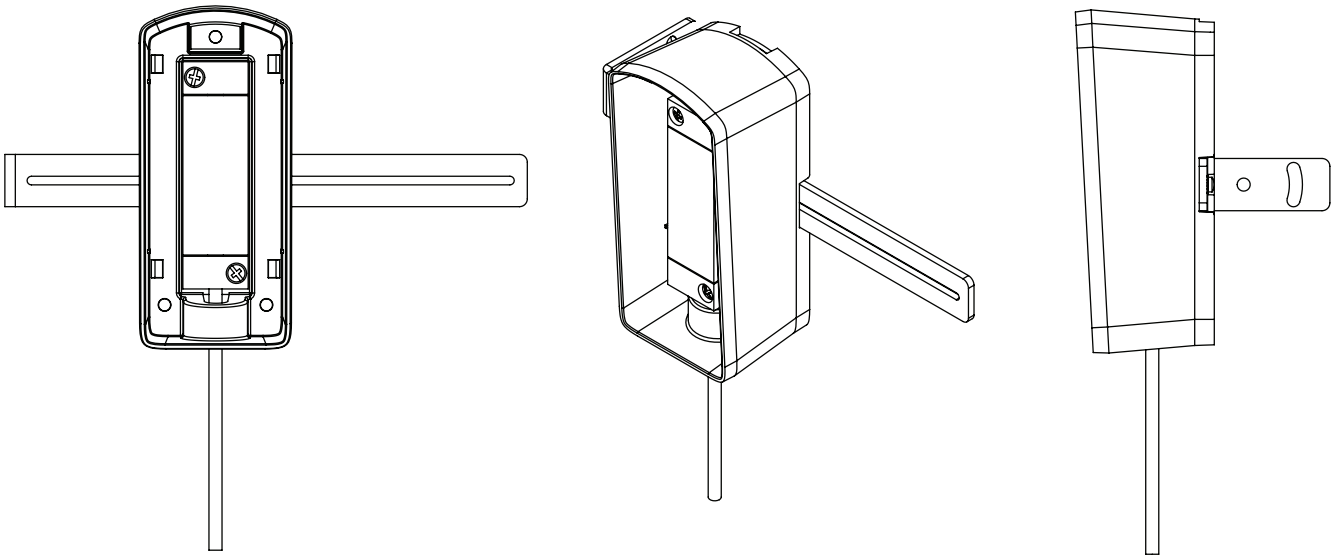
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HPS15

Installation and Users Manual for HPS15 Protector System
Monitored Reflective PE Beam Kit

This manual contains IMPORTANT SAFETY information
DO NOT PROCEED WITH THE INSTALLATION BEFORE READING THOROUGHLY

SAFETY INSTRUCTIONS

WARNING: THESE ARE IMPORTANT SAFETY INSTRUCTIONS.
FOLLOW ALL INSTRUCTIONS AS INCORRECT INSTALLATION CAN LEAD TO SEVERE INJURY OR DEATH
SAVE these instructions

The equipment has been designed and tested to offer safe service provided it is installed, operated, maintained and tested in strict accordance with the instructions and warnings contained in this manual.

WARNING
Mechanical

When you see this Safety Symbol and Signal Words on the following pages, they will alert you to the possibility of serious injury or death if you do not comply with the warnings that accompany them. The hazard may come from something mechanical.

- Keep commercial door balanced. Sticking or binding doors must be repaired. Commercial doors, door springs, pulleys, brackets and their hardware are under extreme tension and can cause serious personal injury. Do not attempt to loosen, move or adjust them. Call for commercial door service.
- Do not wear rings, watches or loose clothing while installing or servicing a commercial door operator.
- To avoid serious personal injury from entanglement, remove all ropes connected to the commercial door before installing the door operator.
- After the installation a final test of the full function of the system and the full function of the safety devices must be done.
- When operating a biased-off switch, make sure that other persons are kept away.
- The operator cannot be used with a driven part incorporating a wicket door (unless the operator cannot be operated with the wicket door open).
- Operator may become hot during operation. Appropriate clearance and/or shielding should be supplied by the installer to ensure any cabling, wiring and/or other items cannot come in contact with the operator. If temperature rise exceeds 50°C all fixed wiring insulation must be protected, for example, by insulating sleeving having an appropriate temperature rating.
- Do not allow children to play with operator wall controls or remote transmitters. Keep remote transmitters away from children.
- Permanently fasten all supplied labels adjacent to the wall control as a convenient reference and reminder of safe operating procedures.
- Disengage all existing commercial door locks to avoid damage to commercial door. Install the wall control (or any additional push buttons) in a location where the commercial door is visible during operation . Do not allow children to operate push button(s) or remote transmitter(s). Serious personal injury from a closing commercial door may result from misuse of the operator.
- Activate operator only when the door is in full view, free of obstructions and operator is properly adjusted. No one should enter or leave the building while the door is in motion.
- The actuating member of a biased-off switch is to be located within direct sight of the door but away from moving parts. Unless it is key operated, it is to be installed at a minimum height of 1500mm and not accessible to the public.
- Make sure that people who install, maintain or operate the door follow these instructions. Keep these instructions in a safe place so that you can refer to them quickly when you need to.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- Use the operator for its intended purpose. GLM6 series controls are designed for operating Grifco operators on spring balanced roller shutters, spring balanced roller doors and counterweighted bi-fold and vertical lift doors.
- If the operator is installed at a height less than 2.5 metres from floor level or any other level from which the unit can be accessed (eg mezzanine) the installer is responsible to fit guards to the operator to prevent access to the chain drive.
- Automatic Drive - Keep away from the area of the door as it may operate unexpectedly.
- Ensure that entrapment when operating the door in the open direction is avoided.

