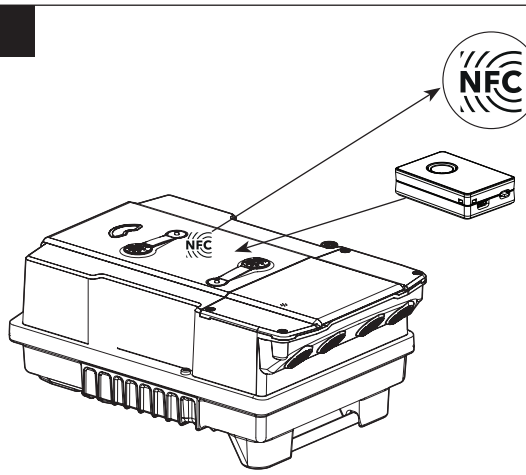
QUICK MOUNT VISUAL INSTRUCTION MANUAL

PKB and PMB Actuators

BELIMO

1



Near Field Communication (NFC) allows fast programming, commissioning and troubleshooting – even when the actuator is not powered it can be programmed

ZIP-BT-NFC (iPhone)

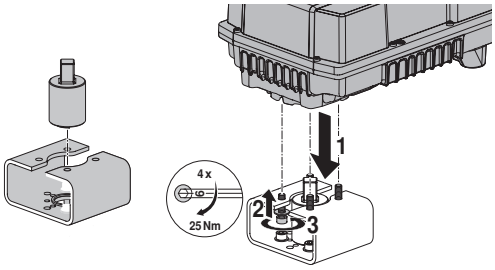
Belimo Assistant App

GET IT ON Google Play

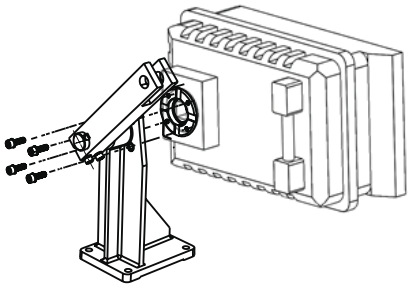
Download on the App Store

2

