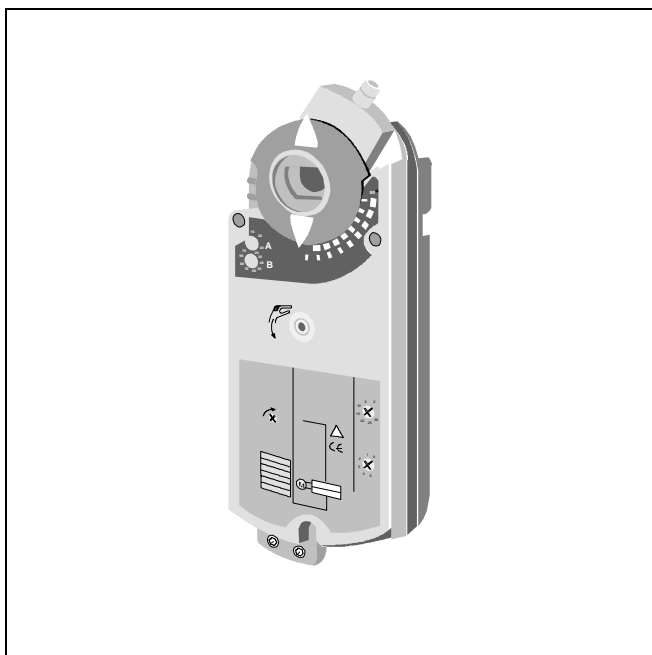


ML4195E/8195E

Spring Return Damper Actuators 16Nm for On / Off - Control

SPECIFICATION DATA



FEATURES

- Bi-directional fail-safe spring return
- Self centering shaft coupling
- Mounting directly on round and square damper shafts
- Manual override
- High visible position indicator
- Dual point mounting (see accessories)
- Dual adjustable auxiliary switches
- Metal housing

SPECIFICATIONS

Supply voltage	24V / 230V; 50/60Hz
Power consumption:	8VA (24Vac); 9VA (230Vac)
Ambient operating limits	-32 to +55°C
Ambient storage limits	-32 to +70°C
Relative Humidity	5 to 95%, non condensing
Mounting	
standard hub insert	
round damper shafts:	8 to 26mm
square damper shafts:	6 to 18mm
minimum length:	20mm
Noise Rating:	45dB(A) max.
Auxiliary switches A and B	
rating	2A
switch points	0...90°, adjustable
adjustment steps	5°
Torque rating:	16Nm
Running time @ 50Hz	
90° Stroke:	90s
Spring Return:	15s
Stroke:	90°
Protection standard:	IP54 per EN60529
Electromagnetic compatibility	EN50081-1 / EN50081
Housing:	aluminium diecast
Dimensions:	see Fig. 2.
Weight:	2.2kg

GENERAL

These spring return damper actuators provide on/off - control for ventilation and air conditioning systems with constant - (CAV) and variable air volume (VAV) to operate:

- Air dampers
- Ventilation flaps
- Louvers
- VAV units

This product meets the requirements of **CE**

OPERATION / FUNCTIONS

Rotary Movement

- 1) Left or right direction of rotation by choosing the right side of the damper actuator body.
- 2) If the power supply switched on, the actuator will be driven toward its fully open position.
- 3) Nominal torque of 16Nm for damper areas up to 3m².

Spring return

- 1) In a section of a ventilation plant, for having a safe closing by spring return in case of power failure. The return spring will turn the actuator back to 0° direction of rotation.
- 2) Preload tension of 5° for a safe closing.

Position indication

The position indicator (Fig. 1., Pos. 3), which is pinned up on the actuator hub, shows the angle of rotation (11).