WARNING
Electrical

When you see this Safety Symbol and Signal Words on the following pages, they will alert you to the possibility of serious injury or death if you do not comply with the warnings that accompany them. The hazard may come from electric shock.

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Installation and wiring must be in compliance with your local building and electrical codes. Connect the power supply cord only to properly earthed mains.
- Moisture and water can destroy the electronic components. Make sure under all circumstances that water moisture or storage moisture cannot penetrate the electronics. The same applies for openings and cable entries.
- An electrician must disconnect electric power to the commercial door operator before making repairs or removing covers.

CAUTION

When you see this Signal Word on the following pages, it will alert you to the possibility of damage to your commercial door and/or the commercial door operator if you do not comply with the cautionary statements that accompany it.

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CHAMBERLAIN LIMITED WARRANTY **20**

CARTON INVENTORY

Included in the carton

1 x Photoelectric sensor with hood and cable

2 x Mounting brackets

1 x Reflector with hood

1 x Installation Instructions

4 x Self Tapping Screws

OVERVIEW

The HPS15 is a single sided safety device providing monitored Entrapment Protection device for use with Merlin® or Grifco® door operators and may be installed in areas exposed to rain or moisture up to an IP65 rating.

The HPS15 is designed to increase the safety and functionality of your gate opener or garage door opener.

The system uses an invisible beam across the garage door opening. If an obstruction breaks the light beam while the door or gate is closing, the door or gate will stop and reverse to full open position*.

NOTE: The HPS15 is only compatible with the Merlin® or Grifco® products listed below. Use with ANY other product voids warranty.

Merlin

SLIDE 600

SWING A 200

SWING L 300

MR555MYQ

MR655MYQ / MR855MYQ

MJ3800MYQ

MS65MYQ / MS105MYQ**

MS125MYQ / MS135MYQ**

Grifco

LR-Drive

LG-Drive

E-Drive+2.0 / E-Drive+2.0 GLM**

E-DriveMYQ / E-DriveMYQ GLM**

S-Drive**

LS-Drive (post Jan 2019)**

* Alternate functionality can be configured dependent on the opener.

e.g Gate openers, S-Drive and E-DriveMYQ (V2) can be configured to detect an obstruction in the OPEN direction.

** The HPS15 is supplied with a 2m cable. If used with this operator, the cable needs to be extended.



WARNING

Please read these instructions carefully.

Failure to follow the instructions will void the warranty.

Failure to follow the instructions may result in injury, death or damage to property.

After the installation, a final test of the full function of the system and, where present, the full function of the safety devices must be performed. Do not place hands or tools near the operator when power is on when testing controls or safety devices.

Always disconnect power before servicing or adjusting the operator.

PLANNING

Identify the type and dimensions of your residential or commercial door or gate.

A check of the application is recommended to ensure suitability of the Entrapment Protection device model to the door/gate.

When properly connected and aligned, the photoelectric sensor will detect an obstruction in the path of its beam.

If an obstruction breaks the beam while the door/gate is moving, the operator will stop and reverse either partially or to a limit, dependent on opener model and configuration.

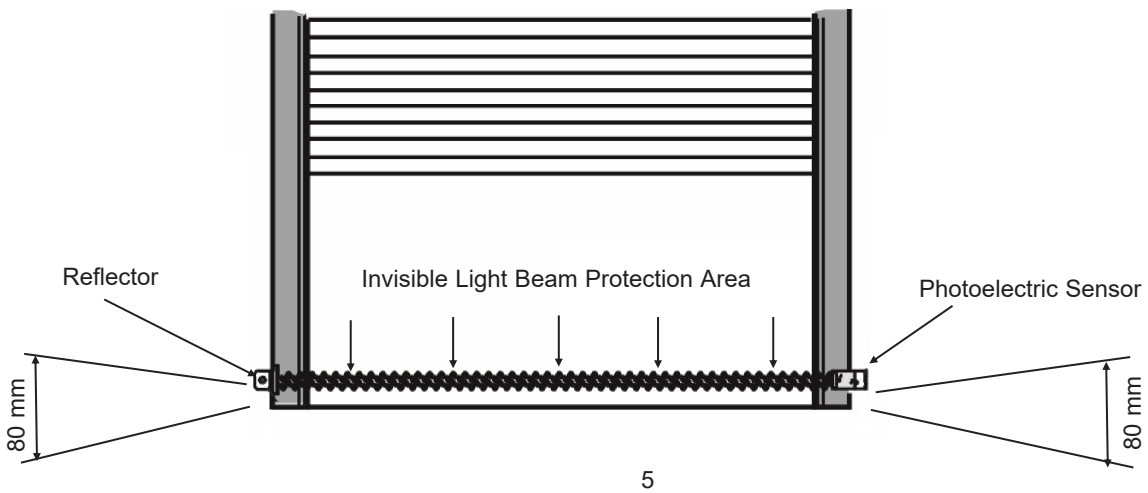
Check the following:

