

# Quick Connect

User Guide

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# 1 Important safety information

## 1.1 Safety warnings

1.1.1 Safety instructions: To reduce risk of injury or damage, carefully read and follow safety warnings, cautions and notices provided.

1.1.2 Safety warnings: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

### **WARNING**

1.1.3 Safety cautions: Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

### **CAUTION**

- Disconnect all input power before beginning installation to prevent electrical shock and equipment damage.

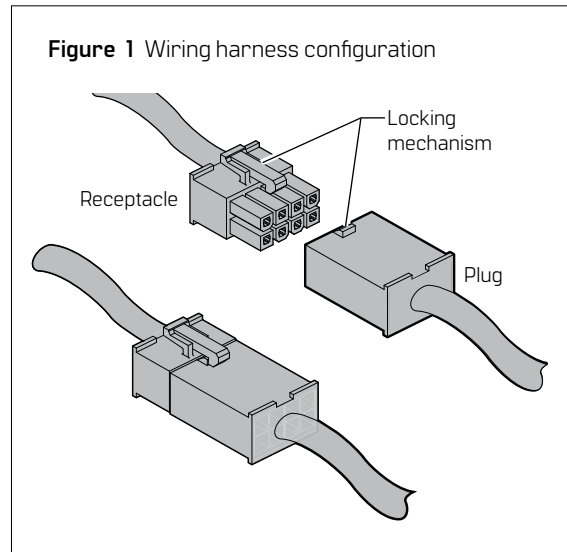
1.1.4 Notice: Indicates information considered important but not directly hazard-related.

### **NOTICE**

- Installer must be a trained, experienced service person.
- All wiring must comply with applicable local electrical codes, ordinances and regulations.
- The system is designed to be installation friendly with quick connectors from the electric hinge or power transfer through the door to the rail. The only wiring required is to the loose wires on the wire extension (WH-6E) or pigtail harness assembly on the frame side of the electric hinge.
- The plug and receptacle connectors are designed to mate and lock together as shown in the Fig. 1. Plug the connectors into each other with the locking mechanism aligned as indicated.
- Do not force connectors on any other way.

## 1.2 Wiring harness overview and application

Fig. 1



- A harness with 8 and 4-pin connectors will be pre-installed inside the door by the door manufacturer when specified during ordering process. The harness kits are also available for retrofit applications. For retrofit applications, refer to retrofit instructions.
- Wiring to a harness is per facility and code wiring requirement. The wire colors of the Quick Connect do not match up to the device being installed. So care will need to be taken when troubleshooting. This document identifies and defines the wire colors at the different positions in the assembly.
- If door does not have a jumper harness with connectors, consult the catalog for a wire extension (WH-6E) or cut connectors off product and hard wire as required.

## 2 Wire harness

### 2.1 Wire harness configurations

The harnesses are available in two wire harness configurations for the WH series. One version is fully terminated and has the connector bodies installed on both ends. The second version is fully terminated, but only has the connector bodies installed on one end. This harness is identified by a "P" designation at the end of the number. This configuration allows for the user to install the harness through the specified hole size that is listed in the product installation instructions. Please note that if you choose to use the WH series harness that have connectors at both ends the installation hole size for the wiring will need to be increased to 1". Additionally, there is a wire extension (WH-6E) which can be used to make the connection from the Quick Connect to the hardwired connection.

