CSM-QMTDC-275-4-EX

Digital QMT® Shade Motor for QMT5 Series, 4 Nm, infiNET EX®

- *Designed for use with Crestron® QMT®5 Series Architectural or Décor shade hardware*
- *Handles roller shades 21 inches (534 mm) and larger[1]*
- *Digital Quiet Motor Technology™ achieves nearly inaudible operation*
- *Long-life brushless motor design ensures ultimate reliability*
- *Patented automatic torque calibration technology detects obstructions to prevent damage*
- *Starts and stops are smooth and precise*
- *Programmable stop points afford customizable scene presets*
- *Real-time remote activity monitoring and status feedback*
- *Local pushbutton interface for setup and testing*
- *Onboard multicolor diagnostic LED*
- *Fully integrated electronics ¬— no external interface module or antenna required*
- *infiNET EX® wireless communications*
- *24 VDC low-voltage powered*
- *Limited Lifetime Warranty*

Featuring Digital Quiet Motor Technology™, the CSM-QMTDC-275-4-EX shade motor provides quiet yet robust operation for Crestron® roller shades 21 inches (534 mm) and larger.[1] Fully integrated electronics eliminate the need for bulky add-on interface modules or antennas, allowing for a clean, streamlined installation. The CSM-QMTDC-275-4-EX uses infiNET EX® wireless technology for communication with a Crestron 3-Series Control System® or Crestron Pyng® system.

For a wired shade motor alternative with Cresnet® technology, see model CSM-QMTDC-275-4-CN.

The CSM-QMTDC-275-4-EX can integrate seamlessly into a Crestron control system or Crestron Pyng system, allowing it to be operated alone or as part of a group using keypads, wireless remotes, touch screens, and mobile devices. Operation can also be automated in combination with lighting and other equipment using scene presets, scheduling, daylighting, and occupancy sensing. Simple setup controls are included on the CSM-QMTDC-275-4-EX to facilitate wireless setup, testing, and adjustment of shade limits by the installer.

Power is supplied to the CSM-QMTDC-275-4-EX via a dedicated power supply (model CSA-PWS40 [2]) or 10-motor power supply (model CSA-PWS10S-HUB-ENET [2]). The CSA-PWS40 connects to an AC power outlet within 8 feet (2.43 meters) of the shade motor. Alternately, low-voltage 24 VDC power can be distributed to up to ten shade motors from a centralized location using the CSA-PWS10S-HUB-ENET.

Digital Quiet Motor Technology™

Crestron Digital QMT® shade motors feature ultra quiet operation with the ability to position each shade precisely and monitor its movement remotely. A high-torque, long-life brushless motor design achieves smooth starts and stops with exceptional reliability backed by a limited lifetime warranty. Patented automatic torque calibration technology detects and reacts to obstructions in the shade path to prevent damage to the motor or shade material.

infiNET EX®

Ultra-reliable infiNET EX wireless technology provides steadfast two-way RF communications throughout a residential or commercial structure without the need for physical control wiring. Employing a 2.4 GHz mesh network topology, each infiNET EX device functions as an expander, passing command signals through to every other infiNET EX device within range (approximately 150 feet or 46 meters indoors), ensuring that every command reaches its intended destination without disruption.

Communication with the Crestron control system requires a single infiNET EX Wireless Gateway (model CEN-GWEXER [2]) for the complete system. A control system with built-in gateway (model DIN-AP3MEX or MC3 [2]) may also be used. Up to 100 infiNET EX devices may coexist on a single wireless network, and every device that is added to the network effectively increases the range and stability of the entire network by providing multiple redundant signal paths.[3]

NOTE: The CSM-QMTDC-275-4-EX is only available as part of a Crestron® shade system and cannot be ordered on its own. To configure shades or order shading parts and accessories, please use the Crestron Design Tool for Crestron Shading Solutions or call 1-855-53-S-H-A-D-E (537-4233) for support.

SPECIFICATIONS

Motor

Torque: 4 Nm
Speed: 10-30 rpm
Duty Cycle: 8 minutes on / 40 minutes off at 4 Nm
Shade Size: Supports shade widths from 21 to 180 inches (534 to 4572 mm) depending upon fabric
Protection Class: IEC 61140 Class III

CSM-QMTDC-275-4-EX Digital QMT® Shade Motor, 4 Nm, infiNET EX®

Power Requirements

24 VDC: 42.5 Watts (1.8 Amps) at 24 Volts DC;
Requires a CSA-PWS series power supply, sold separately [4]

Wireless Communications

RF Transceiver: infiNET EX 2-way RF, 2.4 GHz ISM Channels 11-26 (2400 to 2483.5 MHz), default channel 15; IEEE 802.15.4 compliant
Range (Typical): 150 ft (46 m) indoor, 250 ft (76 m) outdoor, to nearest mesh network device(s); Subject to site-specific conditions and individual device capabilities [3]
Gateway: Requires an infiNET EX gateway [2]

Connectors

24 VDC: (1) 2-conductor attached lead with inline detachable terminal block [4]

Controls & Indicators

UP, SET, DN: (3) Pushbuttons for setup and testing
Status: (1) Multicolor LED for motor status indication and diagnostics

Environmental

Temperature: 32° to 104° F (0° to 40° C)
Humidity: 10% to 90% RH (non-condensing)

Dimensions

Height: 2.75 in (70 mm)
Width: 2.75 in (70 mm)
Length: 13.91 in (354 mm)

Weight

2.0 lb (908 g)

Notes:

1. The maximum shade width supported is dependent on the shade fabric selected.
2. Item(s) sold separately.
3. Any infiNET EX device that provides expander functionality will effectively extend the range of the wireless network beyond the initial range of the gateway. Battery-powered infiNET EX devices do not provide expander functionality. Crestron also offers dedicated infiNET EX expanders (models CLW-EXPEX or GLA-EXPEX, sold separately), which may be deployed to fill gaps in coverage and extend the wireless range of the mesh network. Up to 100 infiNET EX devices are permitted per gateway, although best practices suggest a limit of approximately 50. Additional gateways may be deployed to support more devices, with a maximum of 16 gateways permitted on a complete system (RF conditions allowing).
4. When powered by a CSA-PWS10S-HUB-ENET, the Cresnet connection is used to provide power only. This product does not allow for data communication via Cresnet.

This product is only available as part of a Crestron shade system and cannot be ordered on its own. To configure shades or order shading parts and accessories, please use the Crestron Design Tool for Crestron Shading Solutions or call 1-855-53-S-H-A-D-E (537-4233) for support.

This product is covered under the Crestron Shading Solutions Limited Warranty for the lifetime of the product. Refer to www.crestron.com/warranty for full details.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

MODELS & ACCESSORIES

Available Models

CSM-QMTDC-275-4-EX: Digital QMT® Shade Motor for QMT5 Series, 4 Nm, infiNET EX®

Available Accessories

CSA-PWS40: Power Pack for Crestron® Shade Interfaces & Roller Shade Motors
CSA-PWS10S-HUB-ENET: 10-Motor Power Supply with Ethernet to Cresnet® Bridge and Cresnet Hub
CEN-GWEXER: infiNET EX® & ER Wireless Gateway
DIN-AP3MEX: DIN Rail 3-Series® Automation Processor w/infiNET EX® & ER Wireless Gateway
MC3: 3-Series Control System® w/infiNET EX® & ER Wireless Gateway
CLW-EXPEX: infiNET EX® Wireless Expander
GLA-EXPEX: Crestron Green Light® Wireless Expander for infiNET EX® Networks

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Specifications subject to change without notice. Revised 04/12/17