



CM Series | Damper Actuator 2 Nm / 5 Nm

Modulating Control



PRODUCT FEATURES

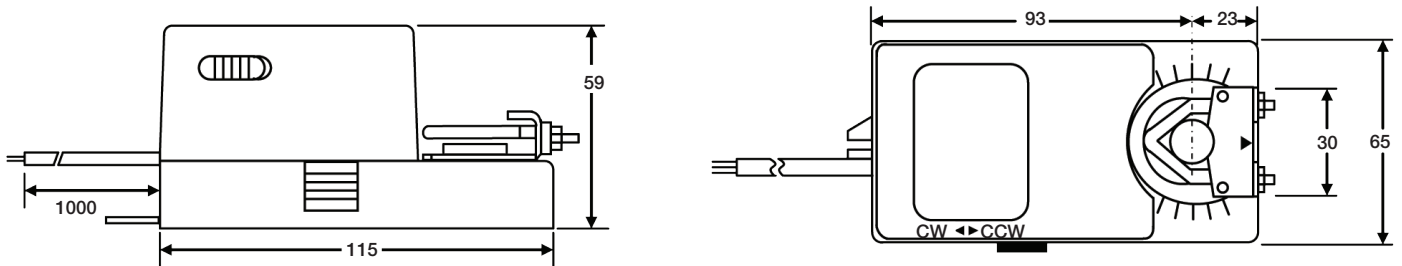
- Torque 2 Nm / 5 Nm
- Damper size 0.4 m² / 1.0 m²
- Power Supply AC/DC 24 V
- Control Modulating DC 0(2)...10 V
- Shaft dimensions
 - Ø 6 to 15 mm round / □ 5 to 10.5 mm square
- Minimum shaft length 40 mm
- Selectable direction of rotation
- Adjustable angle of rotation
- Actuator with 1000 mm cable connection
- Customer version on request

MODEL SELECTION TABLE


| Torque | Running Time | Power Supply | Auxiliary Switch | Model / Type |
|--------|--------------|------------------|------------------|--------------|
| 2 Nm | 60...90 sec | AC/DC 24 V ± 10% | No | 02CM - 24 |
| 5 Nm | 70...100 sec | AC/DC 24 V ± 10% | No | 05CM - 24 |

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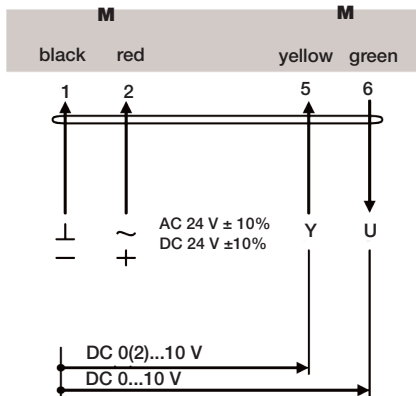
TECHNICAL SPECIFICATION

| | |
|----------------------------------|---|
| | 02 / 05CM. |
| Torque | 2 Nm / 5 Nm |
| Damper Size | 0.4 m ² / 1.0 m ² |
| Shaft dimensions | Ø 6 to 15 mm round / □ 5 to 12 mm square |
| Power Supply | AC/DC 24 V ± 10% |
| Frequency | 50 - 60 Hz |
| Control Signal (Input) | DC 0(2)...10 V |
| Position Signal (Output) | DC 0...10 V |
| Power Consumption | |
| - Operating | 2.0 W |
| - End Position | 2.0 W |
| For Wire Sizing | 4.0 VA |
| Protection Class | III  |
| Angle of Rotation | 0°...90° (95° mechanical) |
| Angle of Limiting | 0°...90° (max. 0°...30° / 60°...90°) |
| Weight | < 0.7 Kg |
| Life Cycle | 60,000 rotation |
| Sound Level | 40 dB (A) |
| IP Protection | IP54 (dust protected & protected against splash water) |
| Operating Temperature | -20°...+50° as per 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 |

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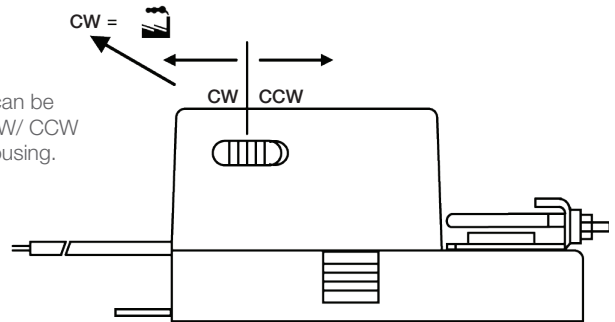
Wiring Diagram 02/05 CM Power Supply AC/DC 24 V