Table 1

Catalog code	Description	Catalog code	Description
WH-3	3" Wire harness terminated with connectors on both ends	WH-3P	3" Wire harness terminated with connectors on one end only
WH-6	6" Wire harness terminated with connectors on both ends	WH-6P	6" Wire harness terminated with connectors on one end only
WH-9	9" Wire harness terminated with connectors on both ends	WH-9P	9" Wire harness terminated with connectors on one end only
WH-12	12" Wire harness terminated with connectors on both ends	WH-12P	12" Wire harness terminated with connectors on one end only
WH-26	26" Wire harness terminated with connectors on both ends	WH-26P	26" Wire harness terminated with connectors on one end only
WH-32	32" Wire harness terminated with connectors on both ends	WH-32P	32" Wire harness terminated with connectors on one end only
WH-38	38" Wire harness terminated with connectors on both ends	WH-38P	38" Wire harness terminated with connectors on one end only
WH-44	44" Wire harness terminated with connectors on both ends	WH-44P	44" Wire harness terminated with connectors on one end only
WH-50	50" Wire harness terminated with connectors on both ends	WH-50P	50" Wire harness terminated with connectors on one end only
WH-192	192" Wire harness terminated with connectors on both ends	WH-192P	192" Wire harness terminated with connectors on one end only
WH-6E	6" Wire extension terminated and connectors on one end only		

**NOTE:** If you choose to use the WH series harness that have connectors at both ends the installation hole size for the wiring will need to be increased to 1".

## 3 Harness pinout and wire colors

### 3.1 4-pin connector pinout

Fig. 2

Figure 2 4-pin connector

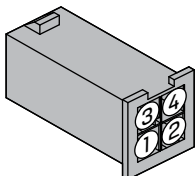


Table 2

4-pin connector	Pin 1	Pin 2	Pin 3	Pin 4
Wire color	Red	Pink	Gray	Black
Wire gauge	1 8 AWG	2 4 AWG	2 4 AWG	1 8 AWG

## 3.2 8-pin connector pinout

Fig. 3

**Figure 3** 8-pin connector

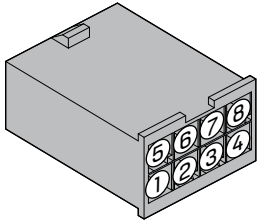


Table 3

8-pin connector	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Wire color	Blue	Purple	White	Tan	Yellow	Orange	Brown	Green
Wire gauge	2 4 AWG	2 4 AWG	2 4 AWG	2 4 AWG	2 4 AWG	2 4 AWG	2 4 AWG	2 4 AWG

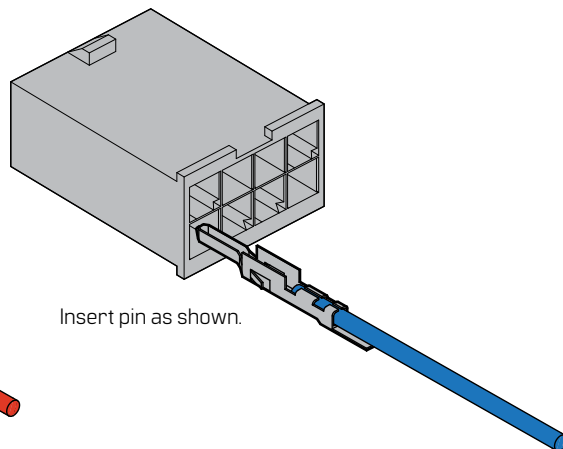
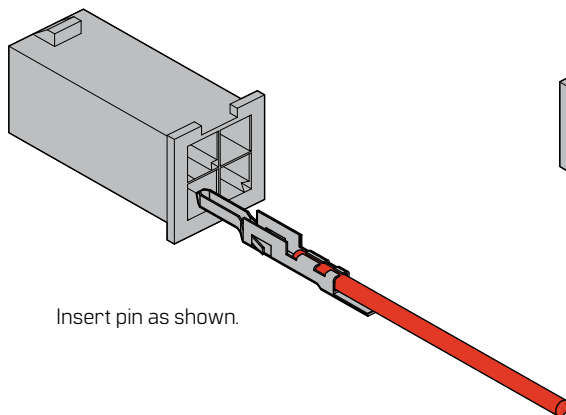
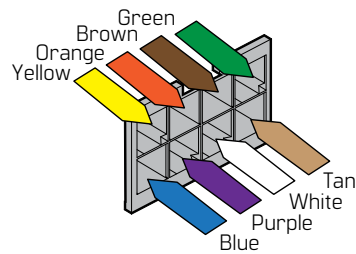
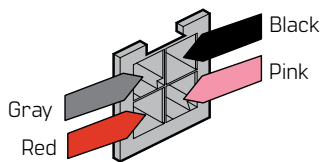
# 4 Pin connector assembly guide

## 4.1 Identifying pin connector positions

Fig. 4

**Figure 4** Pin connector identification

This can be used to aid in assembly of a pinned wire harness.



