

TITLE: CENTRONIK REMOTE MOUNTING FOR CK AND CKR ELECTRIC ACTUATORS. INSTRUCTIONS
MODELS: CENTRONIK UNIT

CK range multi-turn electric actuators with Centronik units, the Centronik unit can be remote mounting, from the actuator, up to 100 meters, when the actuator will be exposed to high temperatures, difficult access, or in case of heavy vibrations.

⚠ Observe all the safety instructions described on the actuator safe user installation manual. WARNING: Ensure all power supplies are isolated before removing any covers.

The mounting bracket and mounting adaptor pieces have been design in order to withstand the Centronik unit (weight), other uses are not allowed.

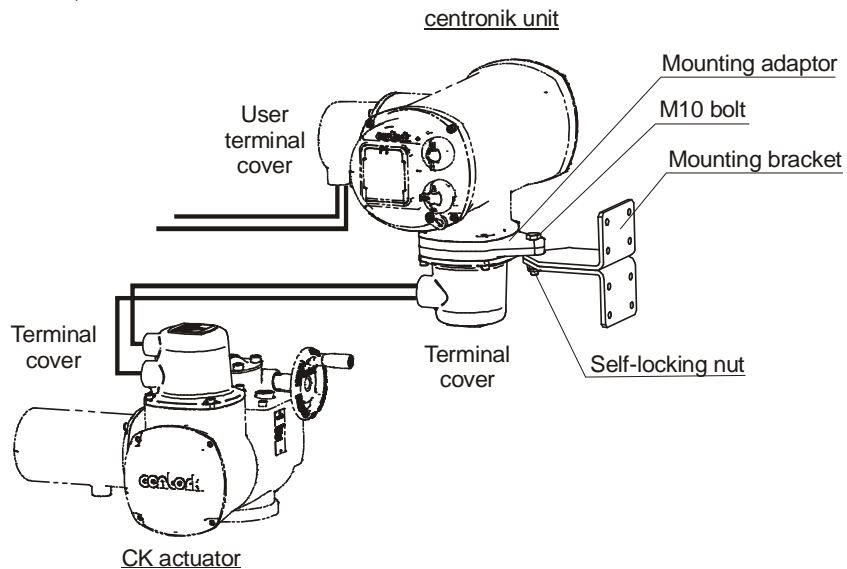
Mounting:

Fix the mounting brackets, to the wall pedestal, pillar or structural element, by using proper fixing methods, according to the base material in which it will be mounted; Use stainless steel sleeve anchors, or screws, suitable for 9 mm holes.

- Once the Centronik unit has been mounted, and the cabling of the internal connection has been done, then, mount the Centronik unit with the terminal cover and the mounting adaptor to the mounting brackets, tightening the M10 and self-locking nut.
- Check the correct assembly position, giving enough clearance for easy access and maintenance

Electric Actuator with Electro Mechanical Switch Mechanism (EMSM) Cabling

- Refer to proper actuator with Centronik wiring diagram, specially, the internal connection between Centronik and actuator.
- Use suitable flexible cable and screened connecting cables
- Observe all the instructions already described in the actuator Safe use installation manual (PUB111-007), n°7 chapter.
- Permissible max. distance, 100 meters



- For the electrical connection at wall bracket, the terminals are made as butt crimp connections.
 - Control (signal) cables:
 - Use Rotork approved butt crimps, **JST crimp terminal, CVDGF1.25-5** (It is required a suitable four indent crimp tool, for crimping).
 - cross section: max 0.75 to 1.5 mm²
 - cross section: Wire Size AWG Max: 16AWG, Min: 22AWG
 - For CPT wires, use separate CAN bus data cable, cross section 0.5 mm²
 - Motor supply connection,
 - Use Rotork approved solderless splices (Butt), vinyl or nylon insulated.
 - cross section: max 2 to 6 mm²
 - cross section: Wire Size AWG Max: 12AWG, Min: 10AWG