Manual adjustment

The actuator can be turned in any rotary position by an hexagon socket wrench (in the scope of the equipment) and locked by a screwdriver. To unlock just by screwdriver or connect the actuator with the power supply (24Vac or 230Vac

Limitation of angular rotation

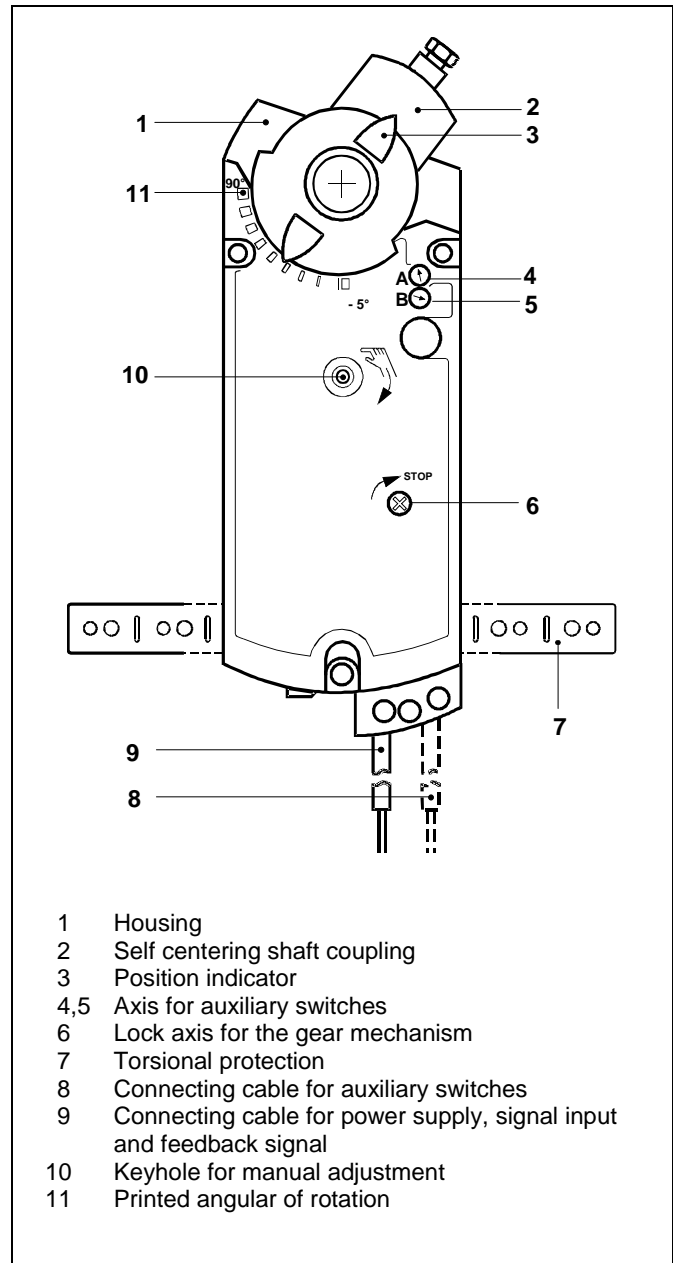
The angular of rotation can be set between 0° and 90° in adjustment steps of 5°.

Auxiliary switches

The switching points of the auxiliary switches A and B can be set independent of each other in the range of the angular of rotation in adjustment steps of 5°.

NOTE

These type of actuators must be ordered with or without auxiliary switches. The integration of these switches afterwards is impossible.



- 1 Housing
- 2 Self centering shaft coupling
- 3 Position indicator
- 4,5 Axis for auxiliary switches
- 6 Lock axis for the gear mechanism
- 7 Torsional protection
- 8 Connecting cable for auxiliary switches
- 9 Connecting cable for power supply, signal input and feedback signal
- 10 Keyhole for manual adjustment
- 11 Printed angular of rotation

Fig. 1. Setting units and control elements

Type range

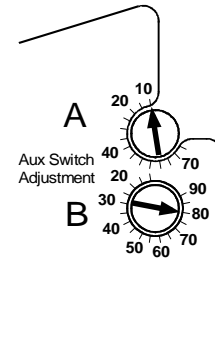
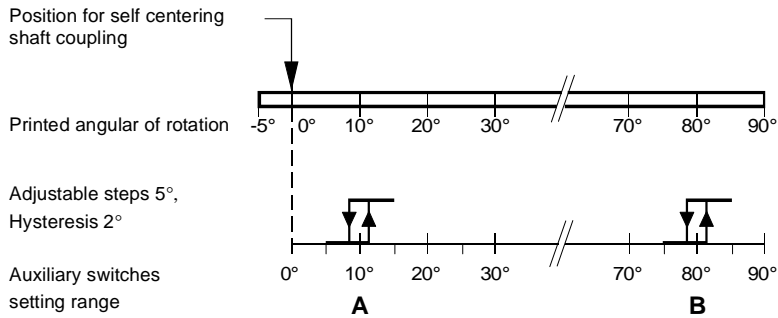
Order Number	Control Signal	Supply Voltage	Cable length	Auxiliary switches
ML4195E1002	on / off	230Vac	0.9m	-
ML4195E1010	on / off	230Vac	0.9m	2
ML8195E1003	on / off	24Vac	0.9m	-
ML8195E1011	on / off	24Vac	0.9m	2