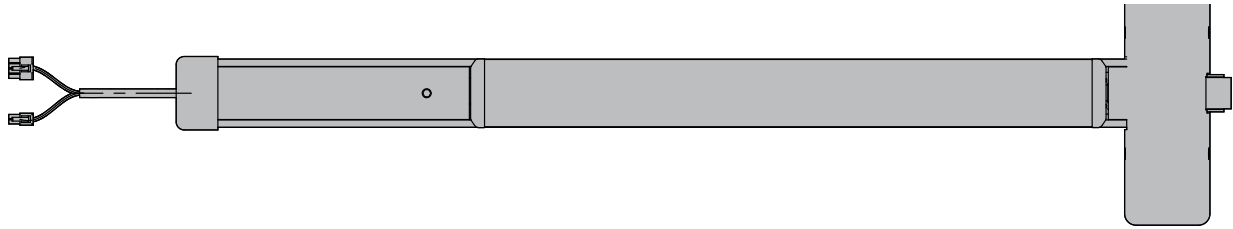
# 5 Exit device installation

## 5.1 Installation

Fig. 5

The below details the installation of the electrical connections using the Quick Connect. For all other installation information and troubleshooting consult the product installation instructions.

**Figure 5** Installation details



5.1.1 Mount the exit device per instruction sheet provided with the device. Plug jumper connector into electric hinge or power transfer connector. Mount electric hinge to door. If using power transfer (EPT), mount the EPT to the frame. Once door is installed then plug in the connectors.

**NOTE:** To ensure trouble-free operation, check that the push rail can be fully depressed. On vertical rod exit devices, check that the latch bolts do not go into hold back position until the push rail is fully depressed. Plug rail connector into jumper connector then feed through hole in door. Install rail mounting bracket with two screws supplied. Install rail endcap.

5.1.2 Go to (a) if wiring now. Go to (b) if wiring is to be done later.

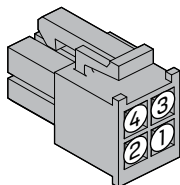
- **(a) Wire loose frame side wires to loose wires on pigtail harness as required using connectors allowed by local code. Plug wire harness connector into electric hinge or power transfer connectors. Feed harnesses through frame prep and mount electric hinge. Apply power and test exit device.**
- **(b) Plug wire harness connector into electric hinge connector. Feed harnesses through frame prep and mount electric hinge.**

## 5.2 Electric latch retraction (ELR)

Fig. 6

The Electric Latch Retraction (ELR) pinout is shown below as it comes out of the exit device. The wiring for this function is specific to the 4-pin connector. The 4-pin connector contains two 1.8 AWG wires that will support this function on the Precision exit device. The wire colors coming out of the device are listed below.

**Figure 6** 4-pin connector (ELR)



**Table 4**

4-pin connector	Pin 1	Pin 2	Pin 3	Pin 4
Wire color	White	Black	Black	White
Wire gauge	1.8 AWG	2.4 AWG	2.4 AWG	1.8 AWG
ELR Circuit	Solenoid	Feedback switch	Feedback switch	Solenoid

## 5.3 Touchbar monitoring switch (TS)

Fig. 7

The Touchbar Monitoring Switch (TS) pinout is shown below as it comes out of the exit device. The wiring for this function is specific to the 8-pin connector. The 8-pin connector contains three 24 AWG wires that will support this function on the Precision exit device. The wire colors coming out of the device are listed below. The Quick Connect does not support the TDS feature. To use the TDS feature the unit must be hard wired through a power transfer device.

