

EDELWEISS Actuators

Electrical Explosion Proof actuators

Catalogue 2012

Series EXAF – on/off

- ✚ *Power supply Multivolt from 24V to 230V
AC 50/60 Hz or 24V to 125V DC*
- ✚ *Control ON/OFF – 1 wire*
- ✚ *Motor torque: 20 Nm*
- ✚ *Spring Return torque: 20 Nm*
- ✚ *Spring running time $\pm$ 20 sec.*
- ✚ *Power supply 230V ac, 24V ac, 24V dc*
- ✚ *In according to EN 60079-0, EN60079-1,
EN 60079-31*
- ✚ *Zones 1, 2, 21, 22*



0948

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

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 4 m²

Features

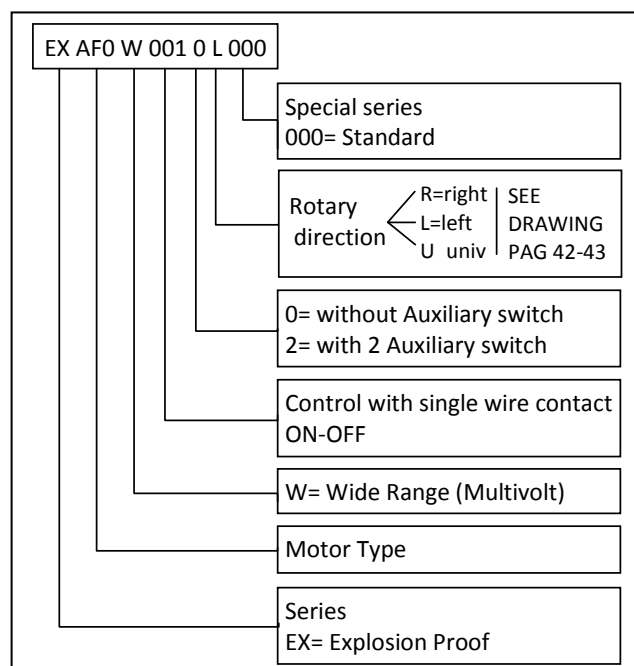
The actuator moves the damper to its working position while tensioning the spring return until it is powered. If the power supply is interrupted the spring moves the damper back to its safe position. The actuator is overload protected. The actuator can be mounted directly on the damper shaft if square, 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 Switches
EXAF 0 W 001 0 L 000	SFA	None
EXAF 0 W 001 0 R 000		
EXAF 0 W 001 0 U 000		
EXAF 0 W 001 2 L 000	SFA-S2	2 x SPDT
EXAF 0 W 001 2 R 000		
EXAF 0 W 001 2 U 000		

Options available on request:

Different angle of rotation
Different wiring length



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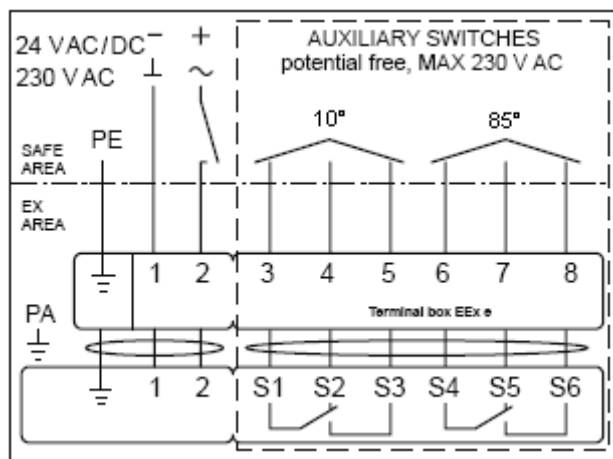
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Technical data	
Torque	20 Nm
Control Mode	ON/OFF 1 wire
Rotation angle	95°
Running time: motor	75 Sec
Running time: spring return	± 20 sec.
Ambient temperature	-20°C + 50°C
Auxiliary micro switches	1mA..3 (0,5)A max 250V ac Switching point at 10° and 85°
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

Technical data	
EXAF W Version	
Power supply	24..240V AC ±10% 50/60Hz
	24..125V DC ±10%
Power consumption: running	7,0 W
	At rest 3,5 W
Sizing	18 VA

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 you supplier.

