

# QIS SHADE CONTROL SYSTEM MOTORS

950127X

The unique QIS system offers both wired and wireless switch options for controlling shades

Using the QZ Hubs allows for control and setup using mobile app

QIS shade motors feature a unique counterbalance spring system that allows shades to be manually operated by pulling the hembar



QIS shade motors have integrated ZigBee 3.0 wireless for control using wireless switches and mobile apps

Low voltage shade motors are quiet and energy efficient

Power and control up to 8 low voltage shade motors from one power distributed panel

## DESCRIPTION

The Qadvanced Intelligent System (QIS) system low voltage motors incorporate both a wired connection and wireless ZigBee 3.0 built-in for a variety of control options. The QIS shade motors have a unique counter-balance spring design that allows shade to use less energy and for extremely quiet operation. This patented design also allows the shades to be manually pulled into position using the hembar. The low motors are powered by 24VDC coming from the power and control panel and there a number of wired and wireless switch options for control of the shades. In addition, an RS485 connection on the power panel allows for control of the Shade from Legrand Lighting control systems or third party systems including BMS and BACNet.

for up/down and preset control of the shades. The second is by using a battery powered Zigbee remote switch. All QIS shade motors have ZigBee 3.0 wireless control built in so switches can be remote and not hardwired to the power panel. Third methods uses the power panel RS485 connection to connect to Legrand Lighting and Control systems or third party systems for integrated control with lighting or building systems. Lastly, the shade can be manually pulled into position using the hembar.

## OPERATION

The QIS system offers a number of methods for controlling QIS shade motors. The first is using a hardwired QIS single or double switch connected to a QIS power panel via RJ45. This allows

## APPLICATIONS

QIS shades are recommended for virtually all applications, including offices, conference rooms and classrooms. They are ideal for any area where motorized or automated shade control is desired. The combination of low voltage shade motors and distributed control allows for quiet and energy efficient control of roller shades. In addition, the range of control options from wired to wireless allows for flexible control in both new construction and retrofit applications.

## FEATURES

- QIS Hardwired shades deliver a robust and dependable low voltage shade control system
- The unique counter-balance spring mechanism in the shade tube allows for manual operation of the shades
- Each shade motor can be controlled with both wired and wireless switches
- Shades can be controlled in four ways: 1) Using a hardwired QIS switch connected to the power panel, 2) Using a QdR2 ZigBee 3.0 wireless switch or 3) Using an iOS or Android app, 4) Using a third party system via RS485 or Zigbee. (The use of the App or QdR2 remotes requires a QzHub3 and a Zigbee network.)
- Connect up to 8 power panels to control up to 96 roller shades
- Each Power and Communication Panel can control up to 8 shades. Wired switches are connected to same ports as shades
- Power and Communication Panel comes with remote power supply for ease of wiring
- Each shade motor comes with a 6" or 35" wire whip for added flexibility when wiring the system
- Shade motor ships with a male connector and an inline coupler keystone so that the shade can be installed, regardless of the wire at hand
- Optional 4 conductor to RJ45 wiring adapter allows the installer to use existing 4 conductor cable to connect the motors. Ideal for retrofit applications

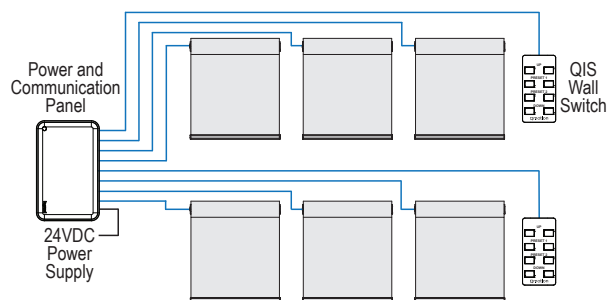
PROJECT	LOCATION/ TYPE
---------	-------------------