**Figure 7** 8-pin connector (TS)

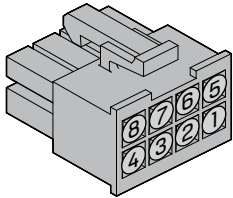


Table 5

8-pin connector	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Wire color	Blue	Violet	Red	N/A	N/A	N/A	N/A	N/A
Wire gauge	24 AWG	24 AWG	24 AWG	N/A	N/A	N/A	N/A	N/A
TS circuit	Common	Normally closed	Normally open	N/A	N/A	N/A	N/A	N/A

## 5.4 Latchbolt monitoring switch (LS)

Fig. 8

The Latchbolt monitoring switch (LS) pinout is shown below as it comes out of the exit device. The wiring for this function is specific to the 8-pin connector. The 8-pin connector contains three 24 AWG wires that will support this function on the Precision exit device. The wire colors coming out of the device are listed below. The Quick Connect does not support the LDS feature. To use the LDS feature the unit must be hard wired through a power transfer device.

**Figure 8** 8-pin connector (LS)

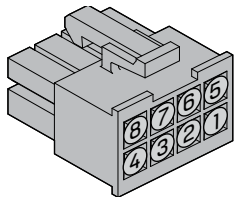


Table 6

8-pin connector	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Wire color	N/A	N/A	N/A	Tan	Yellow	Orange	N/A	N/A
Wire gauge	N/A	N/A	N/A	24 AWG	24 AWG	24 AWG	N/A	N/A
TS circuit	N/A	N/A	N/A	Common	Normally closed	Normally Open	N/A	N/A

# 6 Mortise device installation

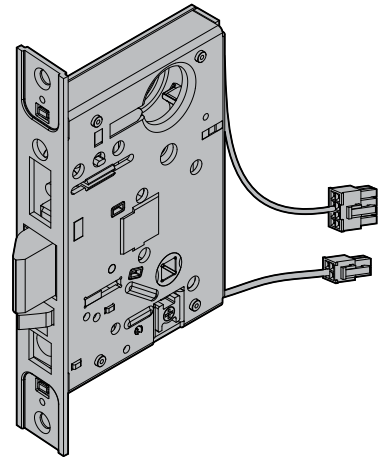
## 6.1 Installation

Fig. 9

The below details the installation of the electrical connections using the Quick Connect. For all other installation information and troubleshooting consult the product installation instructions.

- 6.1.1 Plug mortise connectors into jumper connector and plug TCM into the lockset. Plug Quick Connect end of the TCM into the harness and then feed through hole in door.
- 6.1.2 Plug jumper connector into electric hinge or power transfer connector. Mount electric hinge to door. If using power transfer (EPT), mount the EPT to the frame. Once door is installed then plug in the connectors. Mount the Mortise per instruction sheet provided with the lockset.
- 6.1.3 Go to (a) if wiring now. Go to (b) if wiring is to be done later.
  - **(a) Wire loose frame side wires to loose wires on pigtail harness as required using connectors allowed by local code. Plug wire harness connector into electric hinge or power transfer connectors. Feed harnesses through frame prep and mount electric hinge. Apply power to test mortise lockset.**
  - **(b) Plug wire harness connector into electric hinge connector. Feed harnesses through frame prep and mount electric hinge.**

Figure 9 Mortise device with connectors



## 6.2 1 2 and 2 4 VDC power

Fig. 10

The Power connection pinout is shown below as it comes out of the mortise. The wiring for this function is specific to the 4-pin connector. The 4-pin connector contains two 1 8 AWG wires that will support this function on the mortise device. The wire colors coming out of the device are listed below.