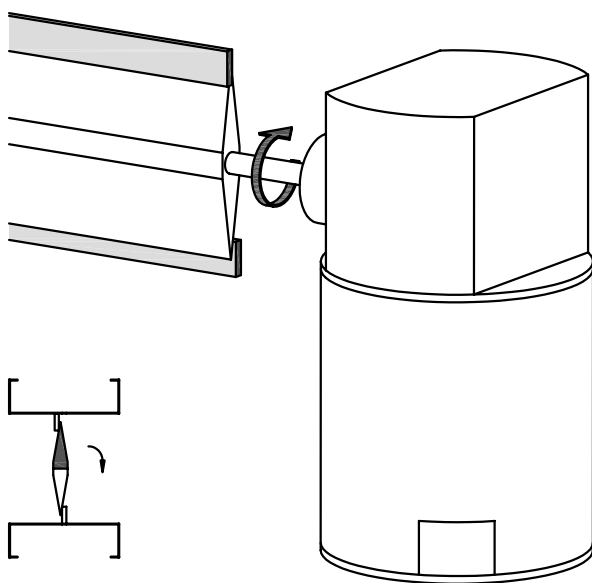
Rotary Direction "R" For Damper normally closed N.C.

MOTOR

Power: ON

Power: on WIRE 2

Control: 2...10V

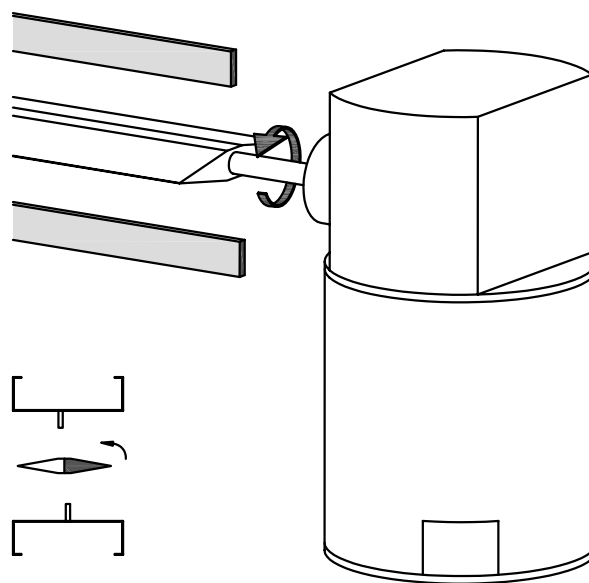


MOTOR or SPRING RETURN

Power: OFF

Power: on WIRE 3

Control: 10...2V



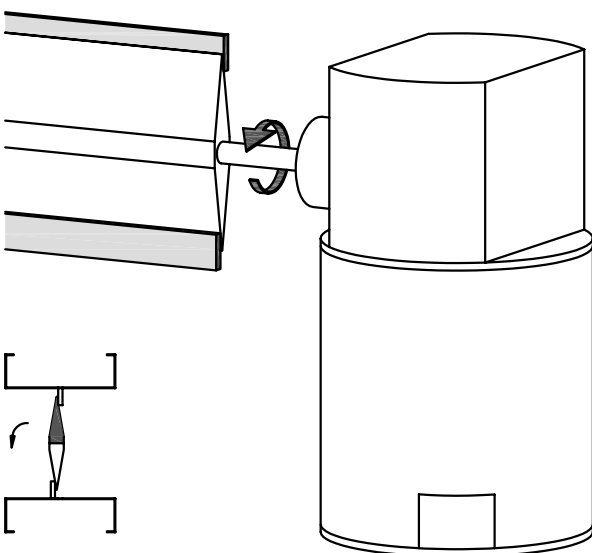
Rotary Direction "L" For Damper normally closed N.C.