- **Minimum distance between the transmitter and reflector 1.5m, Maximum distance 15m.**
- **The HPS15 is supplied with 2m of cable.**
- Photoelectric sensor can be mounted either left or right of the entrapment zone.
- The brackets must be installed securely to a solid surface such as the wall.
- The photoelectric sensor must be installed so that it faces the reflector across the entrapment zone without any obstructions.
- No part of the door (or door tracks, springs, hinges, rollers or other hardware) can obstruct the beam while the door is closing.
- There is clearance either side of the door/gate for the mounting brackets to be installed without any obstructions.
- Any environmental issue that may impede the operation of the HPS15. (e.g. condensation, direct sunlight)
- Any reflective surface on vehicles or surroundings that may affect the operation of the HPS15.
- When installing HPS15 with bi-fold doors, position the photoelectric sensor and reflector so that the door does not break the beam as it is operated.
- When installing multiple HPS15's, ensure they are installed so that they function independently of each other, and the photoelectric sensors do not align with the other reflector.

ENTRAPMENT PROTECTION

The Entrapment Protection System for your installation will be determined by the functional requirements of the door or gate.

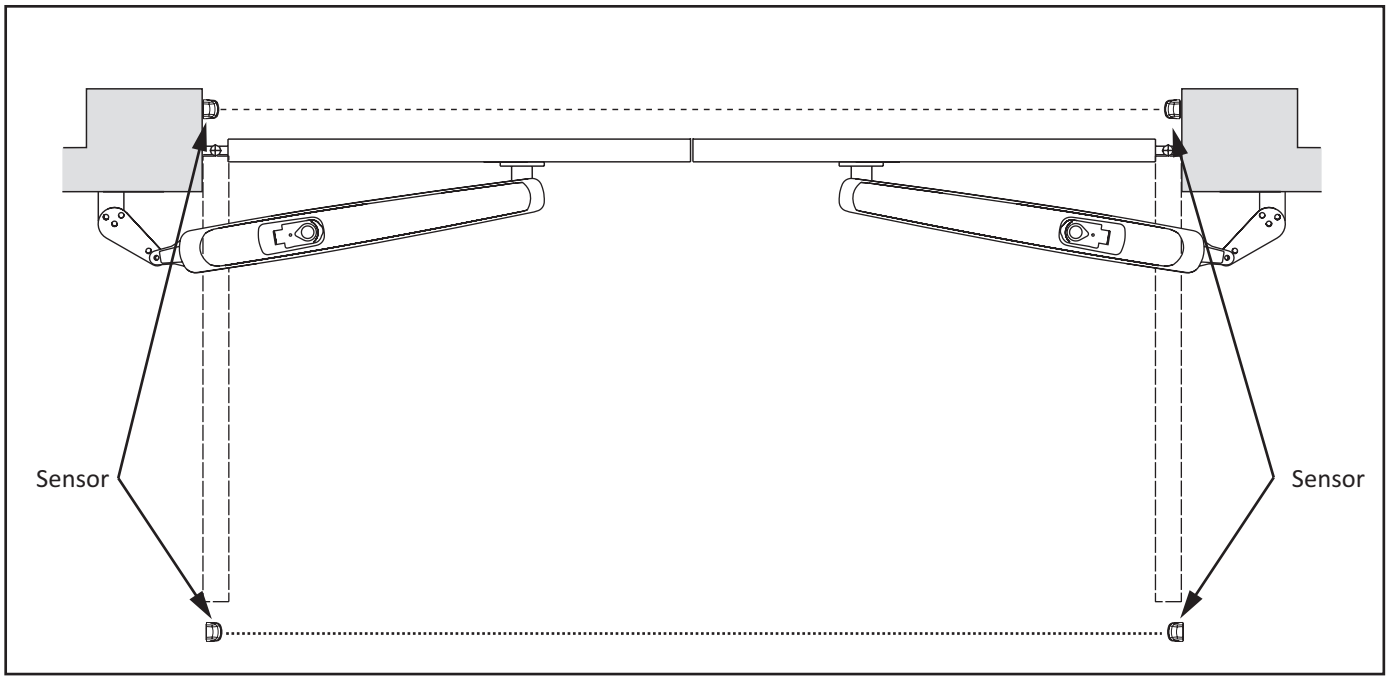
To ensure the installation meets these requirements, refer to AS/NZS 60335-2-103.
When using the HPS15 as part of the Entrapment Protection System, ensure it is installed to detect a 100mm high obstruction, ie; approximately 80mm from the floor.
Consideration should be given to the detection of vehicles or other similar equipment. To provide adequate Entrapment Protection, additional Entrapment Protection System devices may be required to be installed at a site specific height.
Make sure the brackets are aligned so that the photoelectric sensor and reflector will face each other across the entrapment zone as illustrated.