Figure 10 4-pin connector (1 2/2 4 VDC)

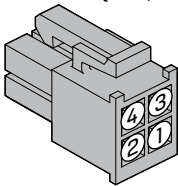


Table 7

4-pin connector	Pin 1	Pin 2	Pin 3	Pin 4
Wire color	Red	N/A	N/A	Black
Wire gauge	1 8 AWG	N/A	N/A	1 8 AWG
1 2/2 4 VDC	Power (+)	N/A	N/A	Power (-)

### 6.3 Request to exit (RQE) status

Fig. 1 1

The Request to Exit (RQE) status pinout is shown below as it comes out of the mortise. The wiring for this function is specific to the 8-pin connector. The 8-pin connector contains four 24 AWG wires that will support this function on the mortise device. The wire colors coming out of the device are listed below.

**Figure 1 1** 8-pin connector (RQE)

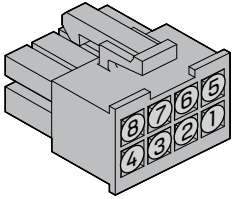


Table 8

8-pin connector	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Wire color	Brown	Orange	N/A	N/A	N/A	N/A	Brown	Orange
Wire gauge	24 AWG	24 AWG	N/A	N/A	N/A	N/A	24 AWG	24 AWG
RQE status	Normally open (case)	Normally open (case)	N/A	N/A	N/A	N/A	Normally open (cover)	Normally open (cover)

### 6.4 Latchbolt status

Fig. 1 2

The Latchbolt status pinout is shown below as it comes out of the mortise. The wiring for this function is specific to the 8-pin connector. The 8-pin connector contains two 24 AWG wires that will support this function on the mortise device. The wire colors coming out of the device are listed below.

**Figure 1 2** 8-pin connector (Latchbolt status)

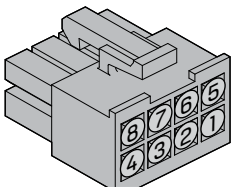


Table 9

8-pin connector	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Wire color	N/A	N/A	Violet	Violet	N/A	N/A	N/A	N/A
Wire gauge	N/A	N/A	24 AWG	24 AWG	N/A	N/A	N/A	N/A
LatchBolt status	N/A	N/A	Normally closed	Normally closed	N/A	N/A	N/A	N/A

## 6.5 Door status

Fig. 1 3

The door status pinout is shown below as it comes out of the mortise. The wiring for this function is specific to the 8-pin connector. The 8-pin connector contains two 2 4 AWG wires that will support this function on the mortise device. The wire colors coming out of the device are listed below.

**Figure 1 3** 8-pin connector  
(Door status)

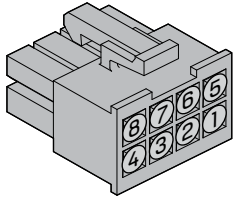


Table 10

8-pin connector	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Wire color	N/A	N/A	N/A	N/A	White	White	N/A	N/A
Wire gauge	N/A	N/A	N/A	N/A	2 4 AWG	2 4 AWG	N/A	N/A
Door status	N/A	N/A	N/A	N/A	Normally open	Normally open	N/A	N/A

# 7 9K cylindrical installation

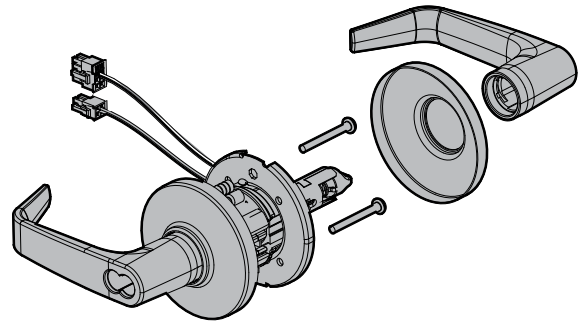
## 7.1 Installation

Fig. 1 4

The below details the installation of the electrical connections using the Quick Connect. For all other installation information and troubleshooting consult the product installation instructions.