MOTOR

Power: ON

Power: on WIRE 2

Control: 2...10V

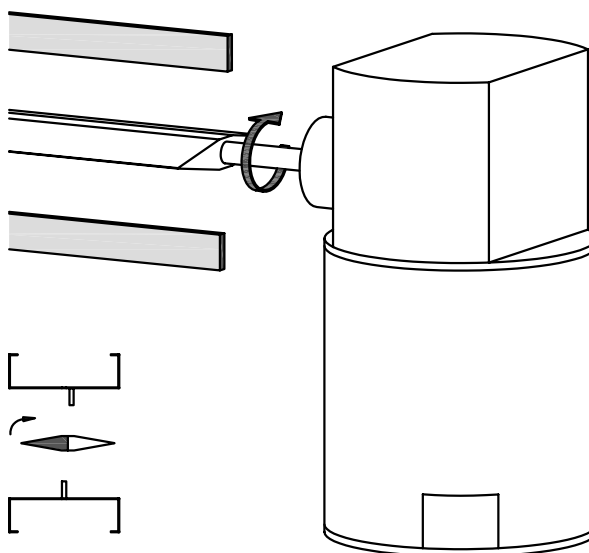


MOTOR or SPRING RETURN

Power: OFF

Power: on WIRE 3

Control: 10...2V



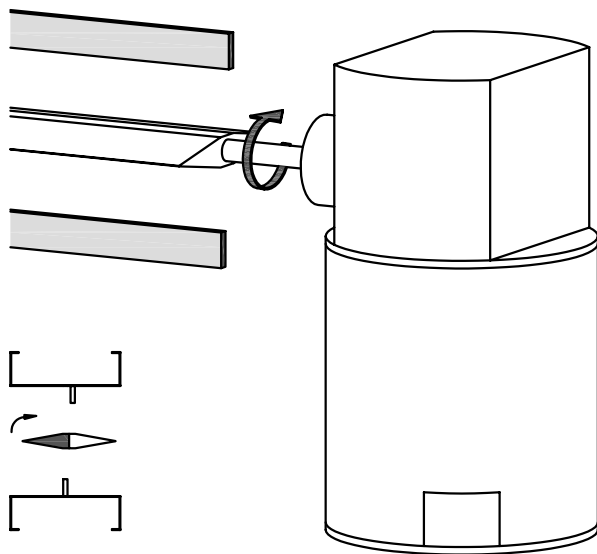
Rotary Direction "R" For Damper normally open N.O.