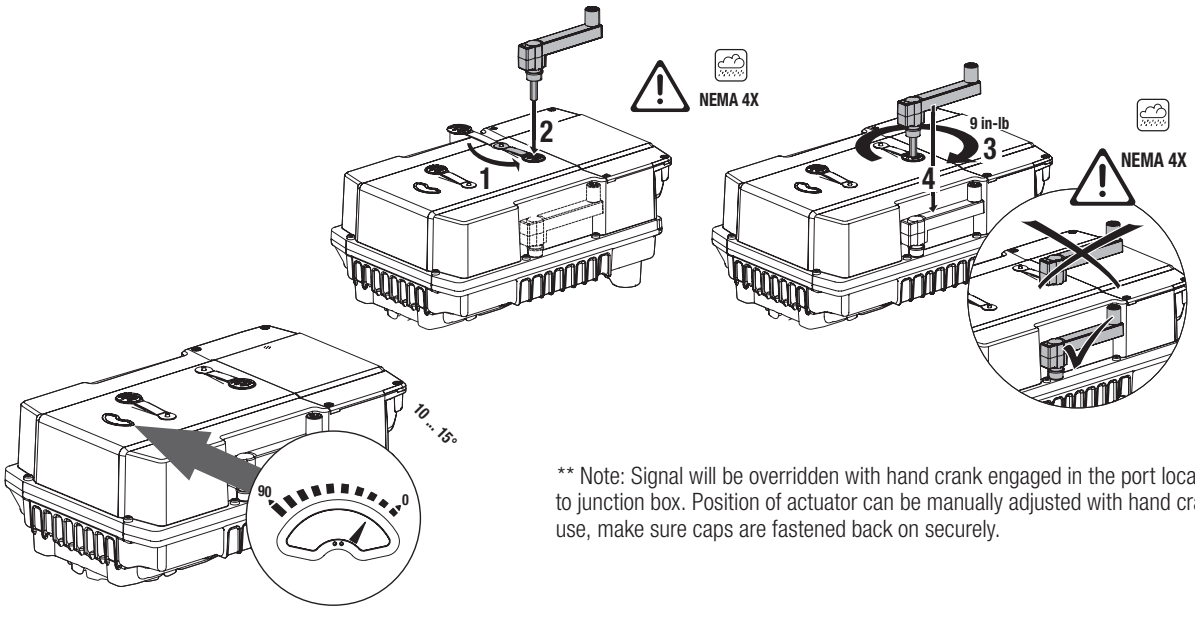
Option 1
Retrofit Form required



Option 2
FCAPM



3



** Note: Signal will be overridden with hand crank engaged in the port located closest to junction box. Position of actuator can be manually adjusted with hand crank. After use, make sure caps are fastened back on securely.

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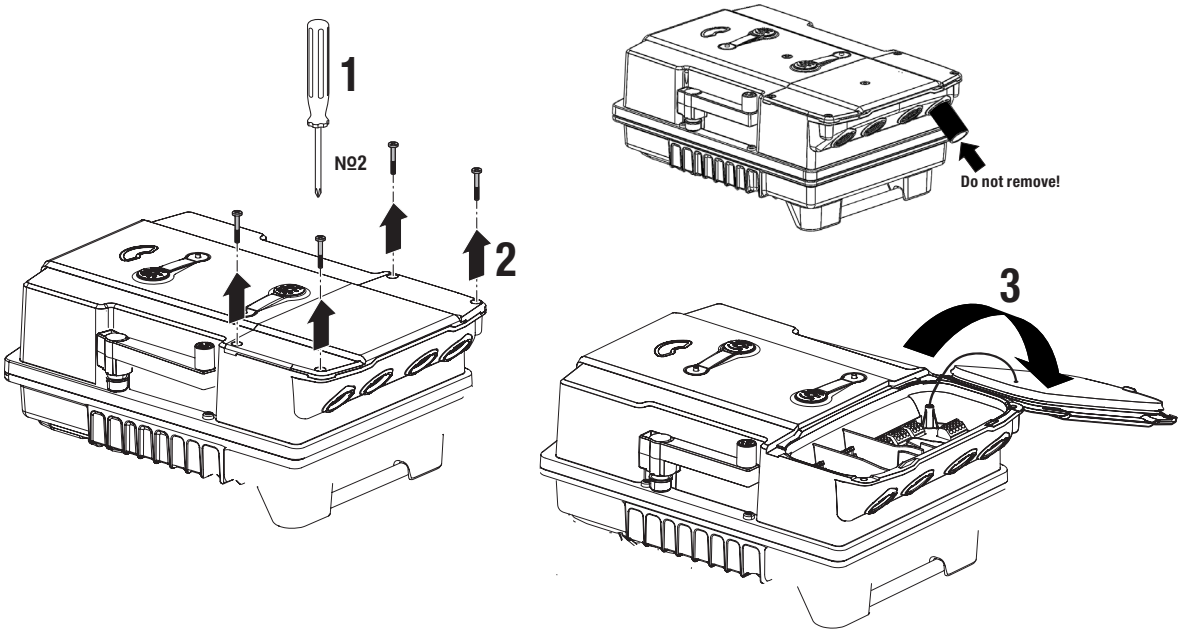
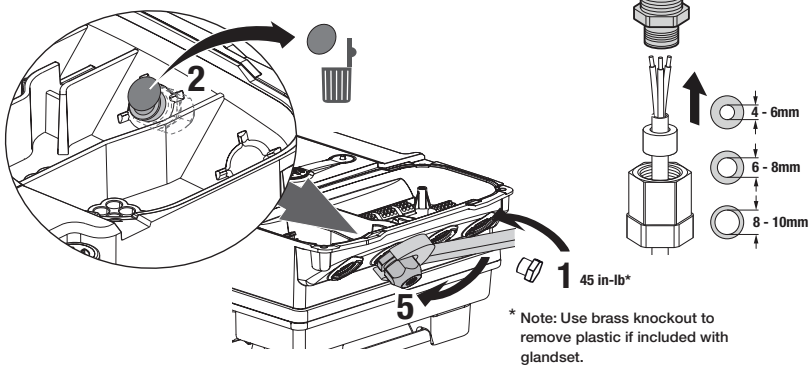
4