- 7.1.1 Plug 9K RQE connector (if present) into jumper connector. Plug TCM into the lock and plug Quick Connect end of the TCM into the harness and then feed harness through hole in door. Install 9K lockset per instructions.
- 7.1.2 Plug jumper connector into electric hinge or power transfer connector. Mount electric hinge to door. If using power transfer (EPT), mount the EPT to the frame.
- 7.1.3 Go to (a) if wiring now. Go to (b) if wiring is to be done later.
  - (a) Wire loose frame side wires to loose wires on pigtail harness as required using connectors allowed by local code. Plug wire harness connector into electric hinge or power transfer connectors. Feed harnesses through frame prep and mount electric hinge. Apply power to test cylindrical lockset.
  - (b) Plug wire harness connector into electric hinge connector. Feed harnesses through frame prep and mount electric hinge.

Figure 1 4 9K cylindrical device with connectors



## 7.2 1 2 and 2 4 VDC power

Fig. 1 5

The Power connection pinout is shown below as it comes out of the 9K lockset. The wiring for this function is specific to the 4-pin connector. The 4-pin connector contains two 1 8 AWG wires that will support this function on the cylindrical device. The wire colors coming out of the device are listed below.

Figure 1 5 4-pin connector (1 2/2 4 volt power)

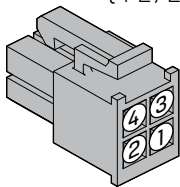


Table 11

4-pin connector	Pin 1	Pin 2	Pin 3	Pin 4
Wire color	Red	N/A	N/A	Black
Wire gauge	1 8 AWG	N/A	N/A	1 8 AWG
1 2/2 4 VDC	Power (+)	N/A	N/A	Power (-)

## 7.3 Request to exit (RQE) status

Fig. 1 6

The Request to Exit (RQE) status pinout is shown below as it comes out of the 9K lockset. The wiring for this function is specific to the 8-pin connector. The 8-pin connector contains three 2 4 AWG wires that will support this function on the cylindrical device. The wire colors coming out of the device are listed below.

**Figure 1 6** 8-pin connector (RQE)

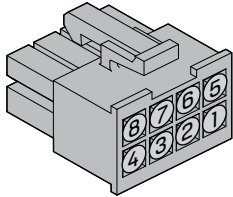


Table 12

8-pin connector	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Wire color	N/A	N/A	N/A	N/A	N/A	Orange	Brown	Green
Wire gauge	N/A	N/A	N/A	N/A	N/A	2 4 AWG	2 4 AWG	2 4 AWG
RQE status	N/A	N/A	N/A	N/A	N/A	Normally open	Common	Normally closed

# 8 Power transfer (EPT) installation

## 8.1 Installation

Fig. 1 7, Fig. 1 8, Fig. 1 9

The below details the installation of the electrical connections using the Quick Connect. For all other installation information and troubleshooting consult the product installation instructions.



**CAUTION: Disconnect all input power before beginning installation to prevent electrical shock and equipment damage.**

### NOTICE

- Installer must be a trained, experienced service person.
- All wiring must comply with applicable local electrical codes, ordinances and regulations.

8.1.1 Mount the Power Transfer (EPT) per instruction sheet provided with the device.

8.1.2 Once door is installed then plug the connectors.

Figure 1 7 Power transfer (EPT)

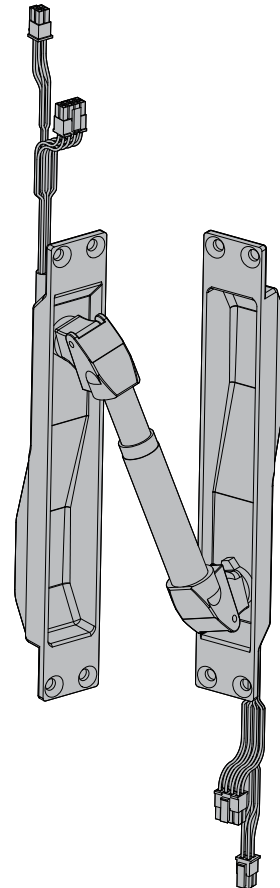


Figure 1 8 4-pin connector (EPT)