MOTOR

Power: ON

Power: on WIRE 2

Control: 2...10V

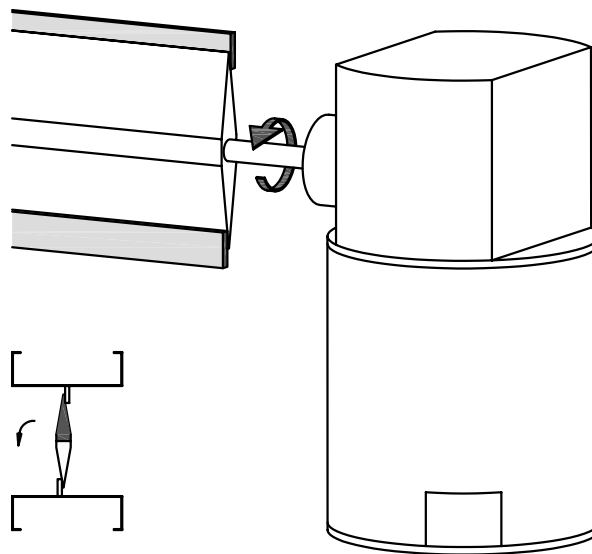


MOTOR or SPRING RETURN

Power: OFF

Power: on WIRE 3

Control: 10...2V



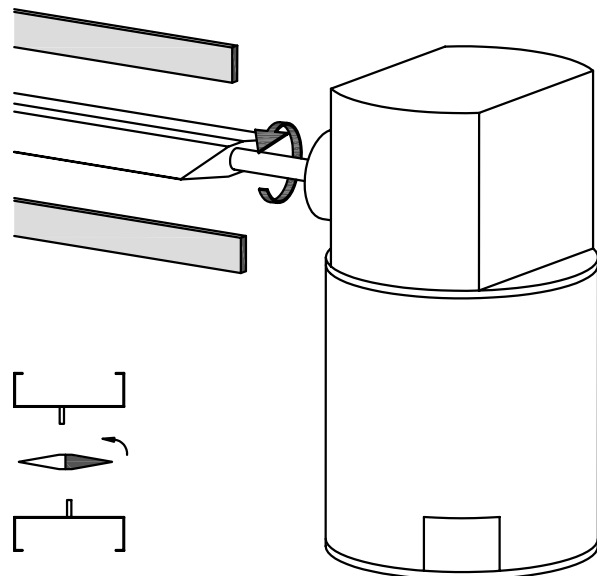
Rotary Direction "L" For Damper normally open N.O.