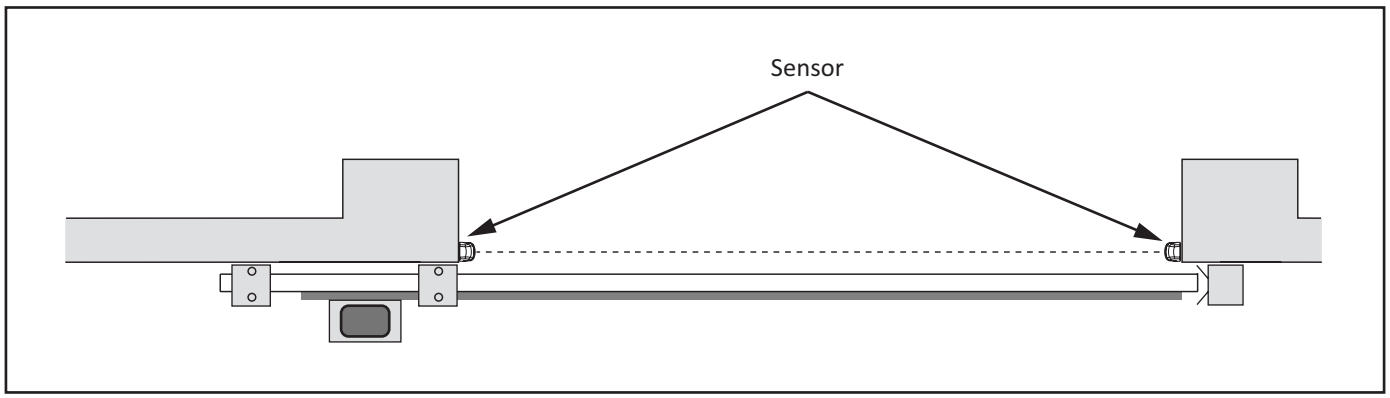
ENTRAPMENT PROTECTION

Install the HPS15's in a position to protect The Entrapment Protection Zone and not be obstructed by the moving gate, ideally with the sensor positioned close to the Gate Control Box.

Swing Gate:



Sliding Gate:



WALL MOUNTING - GATES

NOTE: The sensors require mounting to a fixed post or wall.
Ensure no part of the door or gate (door tracks, springs, hinges, rollers or other hardware) interrupts the beam while the door or gate is moving. If the door or gate obstructs the beam, relocate the sensor to a position that allows the beam to be as close as possible, without being obstructed. The invisible light beam path must be unobstructed.

WALL MOUNTING

Figure 1 refers to the installation of the reflector mounted flush. Figure 2 refers to the installation of the photoelectric sensor mounted using the brackets.

Each Photoelectric sensor must be mounted opposite a reflector.

The photoelectric sensor (A) must be installed to detect an obstacle of 100mm height. If additional detection height is required, install a second photoelectric sensor (B) to meet the functional requirements of the gate. Caution! Do not bend the bracket to align the photoelectric sensor and the reflector.

Use 5.5mm or 6mm masonry drill bits and 6mm (green) wall plugs and screws to install the bracket to the wall. The photoelectric sensor and the reflector should be mounted at the same height from the floor in order to achieve correct alignment.
Install the secondary HPS15 (B) at a height above the primary HPS15 (A) so that each HPS15 set works independently of each other, and the sensors do not align with the other reflector.

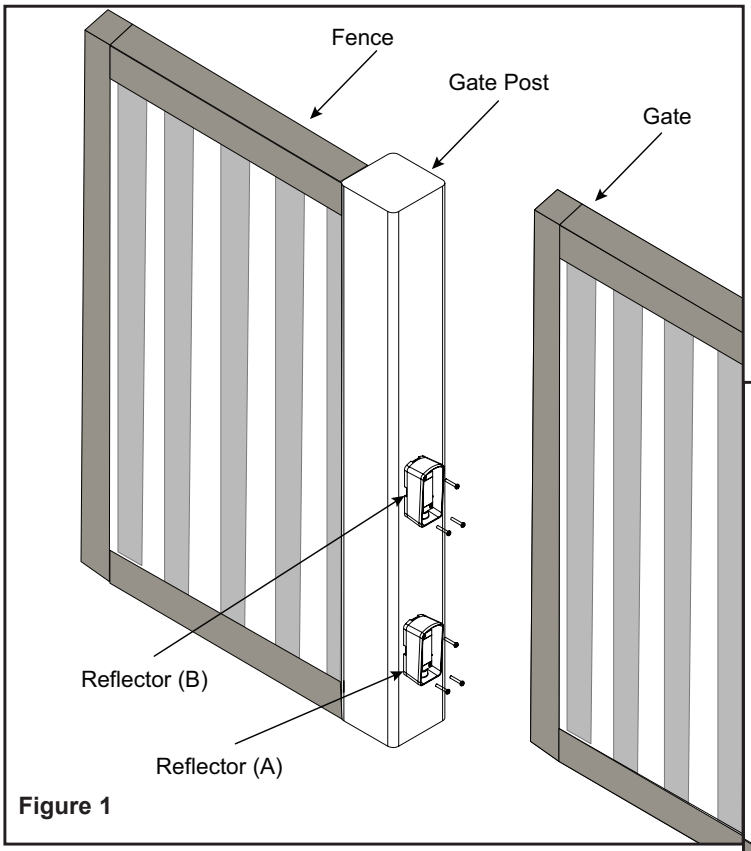
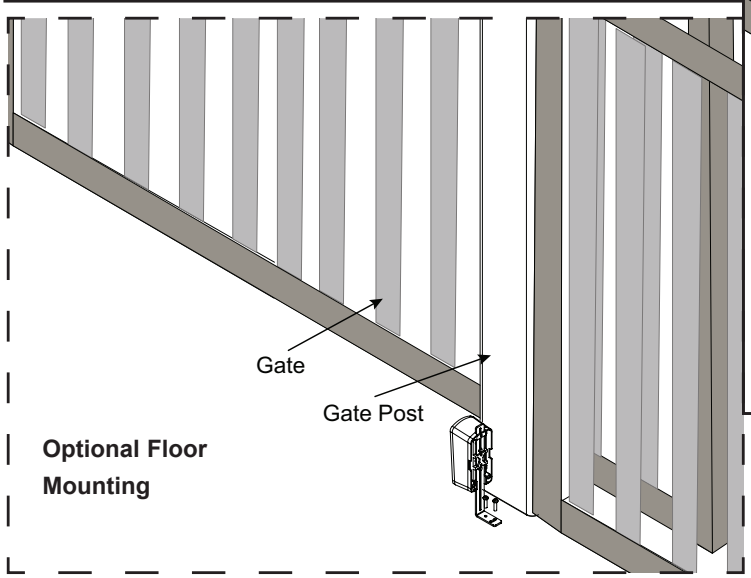


