

Device Description

AM24 Actuating Drive

Application

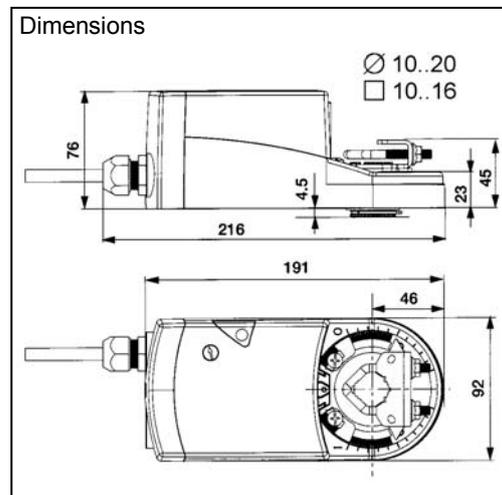
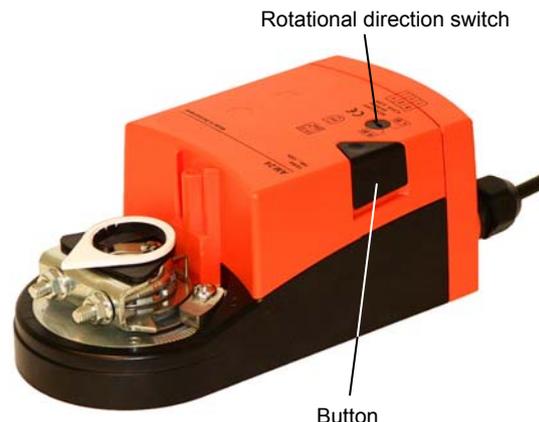
The AM24 actuating drive with 2-point or 3-point control is used to control air valves with fail-safe operation in ventilation and air conditioning systems. The drive is equipped with a universal terminal block and is mounted directly on the air valve axle. The actuating drive is overload resistant. When the valve or motor stop is reached, the motor stops automatically.

Type

AM24 AC 24 V actuating drive with 2-point or 3-point control, torque 18 Nm

Technical data

Mains	Nominal voltage	AC 24 V, 50/60 Hz, 4.5 VA
	Functional range	AC 19.2..28.8 V
Control		2-point or 3-point signal
Connection		Cable 1 m long, 3 x 0.75 mm ² 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
Run time		100..150 s with 0..18 Nm
Manual setting		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 valve axles Ø 10..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



Subject to change

Installation



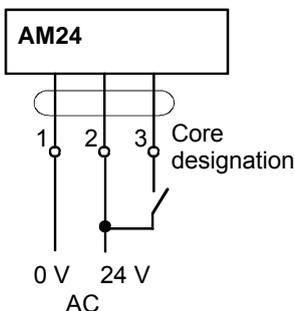
Caution

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

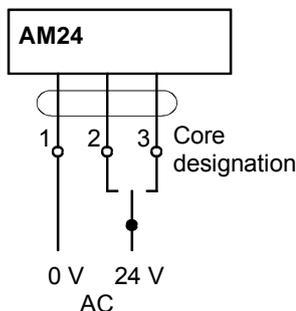
Install the actuating drive in accordance with VDE guidelines and local regulations.

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

Wiring diagram 2-point control



Wiring diagram 3-point control



Rotation direction

Connection		Rotational direction switch	
2	3	R	L
—	—	Off	Off
—	—	↻	↻
—	—	↻	↻
—	—	↻	↻

Connection using safety transformer

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

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The AM24 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 all connection lines from the mains power supply before beginning work.**

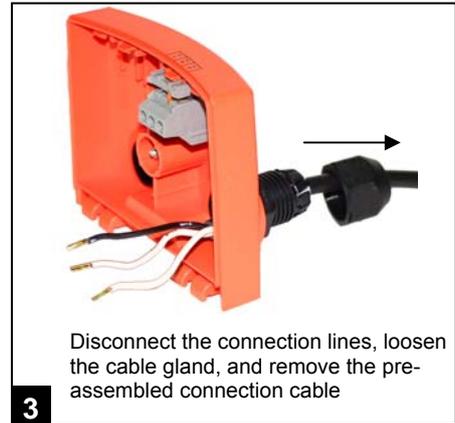
Make the connections as shown below:



Disconnect the power supply and unscrew the connection housing



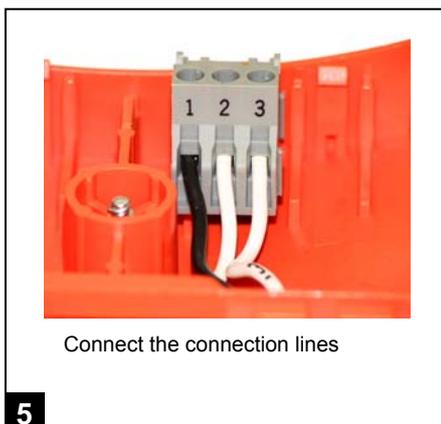
Remove the connection housing from the actuating drive



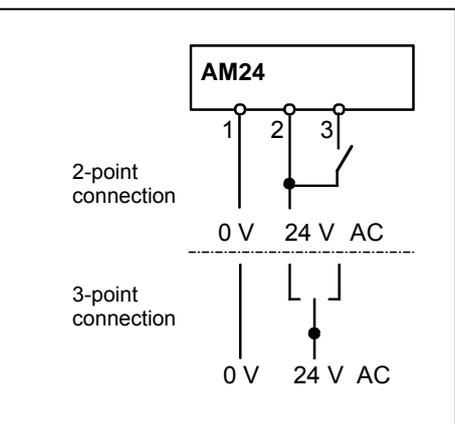
Disconnect the connection lines, loosen the cable gland, and remove the pre-assembled connection cable



Thread the new connection cable through the cable gland and tighten the cable gland



Connect the connection lines



Place the connection housing onto the drive and close it



Tighten the connection housing

Device Description

AM24 Actuating Drive

Mounting

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 clamp (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 button, turn the valve clockwise (valve open) and set the rotational limitation for the right stop

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4 Press button, turn the valve counterclockwise (valve open) and set the rotational limitation for the left stop