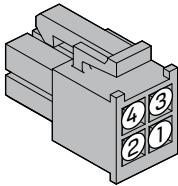


Table 13

4-pin connector	Pin 1	Pin 2	Pin 3	Pin 4
Wire color	Red	Pink	Gray	Black
Wire gauge	1 8 AWG	2 4 AWG	2 4 AWG	1 8 AWG

Figure 1 9 8-pin connector (EPT)

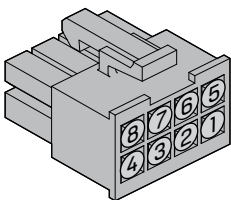


Table 14

8-pin connector	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Wire color	Blue	Purple	White	Tan	Yellow	Orange	Brown	Green
Wire gauge	2 4 AWG	2 4 AWG	2 4 AWG	2 4 AWG	2 4 AWG	2 4 AWG	2 4 AWG	2 4 AWG

# 9 Electrified hinge installation

## 9.1 Installation

Fig. 2 0, Fig. 2 1, Fig. 2 2

The below details the installation of the electrical connections using the Quick Connect. For all other installation information and troubleshooting consult the product installation instructions.

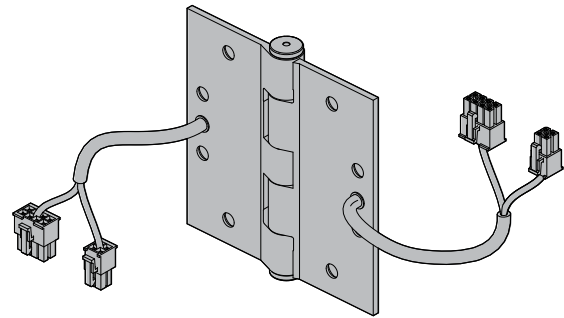


**CAUTION: Disconnect all input power before beginning installation to prevent electrical shock and equipment damage.**

### NOTICE

- Installer must be a trained, experienced service person.
- All wiring must comply with applicable local electrical codes, ordinances and regulations.

Figure 2 0 Electrified hinge



9.1.1 Mount the Electrified Hinge per instruction sheet provided with the device.

9.1.2 Once door is installed then plug the connectors.

Figure 2 1 4-pin connector

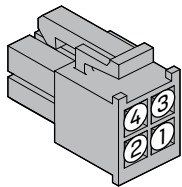
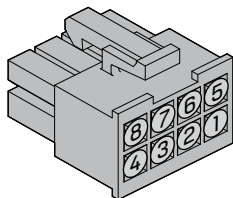


Table 15

4-pin connector	Pin 1	Pin 2	Pin 3	Pin 4
Wire color	Red	Pink	Gray	Black
Wire gauge	1 8 AWG	2 8 AWG	2 8 AWG	1 8 AWG

Figure 2 2 8-pin connector



8-pin connector	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Wire color	Blue	Purple	White	Tan	Yellow	Orange	Black	Green
Wire gauge	2 8 AWG	2 8 AWG	2 8 AWG	2 8 AWG	2 8 AWG	2 8 AWG	2 8 AWG	2 8 AWG





**Document translations available.**

**Scan for product details and downloads.**

Call 1-800-392-5209 or visit

<https://dhwsupport.dormakaba.com/hc/en-us>

for assistance and warranty information.

**⚠ WARNING!** This Manufacturer advises that no lock can provide complete security by itself. This lock may be defeated by forcible or technical means, or evaded by entry elsewhere on the property. No lock can substitute for caution, awareness of your environment, and common sense. Builder's hardware is available in multiple performance grades to suit the application. In order to enhance security and reduce risk, you should consult a qualified locksmith or other security professional.