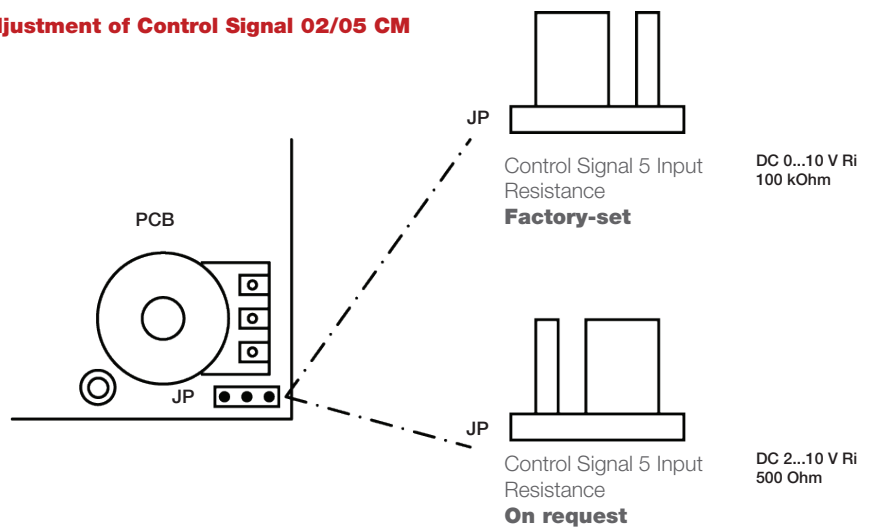
Changing Direction of Rotation 02/05 CM

Factory-set CW!

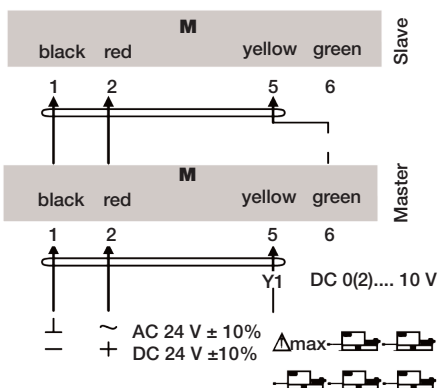
The direction of rotation can be changed by pushing the CW/ CCW switch on the actuator's housing.



Adjustment of Control Signal 02/05 CM



Wiring Diagram 02/05 CM Parallel Connection



Remark

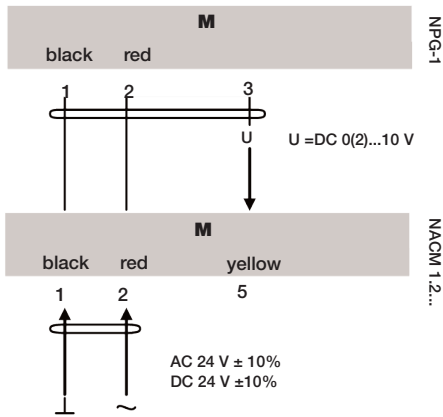
When 02/05 CM actuators operate in parallel, the output signal $U = DC 0...10 V$ (terminal 6) of the master actuator must be connected to terminal 5 of the next slave actuator.

The power consumption must be observed.

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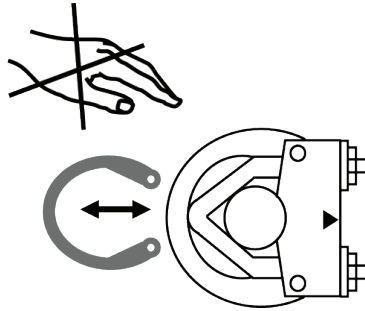
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Wiring Diagram 02/05 CM NPG-1 Position Transmitter AC/DC 24 V



Releasing the Adapter 02/05 CM

Releasing the adapter is not required and not necessary.

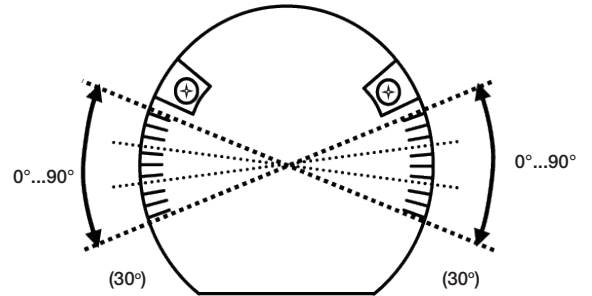
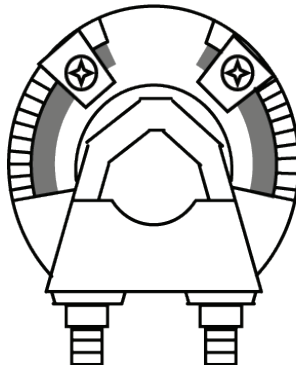


Limiting Angle of Rotation NACA 1/2... (S1)

Adjustment of Mechanical Limiter

1. Loosen screw of mechanical limiter
2. Move limiter to appropriate position *
3. Tighten screw

* Working range of 90° can be reduced up to 30° from each end position.



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).