MOTOR

Power: ON

Power: on WIRE 2

Control: 2...10V

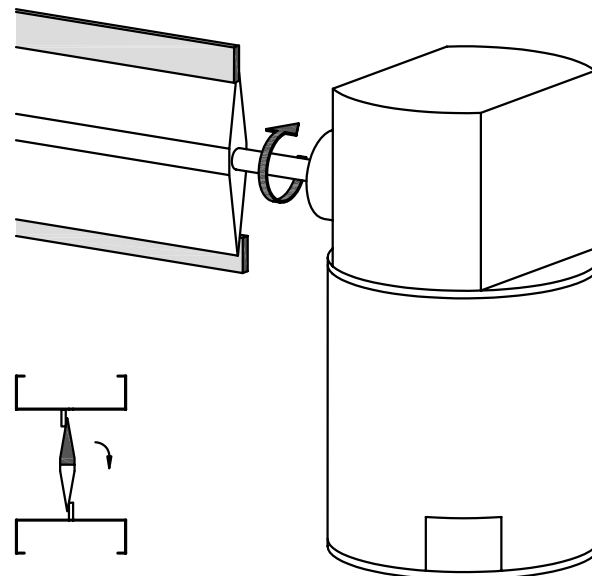


MOTOR or SPRING RETURN

Power: OFF

Power: on WIRE 3

Control: 10...2V



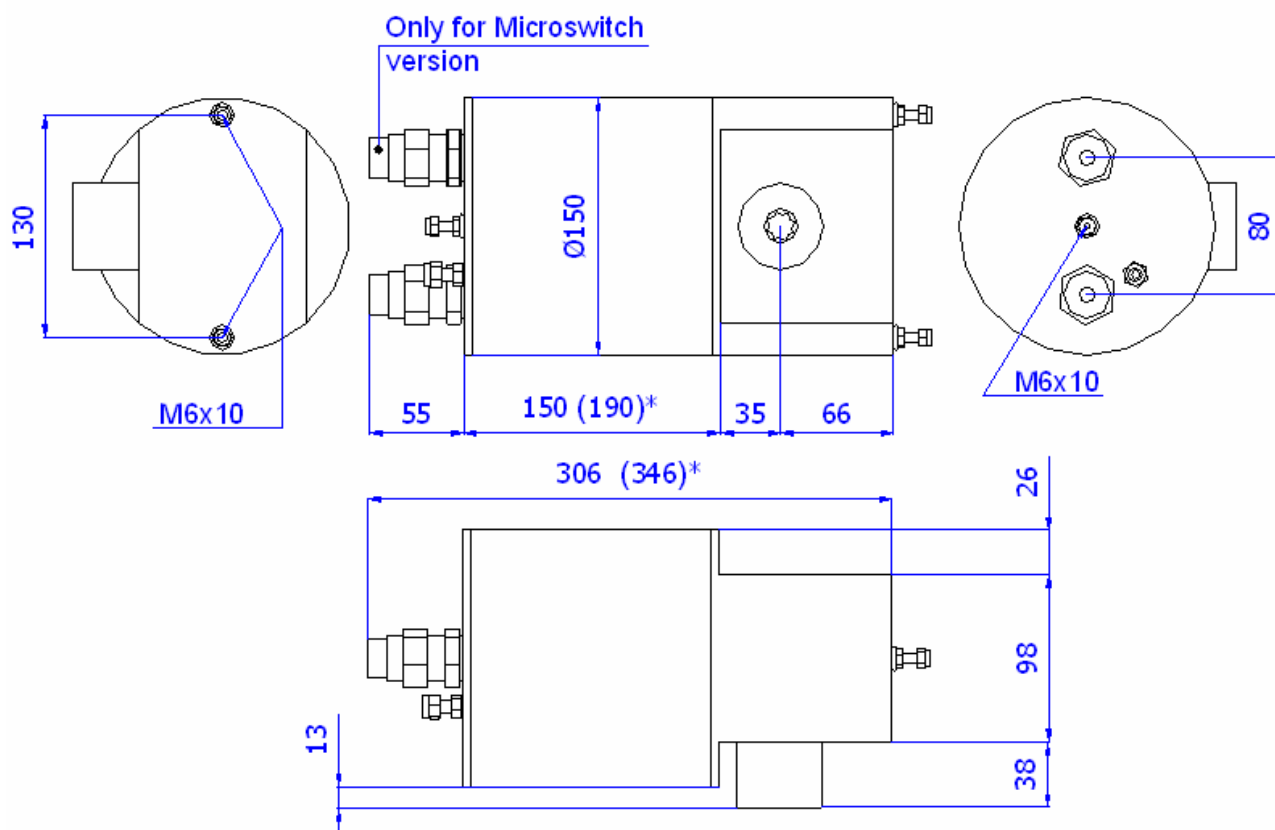
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Dimensions and Mounting instructions