## SPECIFICATIONS

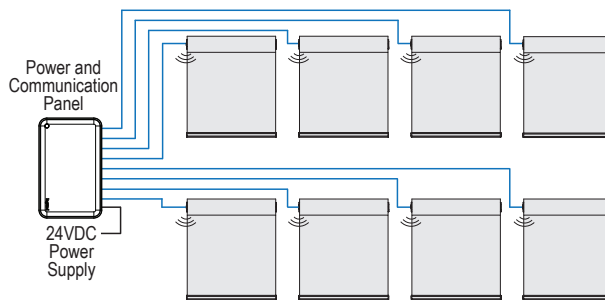
- Maximum power consumption of one power panel is 7.5Amp at 24VDC
- Maximum distance between shade and Power Communication Panel – 750 ft
- Each shade motor has ZigBee 3.0 two-way communication
- Max number of devices on a connected QIS system = 96
- Panels provide protection against short circuit or overload to individual shades.
- Maximum wire length for RS485 communication is 2,000 feet from source to shade.

## CONNECTIVITY

### Hard-Wired Switch Application



### ZigBee 3.0 Application

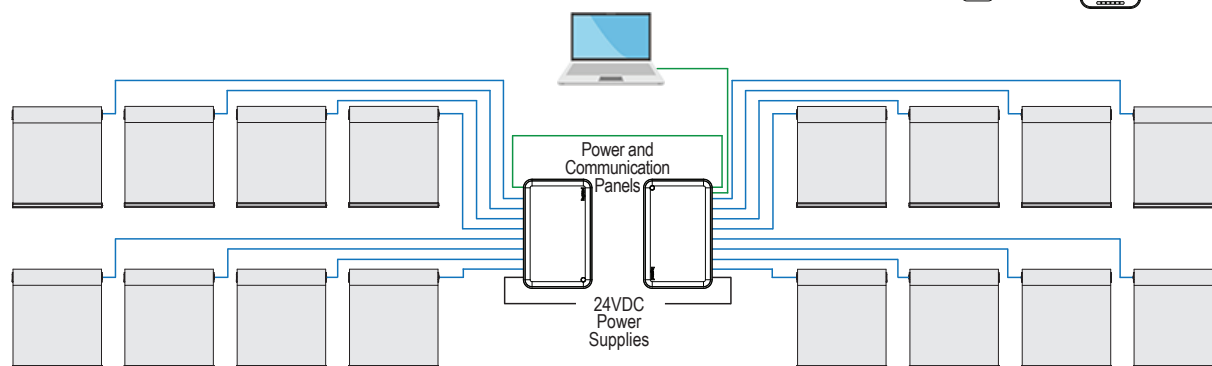


Cables from Power Panel to shades are RJ45

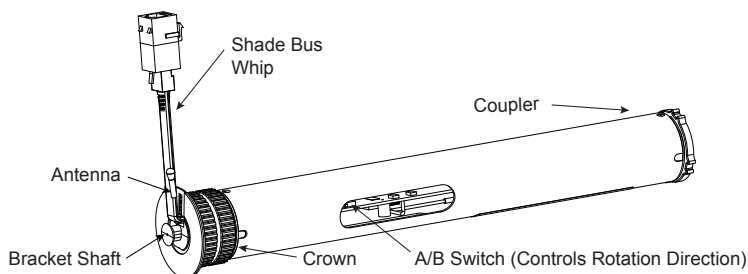
Cables from PC running Third Party Software are RS485



### Third Party Integration



## MOTOR CONTROL ASSEMBLY PARTS



## ORDERING INFORMATION

Catalog #	Description
9501276	QIS Motor Control Assembly, 24V, 40:1 Gear Ratio, 36" wire whip
9501277	QIS Motor Control Assembly, 24V, 73:1 Gear Ratio, 36" wire whip
9501278	QIS Motor Control Assembly, 24V, 40:1 Gear Ratio, 6" wire whip
9501279	QIS Motor Control Assembly, 24V, 73:1 Gear Ratio, 6" wire whip

D000103r3 Rev 03/22