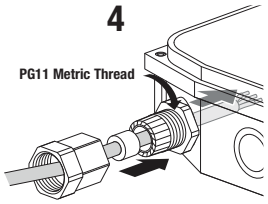


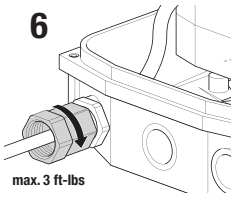
5

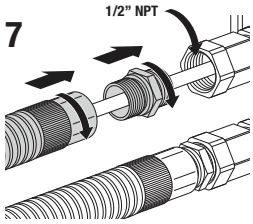
Use supplied conduit fittings. Failure to do so may result in water intrusion and void NEMA 4X rating.



* Note: Use brass knockout to remove plastic if included with glandset.







** Note: Only use conduit connector provided by Belimo. Make sure conduit connections are also securely connected.

PKB and PMB Actuators

BELIMO

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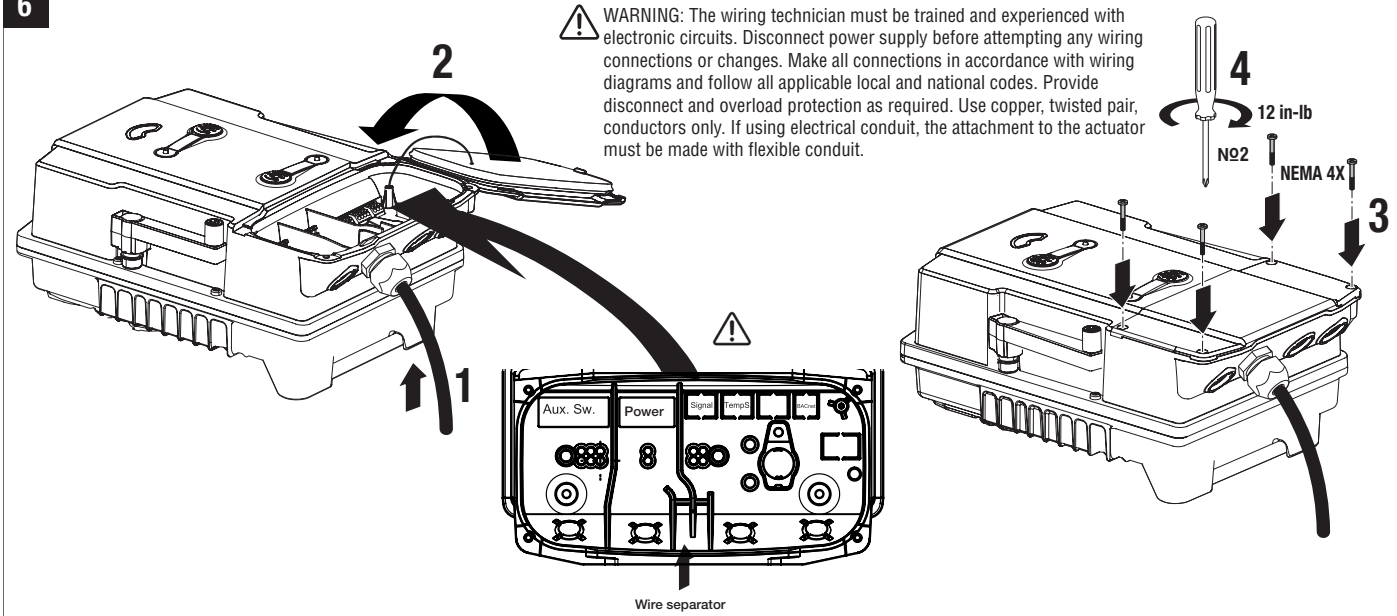
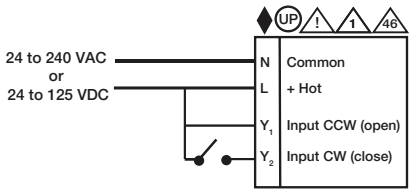