Figure 1



Optional Floor Mounting

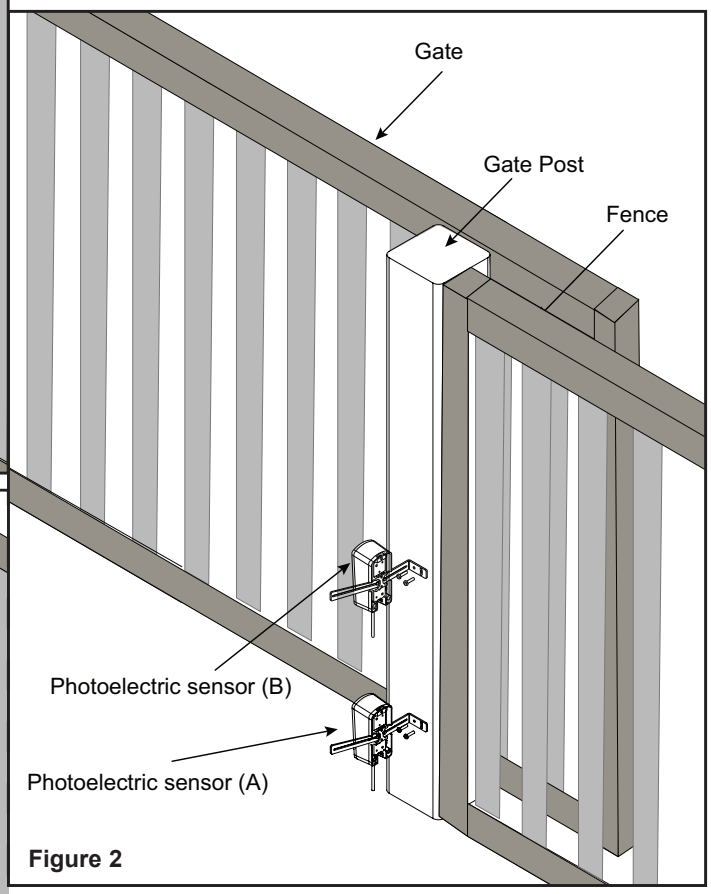


Figure 2

WALL MOUNTING - DOOR

NOTE: The sensors require mounting to a fixed post or wall.
Ensure no part of the door or gate (door tracks, springs, hinges, rollers or other hardware) interrupts the beam while the door or gate is moving. If the door or gate obstructs the beam, relocate the sensor to a position that allows the beam to be as close as possible, without being obstructed. The invisible light beam path must be unobstructed.

WALL MOUNTING

Figure 1 refers to the installation of the photoelectric sensor and figure 2 refers to the installation of the reflector. The photoelectric sensor (A) must be installed to detect an obstacle of 100mm height.

If additional detection height is required, install a second photoelectric sensor (B) to meet the functional requirements of the door.
Caution! Do not bend the bracket to align the photoelectric sensor and the reflector.

Use 5.5mm or 6mm masonry drill bits and 6mm (green) wall plugs and screws to install the bracket to the wall. The photoelectric sensor and the reflector should be mounted at the same height from the floor in order to achieve correct alignment.
Install the secondary HPS15 (B) at a height above the primary HPS15 (A) so that each HPS15 set works independently of each other, and the sensors do not align with the other reflector.

