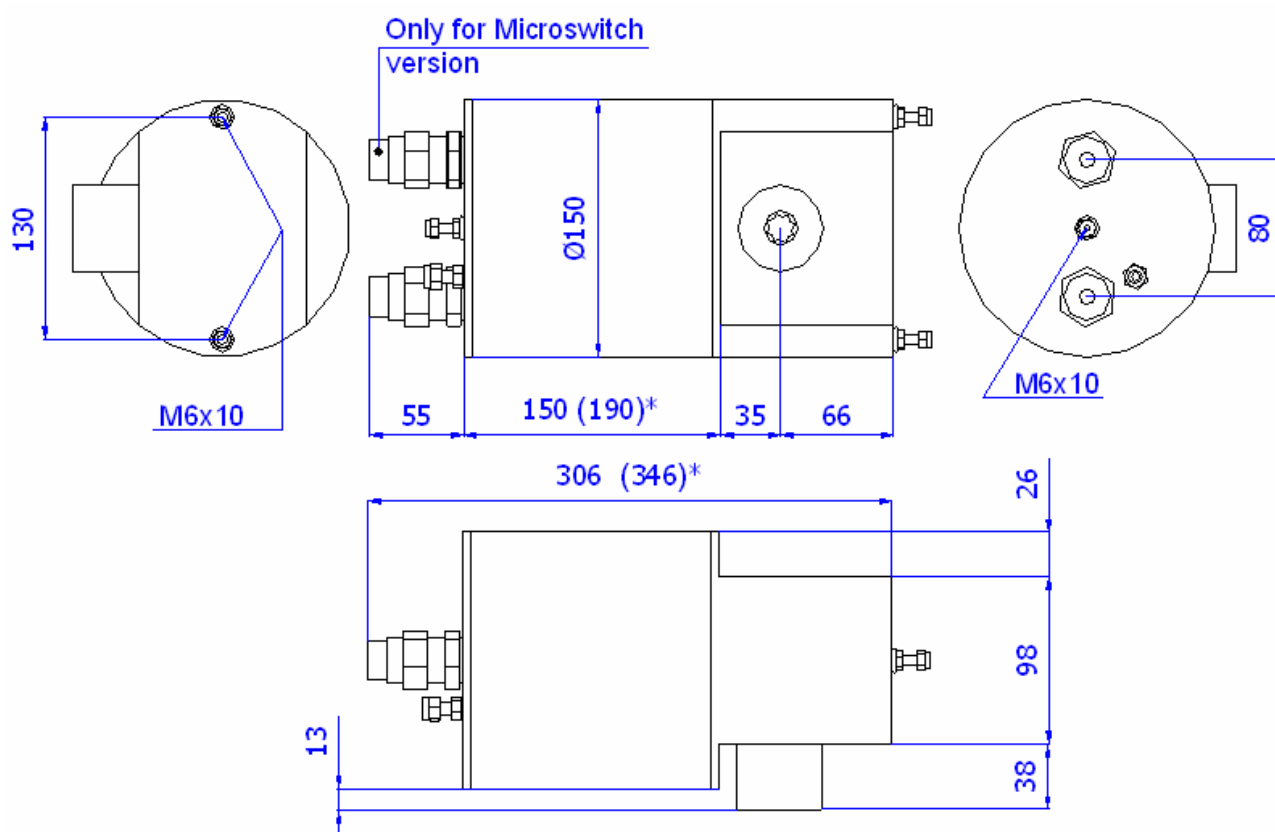
MOTOR or SPRING RETURN

Power: OFF

Power: on WIRE 3

Control: 10...2V

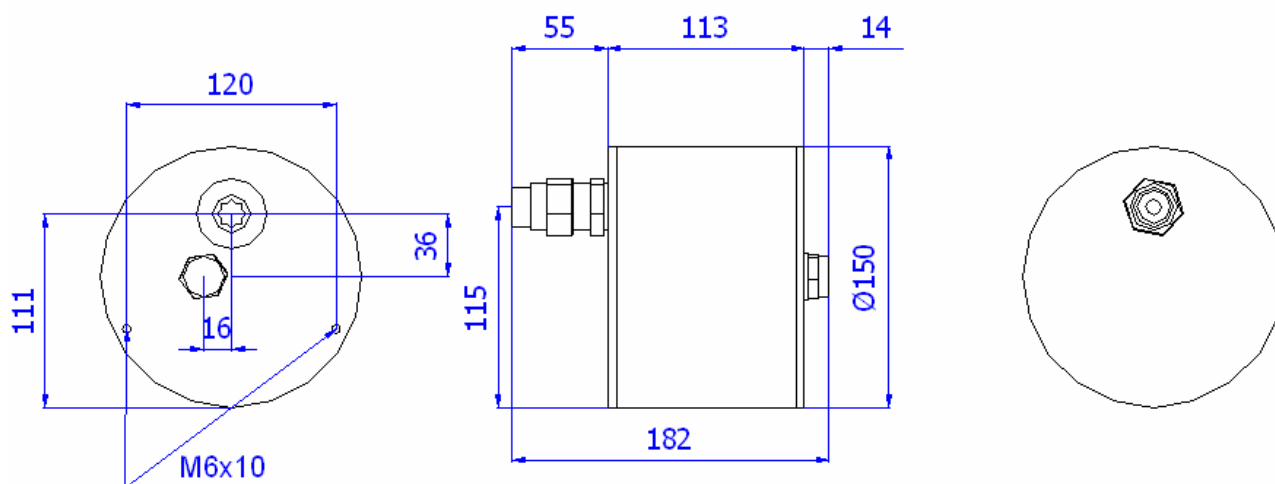




*= Only series EXAF, EXBF, EXBG, EXBE

Note: dimension are specified in millimeters

EXNM



Note: dimension are specified in millimeters

EDELWEISS *Actuators*

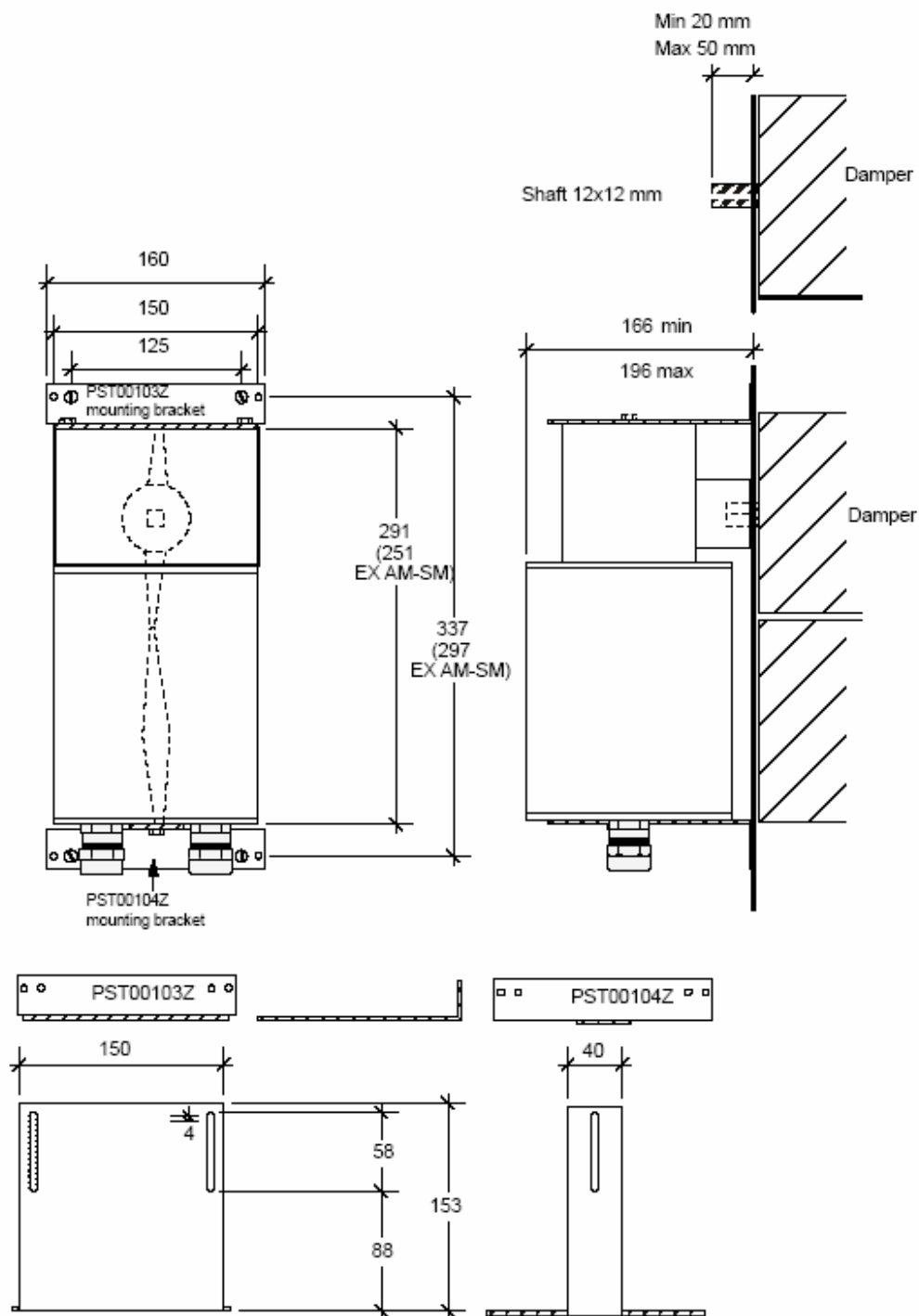
