



CM Series | Damper Actuator 10 Nm

Modulating Control



PRODUCT FEATURES

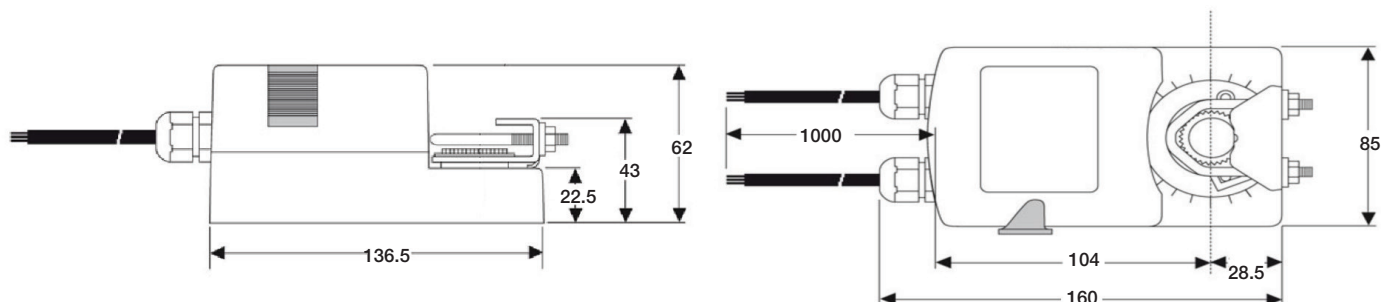
- Torque 10 Nm
- Damper size 2.0 m²
- Power Supply AC/DC 24 V
- Control Modulating DC 0(2)...10 V and 0 (4)...20 mA
- 1 adjustable auxiliary switch (SPDT)
- Shaft dimensions
 - Ø 10 to 17 mm (new 20 mm) round / □ 5 to 12 mm (new 14 mm square)
- Minimum shaft length 45 mm
- Selectable direction of rotation
- Adjustable angle of rotation
- Actuator with 1000 mm cable connection
- Customer version on request

MODEL SELECTION TABLE

Torque	Running Time	Power Supply	Auxiliary Switch	Model / Type
10 Nm	100...150 sec	AC/DC 24 V ± 10%	No	10CM - 24
10 Nm	100...150 sec	AC/DC 24 V ± 10%	1 x SPDT	10CM - 24S1

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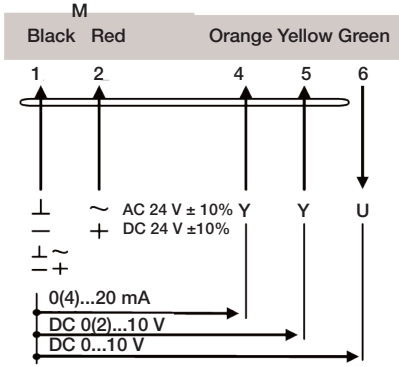
TECHNICAL SPECIFICATION

	10CM...(S1)
Torque	10 Nm
Damper Size	2.0 m ²
Shaft dimensions	Ø 10 to 20 mm round / □ 5 to 14 mm square
Power Supply	AC/DC 24 V ± 10%
Frequency	50 - 60 Hz
Control Signal (Input)	DC 0(2)...10 V or 0(4)...20 mA
Position Signal (Output)	DC 0...10 V
Power Consumption	
- Operating	6.0 W
- End Position	2.0 W
For Wire Sizing	6.5 VA
Protection Class	III ⚡
Angle of Rotation	0°...90° (95° mechanical)
Angle of Limiting	0°...90° in 10° steps
Weight	< 1.0 Kg
Life Cycle	60'000 rotation
Sound Level	40 dB (A)
IP Protection	IP 54 (dust protected & protected against splash water)
Operating Temperature	-20°...+50° C / IEC 721-3-3
Non-Operating Temperature	-30°...+60° C / IEC 721-3-2
Ambient Humidity	5%...95% rH non condensing / EN 60730-1
Maintenance	Maintenance free
Mode of Operation	Type I / EN 60730-1
EMC	CE according to 89 / 336 / EEC
Auxiliary Switch Rating	3 (1.5) A, AC 250 V

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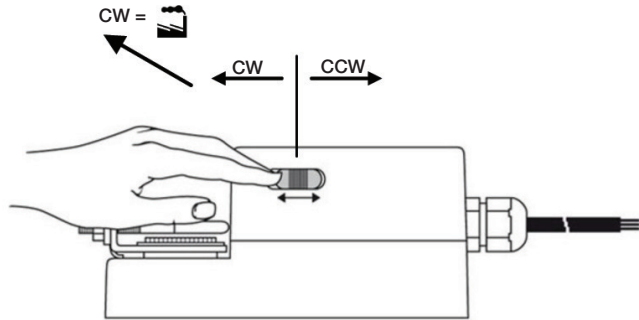
Wiring Diagram 10CM...(S1) Power Supply AC/DC 24 V



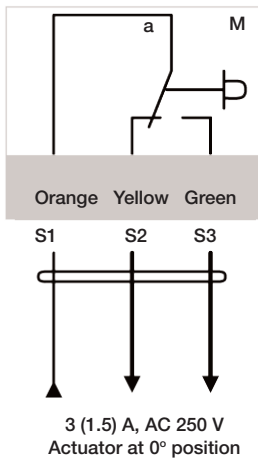
Changing Direction of Rotation 10CM...(S1)

Factory-set CW!

