CSM-QMT50-DCEX

Crestron® QMT™ Motor for 38-Inch Roller Shades and Larger, infiNET EX®

> *For shades 38 inches and larger*
> *Crestron® 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*
> *Installs within shade motor tube*
> *Provides real-time activity and status feedback to processor*

NOTE: The CSM-QMT50-DCEX 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 Quiet Motor Technology™, the CSM-QMT50-DCEX motor provides quiet yet robust operation for Crestron roller shades 38 inches (96.52 cm) and larger. Fully integrated electronics eliminate the need for bulky add-on interface modules, allowing for a clean, streamlined installation. The CSM-QMT50-DCEX uses robust infiNET EX® wireless technology for communications. A Cresnet® version of the motor is also available (model CSM-QMT50-DCCN).

The CSM-QMT50-DCEX can integrate seamlessly into a Crestron control system 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-QMT50-DCEX via dedicated Crestron power supplies, such as 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.

An optional external antenna, the CSA-ANT-EXTRNL-QMT50, is available for the wireless CSM-QMT50-DCEX. This antenna is recommended for applications where the shade is recess mounted in a pocket, or anywhere the integrity of the wireless signal may be compromised by some obstruction or excess distance.

QMT™ Quiet Motor Technology
The Crestron CSM-QMT50-DCEX shade motor uses the quiet, precision-controlled Quiet Motor Technology (QMT) 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-QMT50-DCEX 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[1].

The CSM-QMT50-DCEX communicates with a Crestron control system via an infiNET EX Wireless Gateway (model CEN-RFGW-EX, DIN-AP3MEX, or MC3[2]). Up to 100 infiNET EX devices, including Cameo® Wireless Keypads and In-Wall Switches[2], 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[1].

SPECIFICATIONS

Motor Specifications

Torque: 6 Nm
Motor Speed: 10-25 rpm
Duty Cycle: 6 min on/6 min off
Shade Widths Supported: 38 in to 192 in (96.52 cm to 487.68 cm)
Insulation Class: III
Intrusion Protection (IP): 31

Power Requirements

Cresnet Power Usage: 50 Watts (2 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
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[1]
Gateway: Requires an infiNET EX gateway[2]

Connectors

NET: (1) 4-conductor pigtail with inline detachable terminal block[3]

CRESTRON®

Controls & Indicators

LED: (1) tri-color LED, indicates motor status
Buttons: (3) tactile buttons, (1) Raise button raises shade, (1) Lower button lowers shade, (1) Setup button can set shade limits or reverse roll direction of shade

Environmental

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

Dimensions

Height: 2.5 in (63.4 mm)
Width: 2.5 in (63.4 mm)
Length: 31.50 in (800 mm)

Weight

5.52 lb (2.5 kg)

MODELS & ACCESSORIES

Available Models

CSM-QMT50-DCEX: Crestron® QMT™ Motor for 38-Inch Roller Shades and Larger, infiNET EX®

Available Accessories

CEN-RFGW-EX: infiNET EX® Wireless Gateway Only for: CSM-QMT50-DCEX
CSA-PWS40: Power Pack for Crestron® Shade Interfaces & Roller Shade Motors
CLW-EXPEX-GD-W-T: infiNET EX® Wireless Expander, Ground Pin Down, White Textured
CSA-PWS10S-HUB: 10-Shade Power Supply and Cresnet® Hub
CSA-PWS10S-HUB-CAEN-1X1: 10-Shade Power Supply and Cresnet® Hub w/CAEN-1X1 Enclosure
GLA-EXPEX: Crestron Green Light® Wireless Expander for infiNET EX® Networks
CSA-ANT-EXTRNL-QMT50-W: External Antenna for CSM-QMT50-DCEX, White

Notes:

1. 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. A dedicated infiNET EX Wireless Expander, model CLW-EXPEX or GLA-EXPEX, is also available.
2. Item(s) sold separately.
3. Wireless does not communicate with Cresnet control network; Cresnet connection is for power only.

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

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