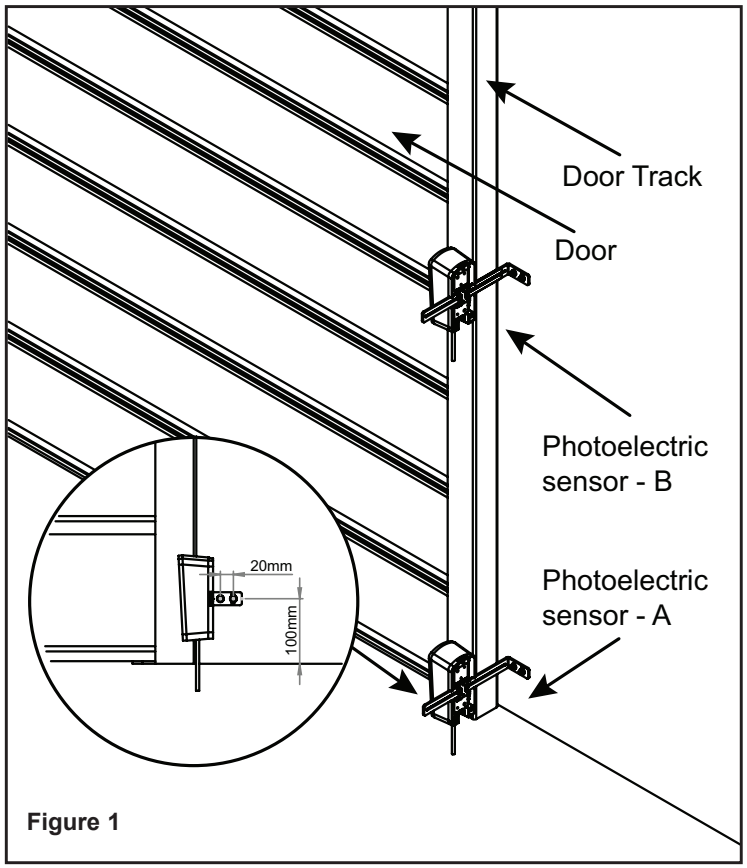


Figure 1

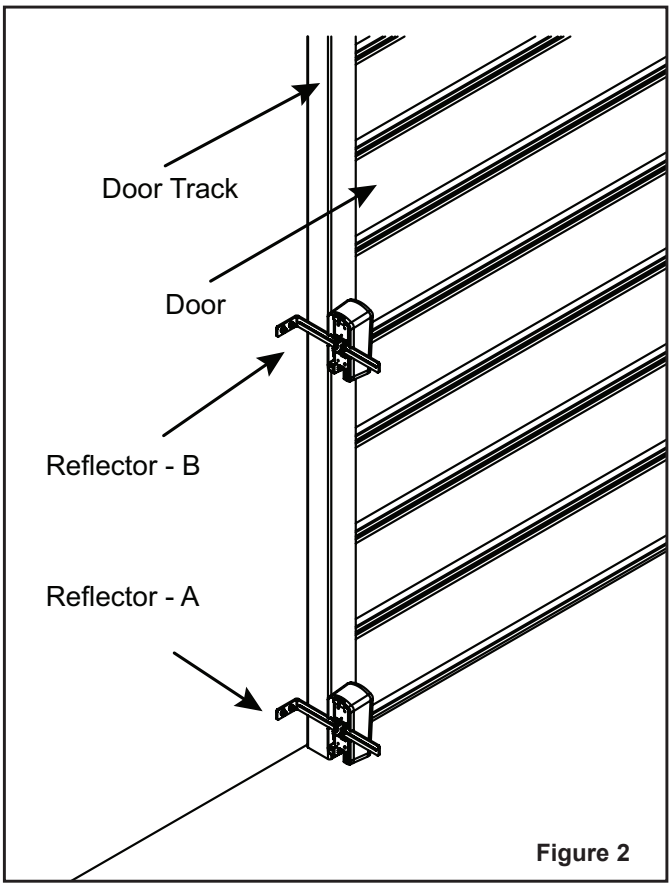
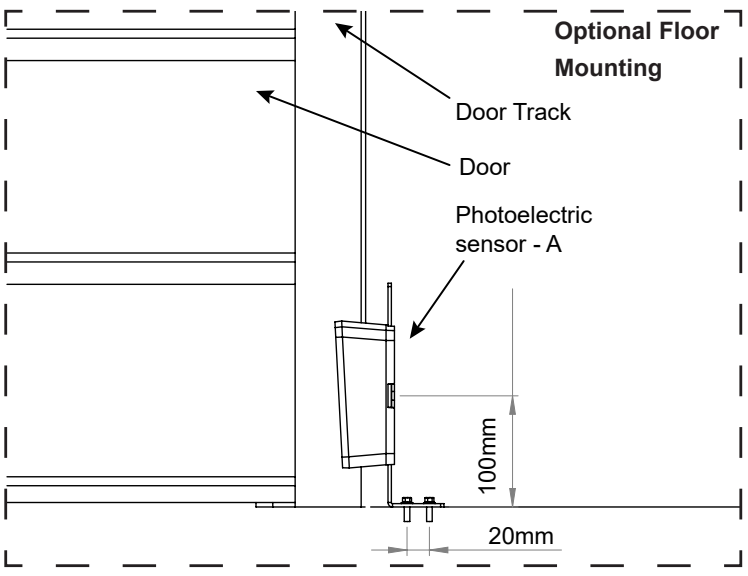


Figure 2



ALIGNMENT

The photoelectric sensor and reflector must be on the same horizontal plane to each other. When properly wired and aligned, the yellow LED within the photoelectric sensor WILL NOT be illuminated. The LED within the photoelectric sensor will blink rapidly when the sensor is not at the optimal position. If the LED is solidly illuminated this indicates it is powered up correctly and is NOT aligned with the reflector.

Figure 3 refers to the alignment of the photoelectric sensor. Connect the photoelectric sensor to the operator and observe the yellow LED of the photoelectric sensor.

