

Speedy

M5410C

SMALL ON/OFF LINEAR VALVE ACTUATORS

PRODUCT DATA



FEATURES

- Suitable for ON/OFF control without feedback
- Short runtime
- Electronic switch-off in the end position ensures long-term reliability and saves energy
- Furnished with prewired connection cable
- Simple, standardized valve/actuator coupling – thus, no tools required for mounting
- Small size allows installation where space is limited
- High resistance to glycol and other chemicals

SPECIFICATIONS

Input voltage	
M5410C1001/4005	24 Vac, +20...-20%; 50 Hz
Power consumption	
M5410C1001/4005	<8 W during operation <0.5 W in end position
Input signal	<10 mA
Control mode	ON/OFF
Stroke	2.5 mm and 6.5 mm
Runtime (push/pull)	ca. 1.8 mm/s and 0.4 mm/s
Stem force	100 N (minimum)
Protection standard	IP 54
Insulation class	II
Connection cable	1.5 m
Ambient operating limits	0...60 °C
Weight	0.2 kg
Suitable valves	V5822/23, V5832/33 in DN15/20 and V100/V2000 TRV

APPLICATION

The Honeywell M5410C actuators are designed specifically to provide ON/OFF control in conjunction with the V5822/23 and V5832/33 series of small linear valves (DN15/20) as well as with the V100/V2000 TRV series.

The M5410C actuators are suitable for use in all kinds of fast-acting ON/OFF control systems, including boiler and solar systems, fan coil units, induction units, small reheaters, and coolers as well as for zone control applications. They are employed in electronic temperature control systems using hot and/or cold water as the controlled medium.

The M5410C actuators are operated by an SPST signal.

VERSIONS

OS number	power supply	stroke	action at open contact	manual operation	stem force (min.)
M5410C1001	24 Vac	6.5 mm	stem retracts	provided by valve adjustment cap	100 N
M5410C4005		2.5 mm	stem retracts		

OPERATION

The actuator movement is produced by a screw spindle driven in both directions through a set of gears by a d.c. motor. The motor is switched OFF electronically when the actuator has built up the closing force. The actuator is fixed to the valve body by means of a coupling ring requiring no tools for mounting. The actuator is maintenance-free and furnished complete with a ready-to-wire connecting cable.

MOUNTING

NOTE: The actuator may be mounted only either beside or above the valve. Adjust the valve in the proper position before mounting the actuator.

Remove the adjustment cap before fixing the actuator to the valve. For easy mounting, ensure that the actuator is in the "retracted" (factory-supplied) position before fixing the actuator to the valve body.

The actuator must be mounted by hand. Do not use tools or additional force, as that could damage the actuator and valve.

DIMENSIONS

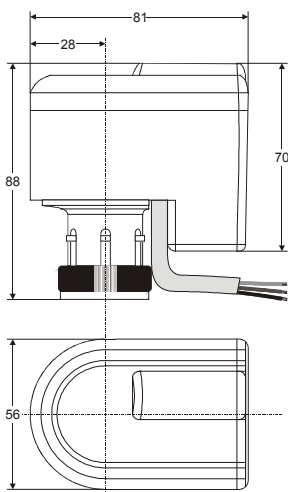


Fig. 1. Dimensions (in mm)

ELECTRICAL WIRING OF MOTOR

The electrical installation must comply with Fig. 2.

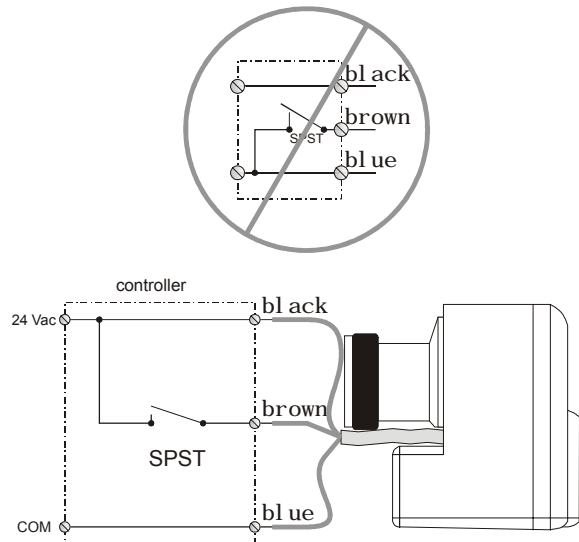


Fig. 2. Electrical wiring

ACTION

M5410C1001/M5410C4005

Closing the contact at the brown cable will drive the actuator to the "extended" position. Upon opening the contact, the actuator will drive back to the "retracted" position.

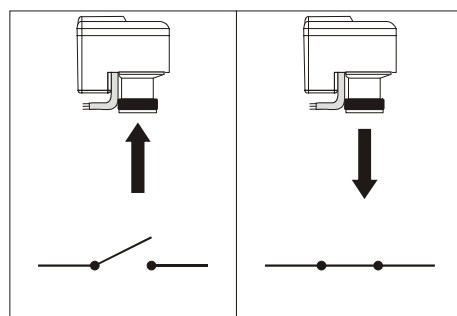


Fig. 3. Action of M5410C1001/M5410C4005

Honeywell

Automation and Control Solutions

Honeywell GmbH
 Böblinger Straße 17
 D-71101 Schönaich
 Phone: (49) 7031 63701
 Fax: (49) 7031 637493
<http://europe.hbc.honeywell.com>

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