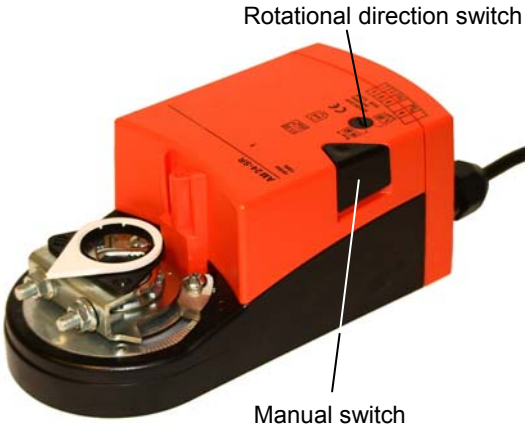
Device description

AM24SR actuating drive

Application

The AM24SR actuating drive with DC 0 to 10 V continuous control is used to control air dampers with fail-safe operation in ventilation and air conditioning systems. The drive is equipped with a universal terminal block and is mounted directly on the air damper valve.
The actuating drive is overload resistant. When the valve or motor stop is reached, the motor stops automatically.



Type

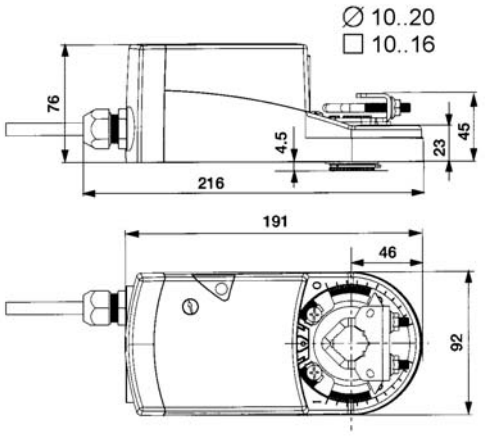
AM24SR	AC 24 V actuating drive with continuous DC 0 to 10 V control, torque 18 Nm

Technical data

Power	Nominal voltage	AC 24 V, 50/60 Hz, 5 VA
	Functional range	AC 19.2..28.8 V
Control	Continuous with actuating signal Y DC 0 to 10 V, Ri 100 kΩ	
Connection	Cable 1 m long, 4 x 0.75 mm² or terminal connection	
Torque	18 Nm at nominal voltage	
Rotational angle	Max. 95°, adjustable limit 33.3..95° rotational angle	
Rotational direction	Set using rotational direction switch CCW/CW	
Position indicator	Arrow on actuating drive	
Position feedback U	DC 0 to 10 V, max. 0.5 mA	
Run time	150 s	
Manual adjustment	Press button	
Degree of protection	IP54 with cable entry from below	
Ambient temperature	-30..+50 °C	
Weight	1.3 kg	
Maintenance	Maintenance-free	

Accessories	AV10/18	Axle extension 240 mm for air damper axles Ø 10 to 18 mm or square axles SW10.. 14
	ZG/AM	Pivot lever with 2 KG8 ball joints, with accessories
	L90	Universal valve lever
	PA1000	Feedback potentiometer 1000 Ω
	SA2	Auxiliary switch, floating, 6 A (1.5 A) AC 250 V

Dimensions



Installation

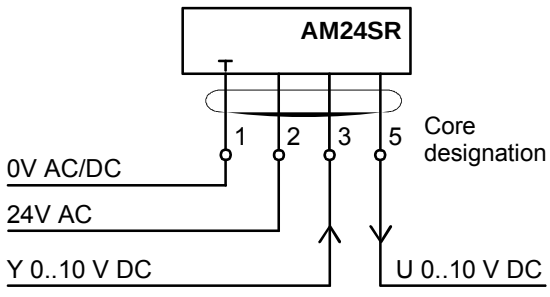
Caution

Electrical installation and unit connection may only be carried out by qualified technicians.

Install the actuating drive in accordance with VDE guidelines and local regulations.

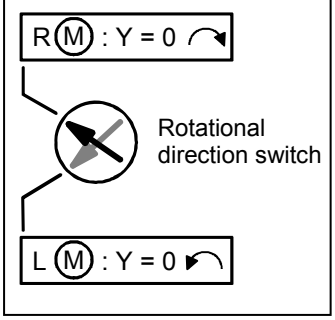
The unit is connected according to the terminal connection diagram or the legally binding system circuit diagram.