LED Solid	HPS15 not aligned
LED Flashing	HPS15 not fully
LED OFF	HPS15 Aligned

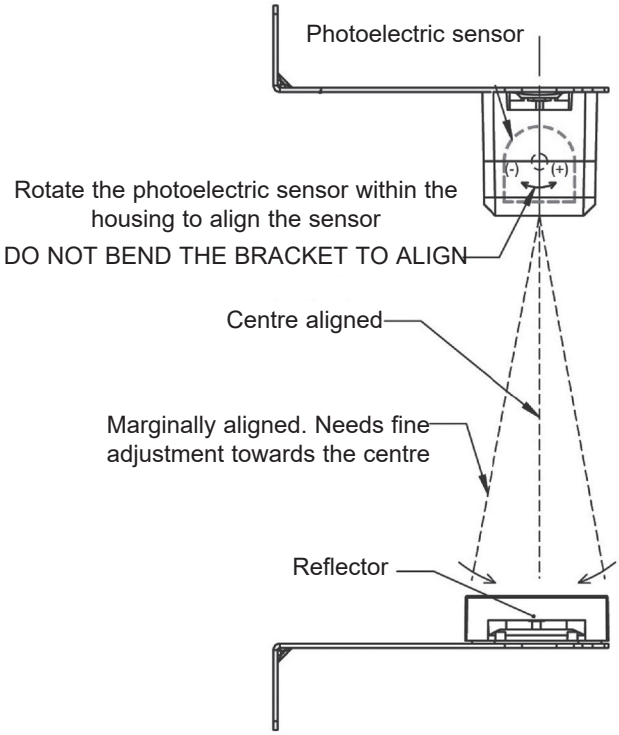


FIG 3

If the HPS15 is not aligned, rotate the sensor clockwise/counter-clockwise as shown in figure 3 until the LED stops flashing and is not illuminated.

If the LED flashes, the HPS15 is aligned but may need fine adjustments to either the sensor of the reflector. (figure 3)

OPERATION

Interruption of a HPS15 will prevent openers from completing either a close or open cycle depending on opener and configuration.

The LED positioned within the HPS15 sensor displays the status of the sensor and also assist with installation. If the HPS15 sensor displays the correct LED indicators during normal operation, but does not stop the door from closing, check if the cable has been connected to the correct input terminals and the configuration.

LED Status	Symptom	Cause	Resolution
OFF	HPS15 Sensor aligned Door operating as expected	Connected correctly and aligned	None. Working correctly
	HPS15 Sensor aligned Door NOT operating as expected	Not connected correctly	Check connection. The HPS15 is polarity sensitive
ON Solid	Connected correctly but misaligned	Connected correctly but misaligned	Align the HPS15 sensor or reflector
	Obstruction detected	Obstruction detected	Check for obstruction
ON FLashing	HPS15 Sensor not fully aligned	Not optimally aligned	Align the HPS15 sensor or reflector

LG-DRIVE / SLIDE600 / SWING A 200 / SWING L 300: CONNECTION

CABLE ENTRY

Run the wire back to the operator CONTROL PANEL.

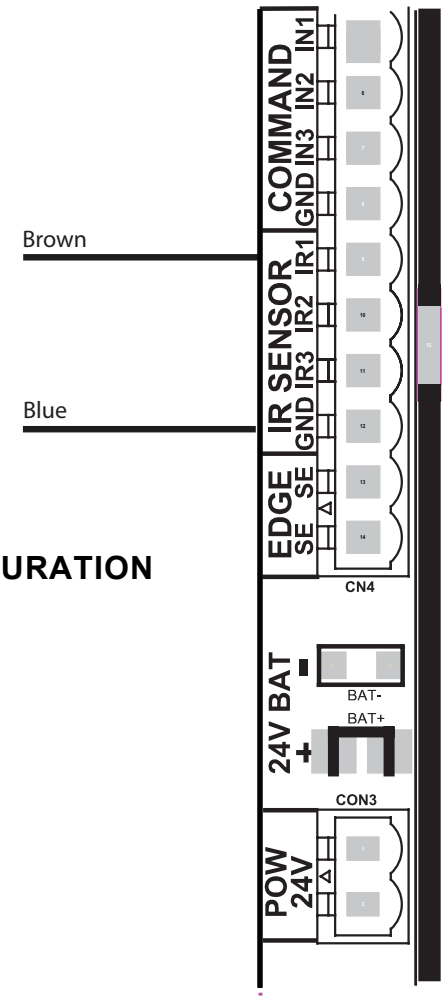
Ensure the cable does not interfere with the gate movement or hardware.

CONNECTION

The HPS15 is supplied prewired to a quick connect plug. Using a small flat blade screwdriver, loosen the screws on the quick connect plug, and remove the cables from the plug.

The plug is not needed.

As this product is polarity sensitive, ensure the Brown wire is terminated into terminal IR1, IR2 or IR3, and the Blue wire is terminated into terminal IR GND.



LG-DRIVE / SLIDE600 / SWING A 200 / SWING L 300: CONFIGURATION

Open, Close, Both Open and Close or Immediate Close

- Press and hold the P button to access the menu.
- Use the + button to scroll to the IR# - Behavior menu.
- Press the P button to enter this menu. Use the + button to scroll through the options.
- Press the P button to activate the preferred option. (CLOSED, OPEN, BOTH OPEN AND CLOSED, CLOSE and IMMEDIATE CLOSE)
- Press and hold the P button to exit the menu.

LG-DRIVE / SLIDE600 / SWING A 200 / SWING L 300: COMMISSIONING

AUTO-COMMISSIONING

Grifco or Merlin monitored Entrapment Protection MUST be installed on IR1 for Timer-To-Close and myQ functionality. Relay type safety beams can be used when connected to IR2 or IR3 AND a Grifco or Merlin monitored Entrapment Protection is installed on IR1.

