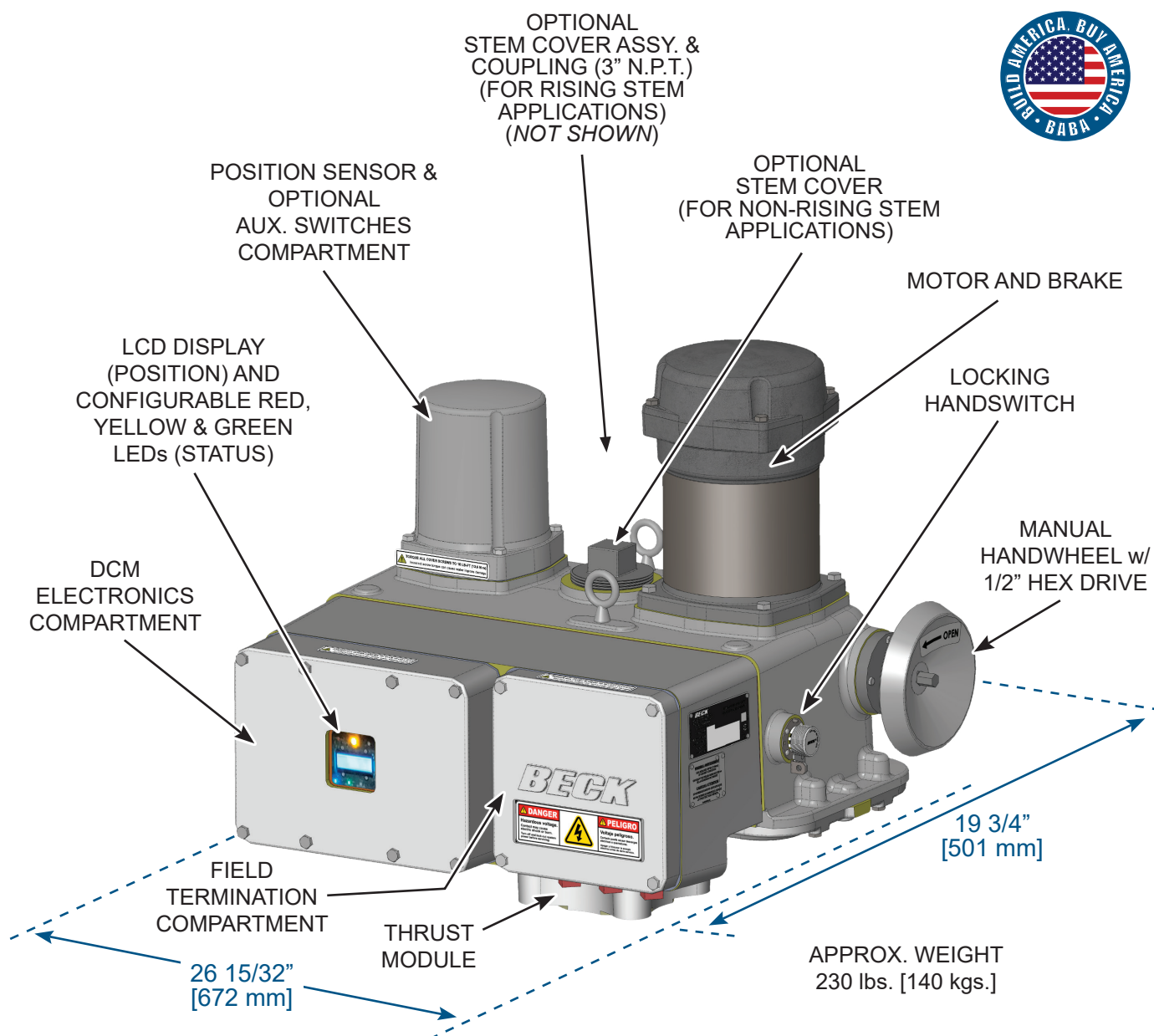


88-109 Multi-turn Actuator

The 88-109 is not just another electric actuator. Here are a few design details that set the 88-109 apart from typical multi-turn electric actuators...

- A non-intrusive Wi-Fi interface eliminates custom apps, software and proprietary handhelds
- A "no burn-out", permanent magnet motor that has no duty limitations and won't overheat
- A >90% efficient spur gear train that eliminates inefficiencies and wear of typical worm gear designs
- Permanent grease lubrication that eliminates oil leaks, mounting restrictions and PM
- Programmable torque and stall protection that eliminates problematic torque switches
- The motor starts at full torque so there is no need for "hammer blow"

ELECTRIC ACTUATORS FOR INDUSTRIAL PROCESS CONTROL

Beck 88-109 Multi-turn Actuator

Beck's new 88-109 Multi-turn Actuator is perfect for rising and non-rising stem gate applications. Additionally, when coupled with a ¼-turn gearbox, it is a compact and cost-effective solution for large butterfly and other ¼-turn valves. Like all Beck actuators, the 88-109 is simple to use and virtually maintenance-free.

Specifications & Standard Features

- **Power:** 480 Vac, 3 phase, 50/60 Hz, 5A max.
- **Torque rating:** 125 lb-ft (169 N•m)
- **Output shaft speed:** 60 RPM max., configurable to any speed from 10% to 100% of maximum
- **Max. output shaft travel:** 4000 revolutions
- **Duty rating:** 100% w/o limitation—60 starts/minute or continuously running at rated torque load
- **Max. valve stem pass-through:** Up to 2" (larger shafts require an external gearbox)
- **Temperature rating:** -40°F to 158°F (-40°C to 70°C)
- **Environmental rating:** NEMA 4X, IP66, IP68 (3 meters for 48 hours)
- **Relays:** Three field-programmable relays for system status and/or position indication
- **Mechanical position switches (optional):** Two SPST cam-operated, adjustable over-travel limit switches (CW, CCW) & four auxiliary switches (S1–S4) are available as a set
- **Control interfaces:**
 - Discrete pulse control via 24 Vdc dry contacts or 120 Vac inputs
 - 4-20 mA Demand signal
 - Modbus RTU (Modbus TCP is optional)
- **External Position Feedback signal:** 4-20 mA
- **Local indications:**
 - Alphanumeric LCD position display
 - Red, yellow & green discrete LEDs for indication of status conditions or position
- **Local electrical control:** Five-position, lockable Handswitch with aux. status contact (closed-in-AUTO)
- **Local manual control:** Handwheel includes ½" hex drive
- **Thrust module:** FA14 or FA16 mounting pattern
- **Configuration interfaces:** Wi-Fi, Serial Command Port, Push Button, and Modbus

BECK[®] HAROLD BECK & SONS, INC.

11 TERRY DRIVE • NEWTOWN, PENNSYLVANIA 18940 • USA
PHONE: 215-968-4600 • FAX: 215-860-6383 • E-MAIL: sales@haroldbeck.com
www.haroldbeck.com

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