Electrical Explosion Proof actuators

Catalogue 2012

Dimensions and Mounting instructions

EXAF - EXBF - EXBE - EXBG – EXSM - EXAM - EXNMC - EXNMQ

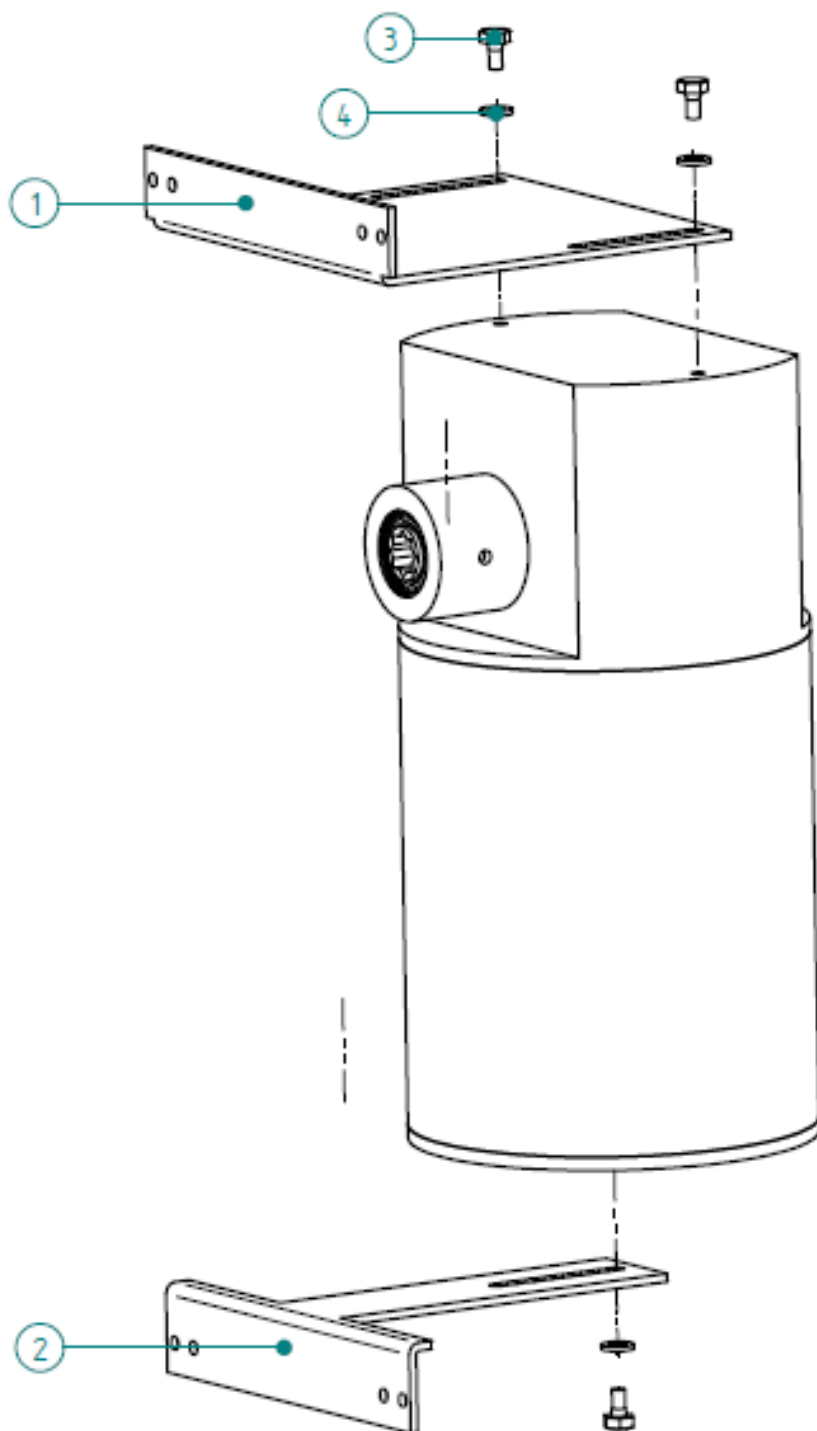
Direct mount on square shaft, 12 x 12 mm



EDELWEISS *Actuators*

Electrical Explosion Proof actuators Dimensions and Mounting instructions

Catalogue 2012



n°	Code-Description
1	PST00103Z
2	PST00104Z
3	TDE M6X10
4	Flat washer

Mount the bracket as shown in the picture above.

Threaded hole depth: 8mm. Do not replace standard screws with other one; or ensure that screws does not penetrate more than 7mm into the enclosure.

Flat washer dimension : Di= 6,4mm De=12mm h=1,6mm