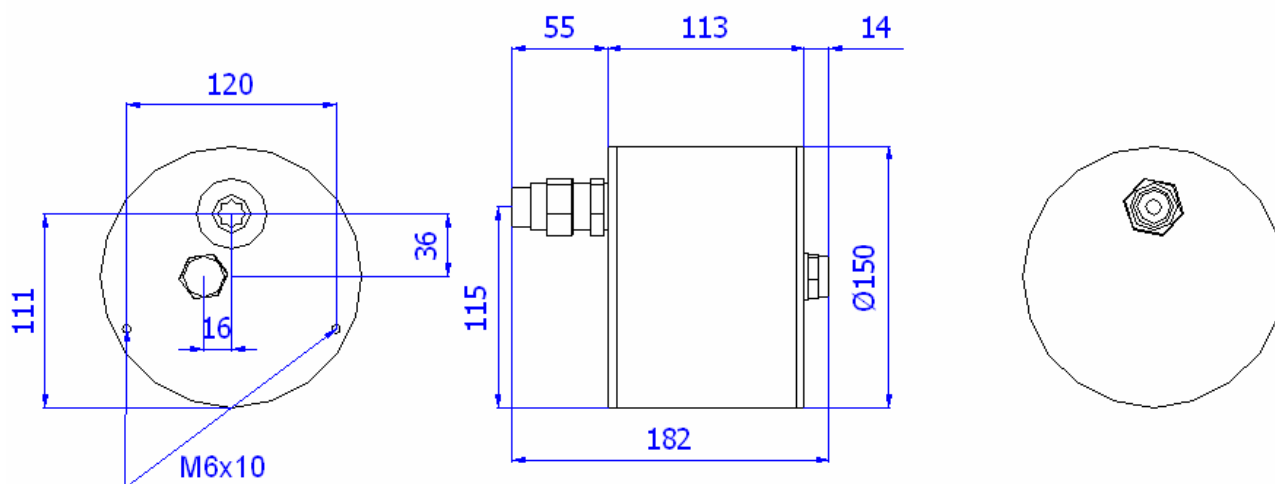
EXAF - EXBF - EXBE - EXBG - EXSM - EXAM



*= Only series EXAF, EXBF, EXBG, EXBE

Note: dimension are specified in millimeters

EXNM



Note: dimension are specified in millimeters

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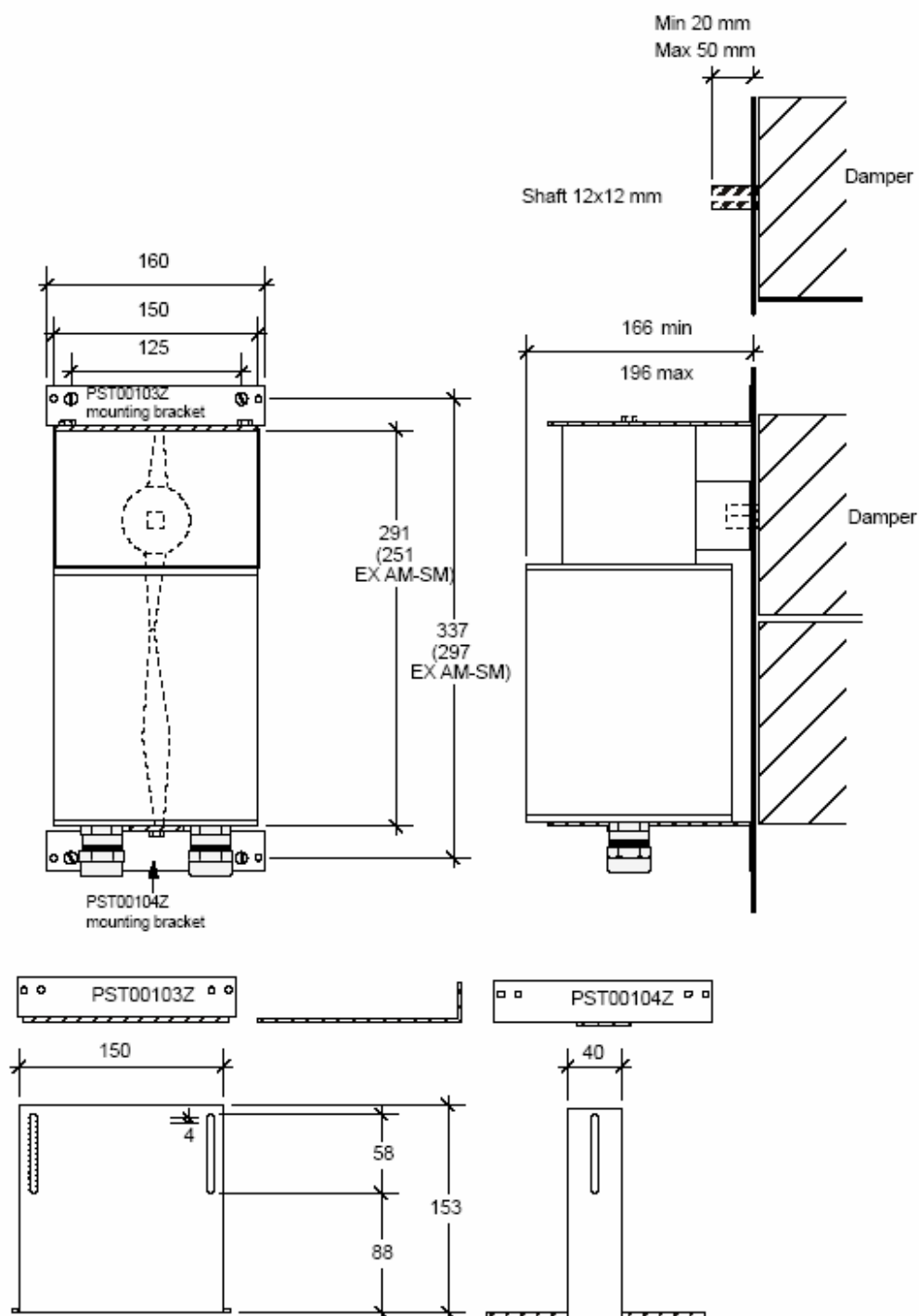
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EXAF - EXBF - EXBE - EXBG – EXSM - EXAM