Wiring diagram



Connection using safety transformer

Rotational direction



Connection with pre-assembled cable. For direct terminal connection, see page 2.

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Device description

The AM24SR actuating drive is normally connected using the pre-assembled flexible connecting cable. To connect the connection line from the drive to connection line of the control unit, use a connection socket provided on-site.

However, it is also possible to connect the actuating drive directly to the connection line from the control unit. In this case, the connection socket provided on-site is not needed.

Caution

Only qualified technicians may change the connection.
Disconnect the connection line from the mains power supply before beginning work.

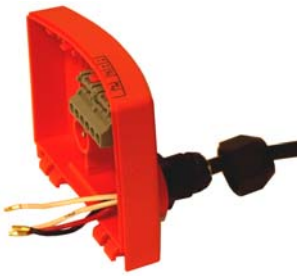
Make the connections as shown below:

Disconnect the power supply and unscrew the connection housing.

1

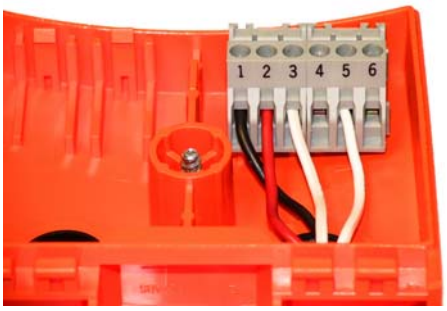
Remove the connection housing from the actuating drive.

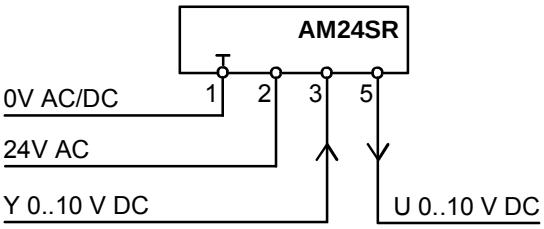
2



Disconnect the connection lines, loosen the cable gland, and remove the pre-assembled connection cable. Feed the new connection cable through the cable gland.

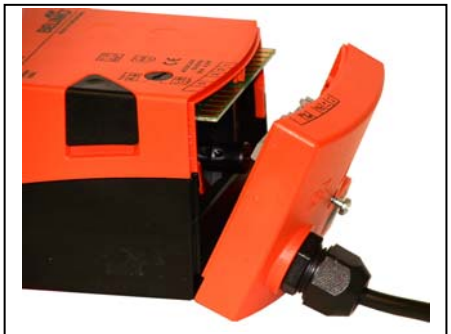
3





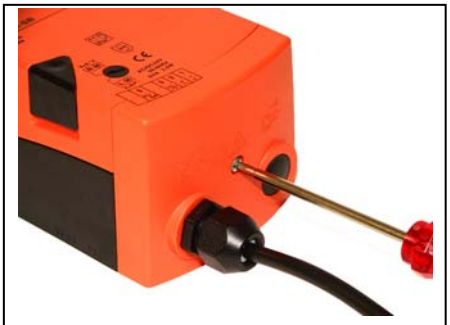
Tighten the cable gland and connect the connection lines.

4



Place the connection housing onto the drive and close it.

5

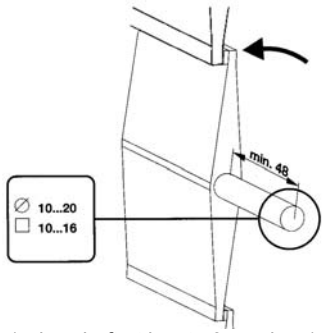


Tighten the connection housing.

