CSM-QMTDC-163-1-EX

Digital QMT® Shade Motor for QMT3 Series, infiNET EX®

NOTE: The CSM-QMTDC-163-1-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.

Featuring Digital Quiet Motor Technology?, the CSM-QMTDC-163-1-EX motor provides quiet yet robust operation for Crestron® roller shades 17.5 in (445 mm) and larger.[1] Fully integrated electronics eliminate the need for bulky add-on interface modules, allowing for a clean, streamlined installation. The CSM-QMT-163-1-EX uses robust infiNET EX® wireless technology for communications. A Cresnet® wired version of the motor is also available (model **CSM-QMTDC-163-1-CN**).

The CSM-QMTDC-163-1-EX can integrate seamlessly into a Crestron control system, allowing it to be operated from keypads, wireless remotes, and touch screens. For easy setup, a local three-button interface lets users test shades after installation and also set shade limits. Power is supplied to the CSM-QMTDC-163-1-EX via dedicated Crestron power supplies, such as the CSA-PWS40 or CSA-PWS10S-HUB. The CSA-PWS10S-HUB is capable of distributing power to multiple shade motors from one unit, consolidating shade wiring to a central location.

Quiet Motor Technology

The shade motor utilizes the quiet, precision-controlled Quiet Motor Technology to control the movement of the shade, keep track of the shade's position, and adjust the shade to the user's desired preset positions.

infiNET EX

The CSM-QMTDC-163-1-EX employs the ultra-reliable infiNET EX wireless technology, which 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.[2]

The CSM-QMTDC-163-1-EX communicates with a Crestron control system via an infiNET EX Wireless Gateway (model **CEN-RFGW-EX**, **DIN-AP3MEX**, or **MC3**[3]). Up to 100 infiNET EX devices, including Cameo® Wireless Keypads and In-Wall Switches,[3] 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.[2] Built-in Dynamic Frequency Allocation continuously monitors RF conditions, automatically selecting the clearest channel to prevent interference from neighboring networks, cordless phones, and microwaves.

> *For Crestron® QMT®3 Series Architectural or QMT3 Series Décor System shades 17.5 in (445 mm) and larger[1]*

> *Long-life brushless motor featuring Digital Quiet Motor Technology? for nearly imperceptible operation*

> *Built-in infiNET EX® wireless communications*
> *Fully integrated design, with no external modules required*

> *24 Volt low-voltage power*
> *Real-time activity monitoring and status feedback*
> *Local pushbutton interface for testing shades and setting shade limits*

> *Local diagnostic LEDs to indicate shade status*
> *Smooth starts and stops with programmable stop points*
> *Reactive features that detect and react to obstructions in shade path to avoid motor damage*

> *Limited Lifetime Warranty*

SPECIFICATIONS

Motor Specifications
Torque: 3/4 Nm
Motor Speed: 10-30 rpm
Duty Cycle: 8 min on/40 min off @ 3/4 Nm
Shade Widths Supported: 17.5 in to 96 in (445 mm to 2439 mm), depending on fabric

Power Requirements
Cresnet® Power Usage: 42.5 Watts (1.8 Amps @ 24 Volts DC); Requires a CSA-PWS series power supply, see Available Accessories for model numbers

Wireless
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

CRESTRON®

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[2]

Gateway: Requires an infiNET EX gateway[3]

Connectors
NET: (1) 4-conductor pigtail with inline detachable terminal block[4]

Controls & Indicators
LED: (1) Multicolor LED, indicates motor status
Buttons: (3) Pushbuttons (DN, SET, UP), allows for testing and setting up shade

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

Dimensions
Diameter: 1 5/8 in (42 mm) motor end; 1 3/8 in (35 mm) idler end
Length: 13 1/4 in (337 mm)

Weight (without cables)
14.2 oz (402 g)

Available Models
CSM-QMTDC-163-1-EX: Digital QMT® Shade Motor for QMT3 Series, 3/4 Nm, infiNET EX®

Available Accessories
CSA-PWS40 [6505878]: Power Pack for Crestron® Shade Interfaces & Shade or Drapery Motors
CSA-PWS10S-HUB [6506308]: 10-Motor Power Supply and Cresnet® Hub [Discontinued]
CSA-PWS10S-HUB-CAEN-1X1 [6506320]: 10-Motor Power Supply and Cresnet® Hub w/CAEN-1X1 Enclosure [Discontinued]
CEN-RFGW-EX_EXCLUDES_PWE [6504388]: infiNET EX® & ER Wireless Gateway [Discontinued]
CLW-EXPEX-GD-W-T [6503621]: infiNET EX® Wireless Expander, Ground Pin Down, White Textured
MC3 [6504278]: 3-Series Control System® w/infiNET EX® & ER Wireless Gateway, includes PW-2420RU
DIN-AP3MEX [6506221]: DIN Rail 3-Series® Automation Processor w/ infiNET EX® & ER Wireless Gateway
GLA-EXPEX [6505246]: Crestron Green Light® Wireless Expander for infiNET EX® Networks [Limited Supply]