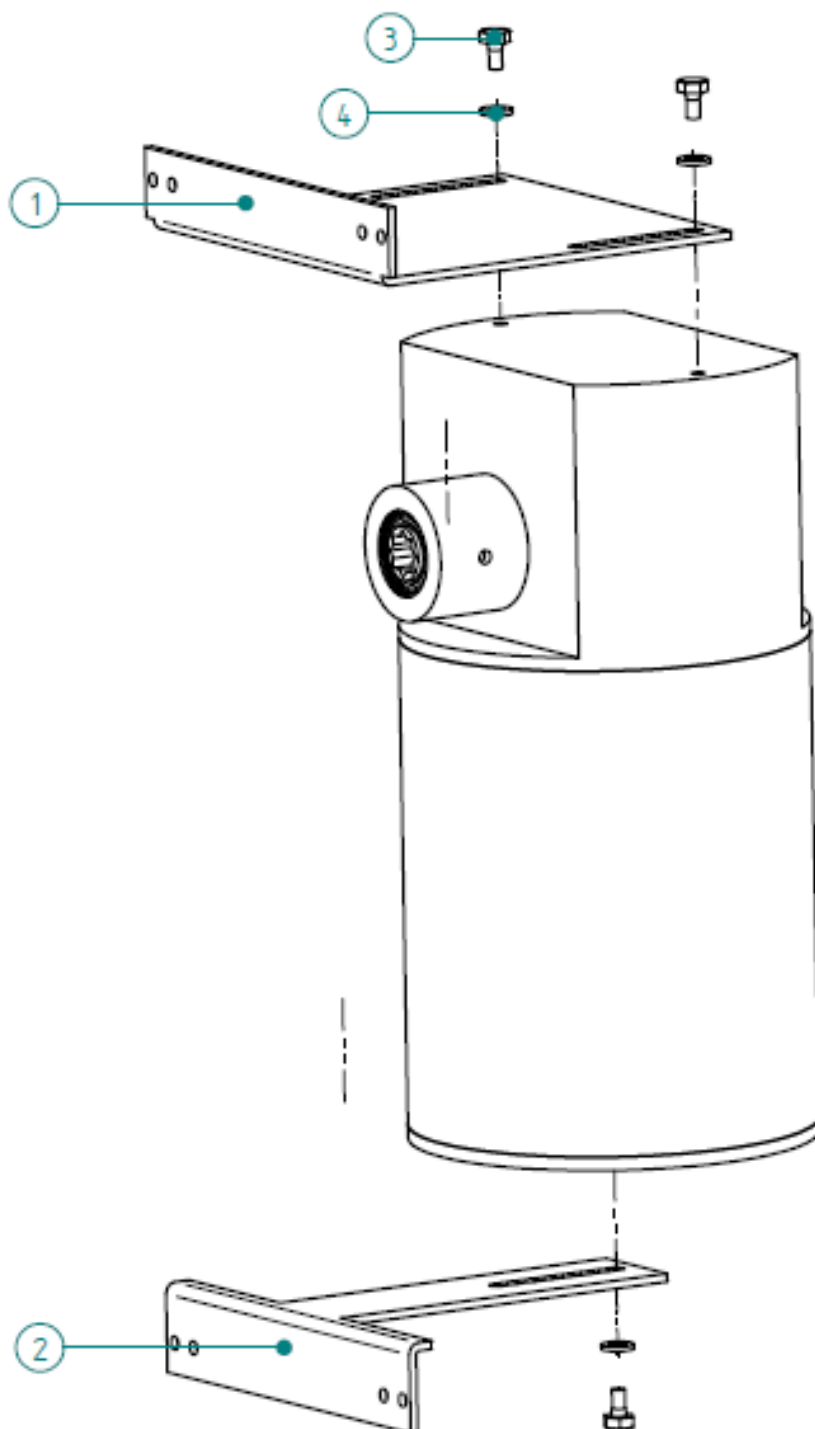
Direct mount on square shaft, 12 x 12 mm



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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