INSTALLATION

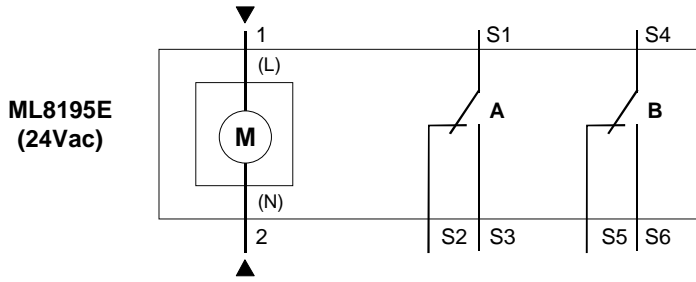
The actuator is designed for dual point mounting/installation.
The mounting instructions are enclosed with the actuator.

Auxiliary switches (see type range)

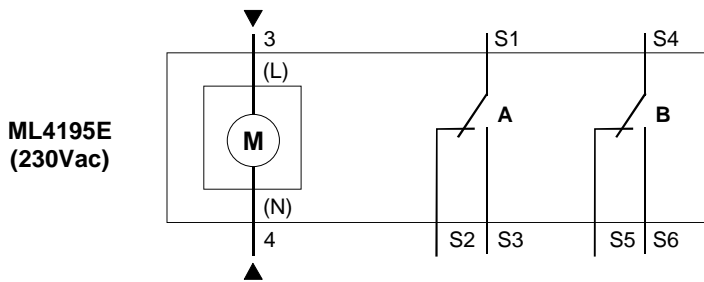
- 1) The figure below shows the relation between the adjustable switching point and the angular of rotation.
- 2) The axis of the auxiliary switches are rotating if the actuator is in motion. The printed scales are only usable if the actuator is in position 0°.



WIRING

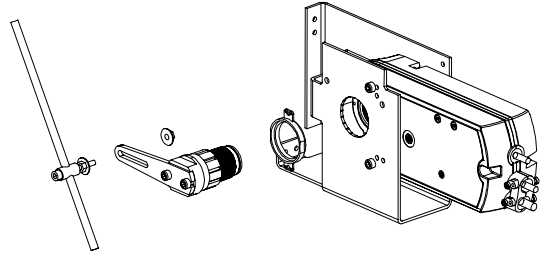
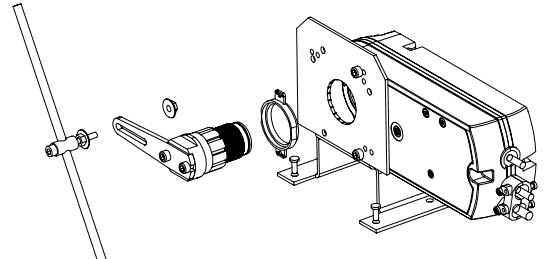
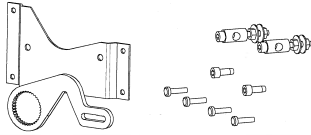


Connecting cable for	No.	Colour	Name
Supply lines	1	red	24Vac
	2	black	24Vac ground
Auxiliary switches	S1	grey / red	Switch A input
	S2	grey / blue	Switch A normally closed
	S3	grey / pink	Switch A normally open
	S4	black / red	Switch B input
	S5	black / blue	Switch B normally closed
	S6	black / pink	Switch B normally open