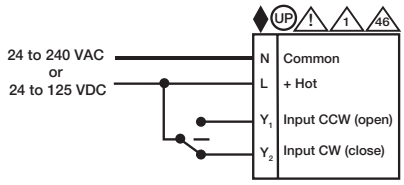
⚠ WARNING: The wiring technician must be trained and experienced with electronic circuits. Disconnect power supply before attempting any wiring connections or changes. Make all connections in accordance with wiring diagrams and follow all applicable local and national codes. Provide disconnect and overload protection as required. Use copper, twisted pair, conductors only. If using electrical conduit, the attachment to the actuator must be made with flexible conduit.

WIRING DIAGRAMS

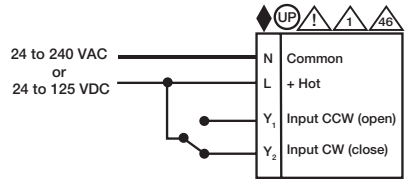
PKB and PMB Actuators



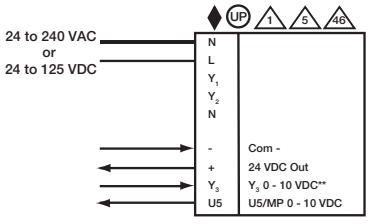
On/Off



Floating Point



On/Off

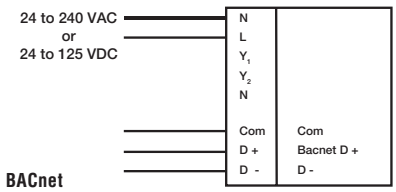


VDC / 4 to 20 mA

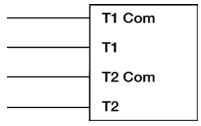
Notes:

- ♦ **Meets cULus requirements without the need of an electrical ground connection.**
- ⚠1 **Provide overload protection and disconnect as required.**
- ⚠5 **Only connect common to neg. (-) leg of control circuits.**
- ⚠4 **Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.**
- ⚠46 **Actuators may be controlled in parallel. Current draw and input impedance must be observed.**
- (UP) **Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.**
- ⚠! **During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.**

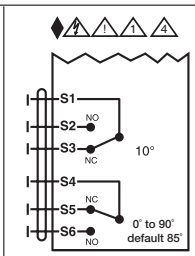
  **Control type, Direction and Fail position changes can be made via Belimo Assistant App, i.e. Floating or 4-20mA.



BACnet

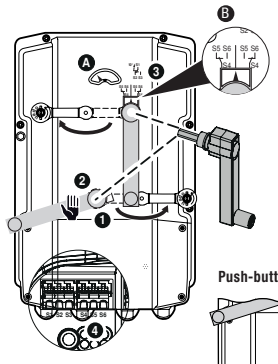


Temp Sensor



End Switches

Optional: end switch adjustment



⚠ **Disconnect power.**

1. **Gear disengagement**
   Open the manual override cover and insert the hand crank. Manual override is possible.
2. **Manual override**
   Turn the hand crank until (A) indicates the desired switching position and then remove the crank.
3. **Auxiliary switch**
   Open the auxiliary switch adjustment cover and properly seat the hand crank into the actuator. (B) Turn the crank until the arrow points to the vertical line.
4. **Terminals**
   Connect continuity tester to S4 + S5 or to S4 + S6.
   If the auxiliary switch should switch in the opposite direction, rotate the hand crank by 180°.
5. **LED Display Green**
   6 LED Display Yellow Off: No power supply or malfunction,
   On: In operation Press button: Triggers test run, followed by standard mode.
6. **LED Display Yellow**
   Off: Standard mode, On: Test run active.