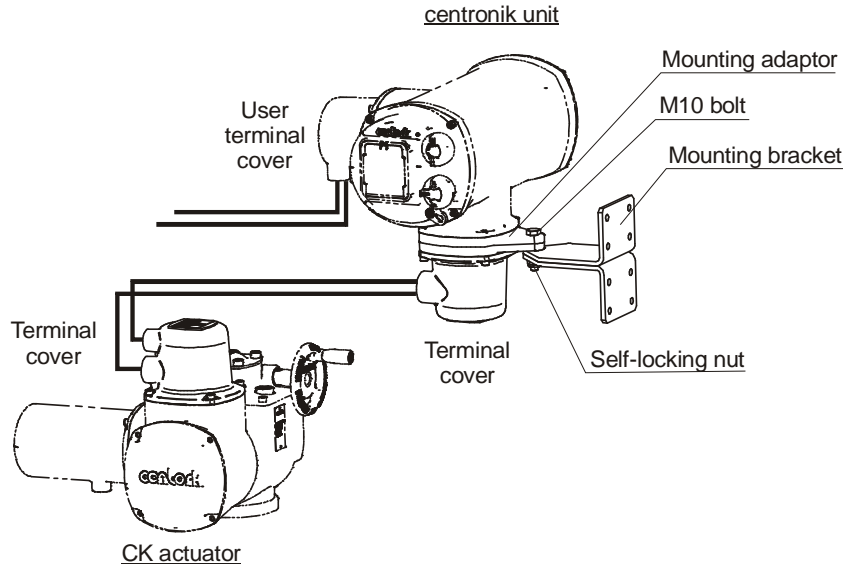
Once the cabling and connection is done, user shall check/verify the continuity of the wiring, and proper connection at both sides (Actuator terminal cover and Centronik internal connection cover).

Connection cables (except analog cable) must be subject to an insulation test in compliance with EN50178

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Electric Actuator with Digital Switch Mechanism (DSM) Cabling

- Refer to the correct Centronik actuator wiring diagram, specifically, the internal connection between Centronik and actuator.
- Use cable that meets the minimum specification for the length required (0-50m or 50-100m). Refer to table below.
- Observe all the instructions already described in the actuator Safe Use Installation Manual (PUB111-007), n°7 chapter.



- For the electrical connection at wall bracket, the terminals are made as crimp connections.
 - Switch mechanism (CANbus signal) cables:
 - Use Rotork approved ferrule crimps, 0.5mm² vinyl or nylon insulated.
 - Motor Thermostat (signal) cables:
 - Use Rotork approved butt crimps, **JST crimp terminal, CVDGF1.25-5** (It is required a suitable four indent crimp tool, for crimping).
 - Motor supply connection:
 - Use Rotork approved solderless splices (Butt), vinyl or nylon insulated.
 - cross section: max 2 to 6 mm²
 - cross section: Wire Size AWG Max: 12AWG, Min: 10AWG

Once the cabling and connection is done, user shall check/verify the continuity of the wiring, and proper connection at both sides (Actuator terminal cover and Centronik internal connection cover).

Connection cables (except analog cable) must be subject to an insulation test in compliance with EN50178.

PARAMETER	MINIMUM SPECIFICATION FOR UP TO 50M	BELDEN CABLE 3084A T5U500 (OR EQUIVALENT) UP TO 100M
Type of Cable	Twisted pair shielded	Twisted pair shielded
No. Cores	4 (Data pair + Power pair)	4 (Data pair + Power pair)
Conductor Material	Tinned Copper	Tinned Copper
Core Insulation Material	PVC	PVC (Power) FPE (Data)
Shield Type	Braid	Foil + Braid
Shield Coverage	Braid ≥ 65%	Braid ≥ 65% Foil = 100%
Outer Sheath	PVC	PVC
Data Pair Capacitance	≤ 70 pF/m	≤ 40 pF/m
Conductor	≤ 175 Ohm/km (Power) ≤ 280 Ohm/km (Data)	≤ 175 Ohm/km (Power) ≤ 280 Ohm/km (Data)
Current Rating	≥ 1 A	≥ 1 A

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