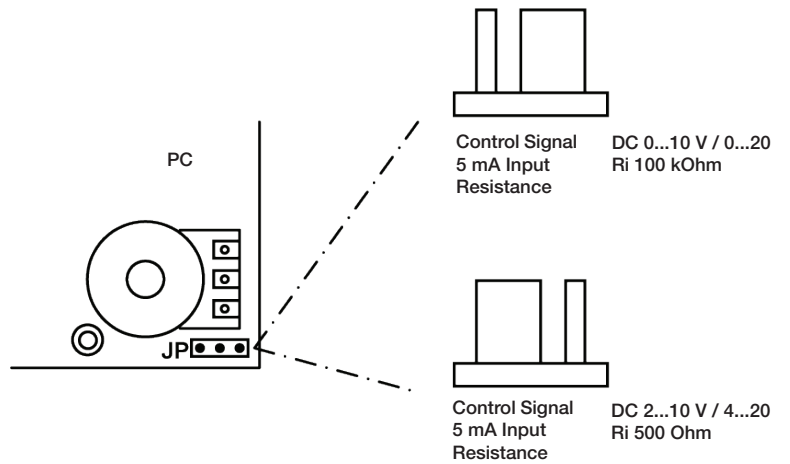
The direction of rotation can be changed by pushing the CW/CCW switch on the actuator's housing.



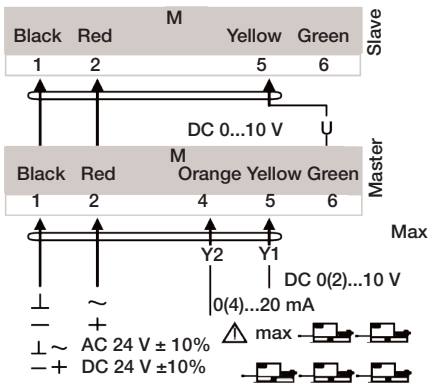
Wiring Diagram 10CM...(S1) Auxiliary Switch



Adjustment of Control Signal 10CM...(S1)



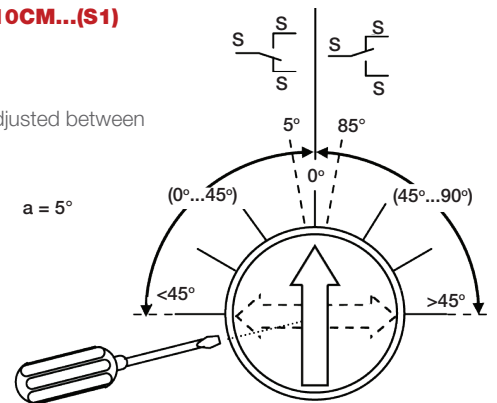
Wiring Diagram 10CM...(S1) Parallel Connection



Adjustment of Auxiliary Switch 10CM...(S1)

Switch a factory-set at 5°

The auxiliary switch can be optimally adjusted between 0°...90°.



Remark

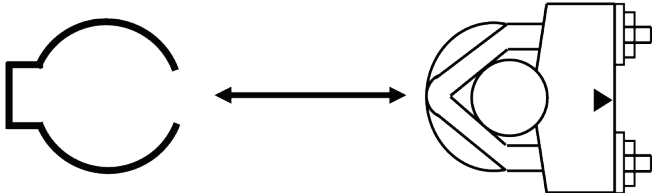
When 10CM...(S1) actuators operate in parallel, the output signal U = DC 0...10 V (terminal 6) of the master actuator must be connected to terminal 5 of the next slave actuator.

The power consumption must be observed.

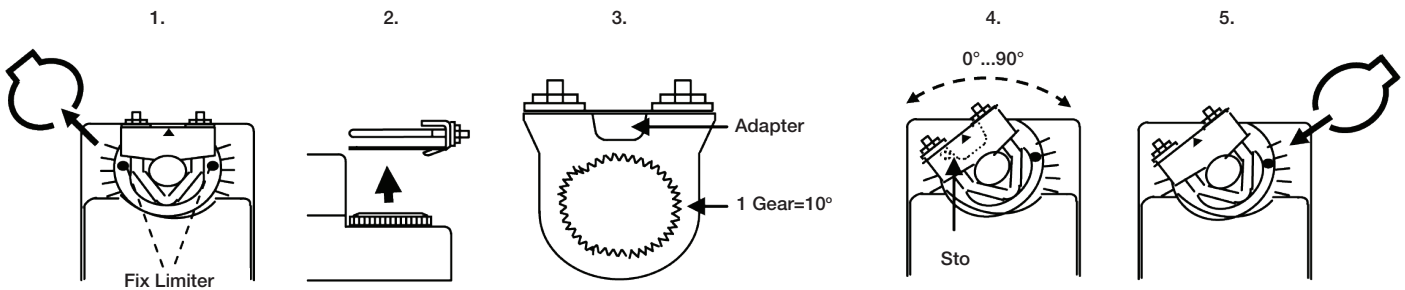
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Releasing the Adapter 10CM...(S1)



Limiting Angle of Rotation 10CM...(S1)



This actuator includes electrical and electronic components and may not be disposed as household garbage. Please consider the local valid legislation.



AC / DC 24 V: Connect via safety isolating transformer.

AC 230 V: To isolate from the main power supply, the system must incorporate a device which disconnects the phase conductor (with at least a 3 mm contact gap).