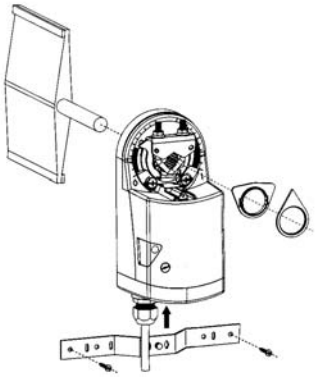
6

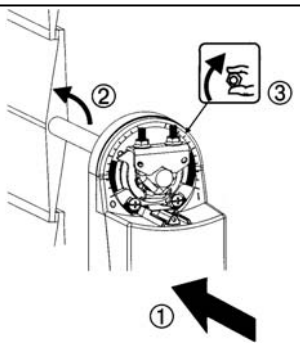
Installation

Mounting with a valve that closes counterclockwise

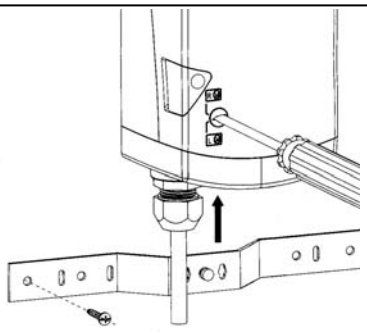


(valve shaft at least 48 mm long)

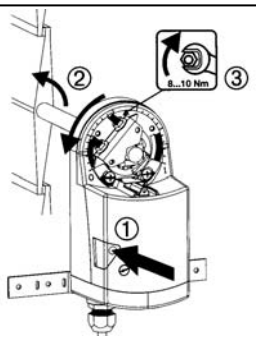




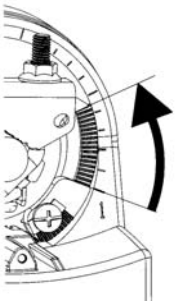
1 Place the actuating drive onto the valve shaft (1), close the valve (2) and hand-tighten the terminal block (3).



2 Adjust and mount the supplied locking lug and set the required direction of rotation.

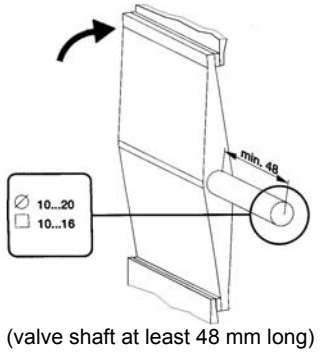


3 Press button (1). With the valve shut, turn the clamp to the left stop (2), and tighten (3).

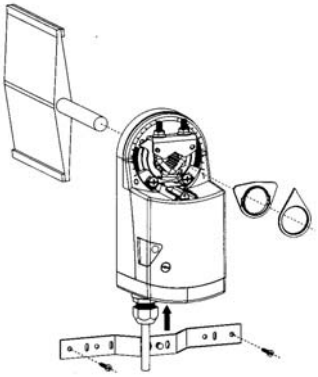


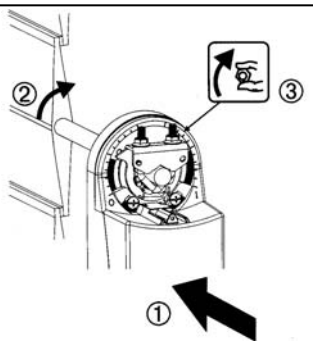
4 Press manual switch, turn the valve clockwise (valve open) and set the rotational limit for the right stop.

Mounting with a valve that closes clockwise

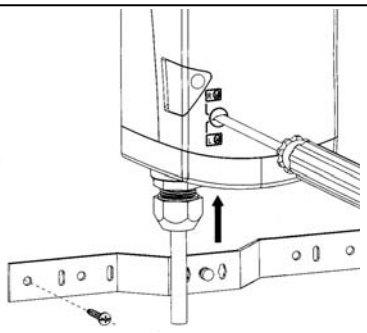


(valve shaft at least 48 mm long)

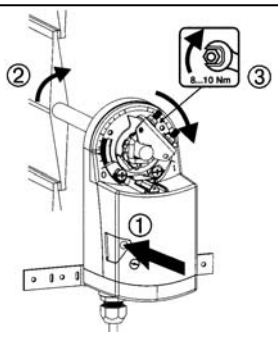




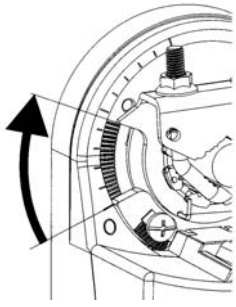
1 Place the actuating drive onto the valve shaft (1), close the valve (2) and hand-tighten the terminal block (3).



2 Adjust and mount the supplied locking lug and set the required direction of rotation.



3 Press button (1). With the valve shut, turn the clamp to the right stop (2), and tighten (3).



4 Press the manual switch, turn the valve counterclockwise (valve open) and set the rotational limit for the left stop.

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AM24SR actuating drive **Device description**