Connecting cable for	No.	Colour	Name
Supply lines	3	brown	230Vac
	4	blue	230Vac ground
Auxiliary switches	S1	grey / red	Switch A input
	S2	grey / blue	Switch A normally closed
	S3	grey / pink	Switch A normally open
	S4	black / red	Switch B input
	S5	black / blue	Switch B normally closed
	S6	black / pink	Switch B normally open

ACCESSORIES

Description	Order Number	
Rotary linear adapter, frame mounting kit	210033	
Rotary linear adapter, foot mounting kit	210034	
Rotary linear set for duct mounting	ASK71.4	

DIMENSIONS

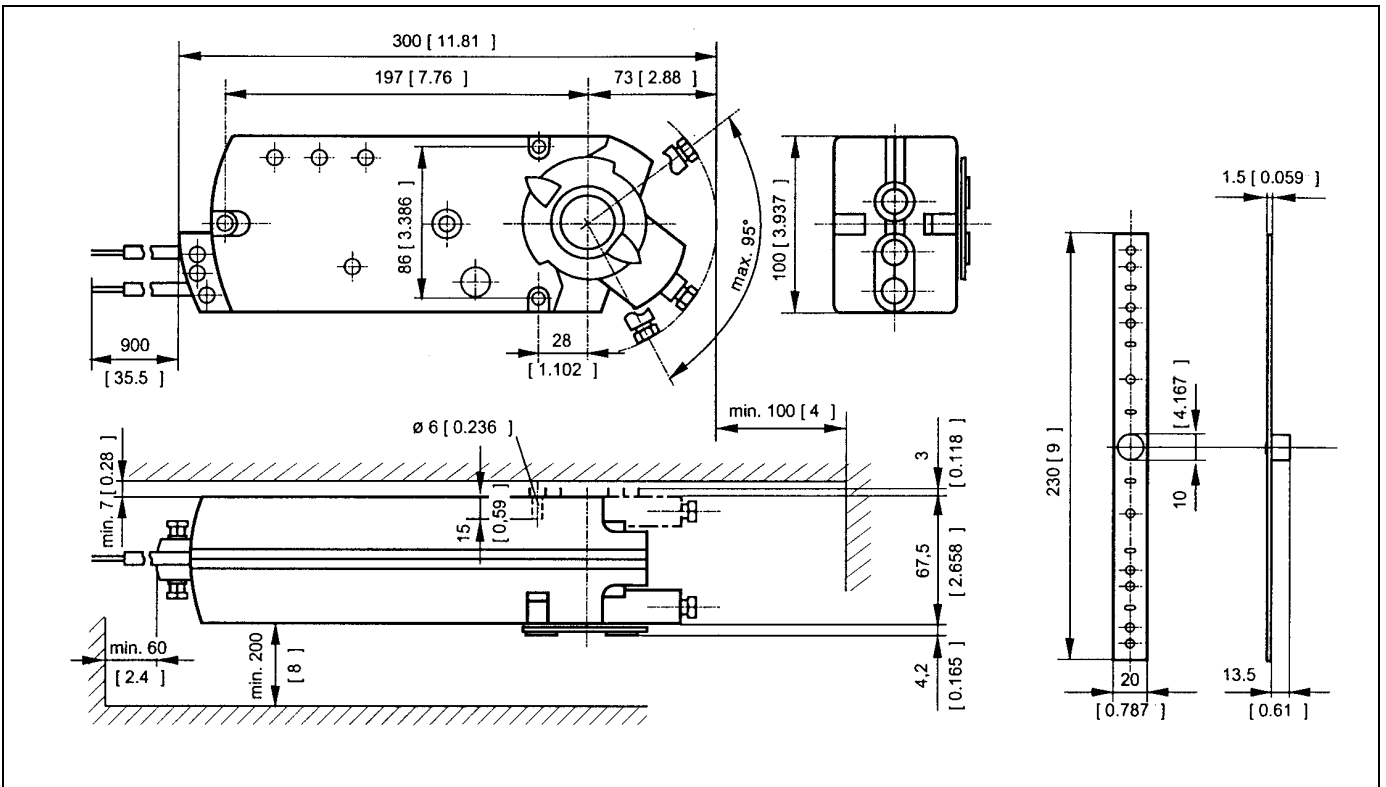


Fig. 2. Dimensions ML4195E/8195E in mm [inch]



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