TO REMOVE AND ERASE MONITORED ENTRAPMENT PROTECTION DEVICES

1. Remove the BBU connector and power down the operator.
2. Power the operator up for three seconds.
3. Remove power for three seconds.
4. Repeat three times, leaving power on the third time.

INSTALLATION

MS65MYQ / MS105MYQ / MS125MYQ / MS135MYQ: CONNECTION

WARNING
Electrical

Only one set of HPS15's can be connected to the MS65MYQ, MS105MYQ, MS125MYQ or MS135MYQ.

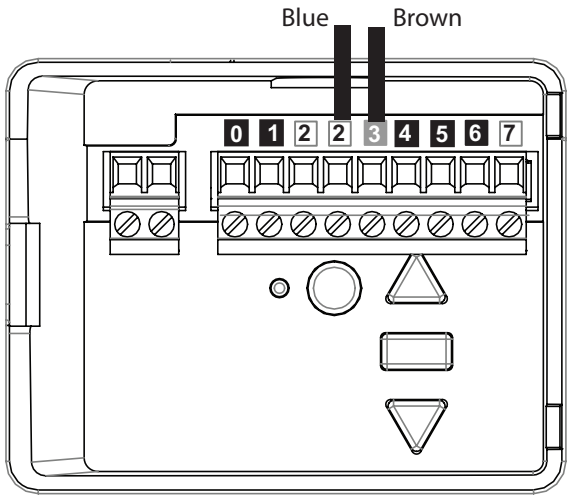
CABLE ENTRY

Run the wire back to the operator CONTROL PANEL. Run the cable up along the door track and across to the rail using appropriate fixings (not supplied). Ensure the cable does not interfere with the door movement or hardware.
Run the cable through the rubber gland located on the top of the operator, above the control panel

CONNECTION

The HPS15 is supplied prewired to a quick connect plug.
Using a small flat blade screwdriver, loosen the screws on the quick connect plug, and remove the cables from the plug.

The plug is not needed.
As this product is polarity sensitive, ensure the Brown wire is terminated into terminal number 3, and the Blue wire is terminated into terminal number 2.



MS65MYQ / MS105MYQ / MS125MYQ / MS135MYQ: CONFIGURATION

Down Direction Only - no configuration

MS65MYQ / MS105MYQ / MS125MYQ / MS135MYQ: COMMISSIONING

Auto-commissioning

TO REMOVE AND ERASE MONITORED ENTRAPMENT PROTECTION DEVICES

1. Remove the BBU connector and power down the operator.
2. Power the operator up for three seconds.
3. Remove power for three seconds.
4. Repeat three times, leaving power on the third time.

MJ3800MYQ: CONNECTION

WARNING
Electrical

Only one set of HPS15's can be connected to the MJ3800MYQ.

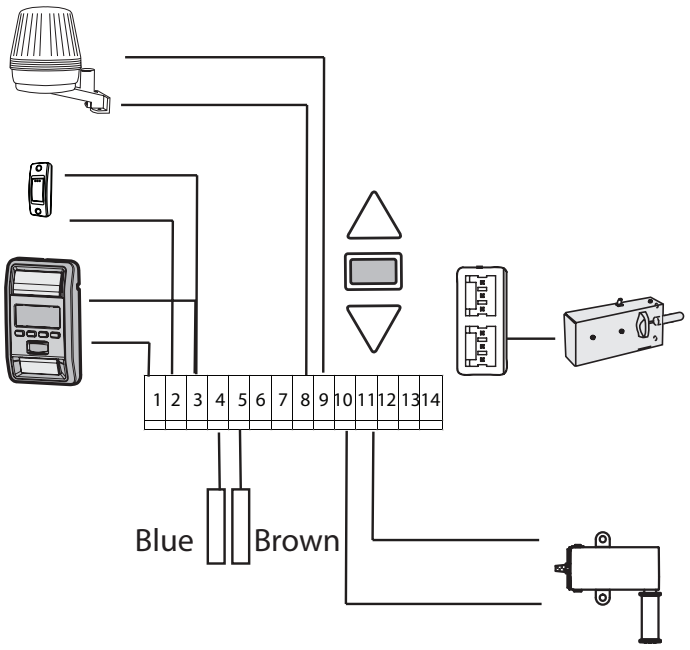
CABLE ENTRY

Run the wire back to the operator CONTROL PANEL. Ensure the cable does not interfere with the door movement or hardware.

CONNECTION

The HPS15 is supplied prewired to a quick connect plug. Using a small flat blade screwdriver, loosen the screws on the quick connect plug, and remove the cables from the plug.

The plug is not needed.
As this product is polarity sensitive, ensure the Brown wire is terminated into terminal number 5, and the Blue wire is terminated into terminal number 4.



MJ3800MYQ: CONFIGURATION

Down Direction Only - no configuration

MJ3800MYQ: COMMISSIONING

Auto-commissioning

TO REMOVE AND ERASE MONITORED ENTRAPMENT PROTECTION DEVICES

1. Remove the BBU connector and power down the operator.
2. Power the operator up for three seconds.
3. Remove power for three seconds.
4. Repeat three times, leaving power on the third time.

MR655MYQ / MR855MYQ: CONNECTION

WARNING
Electrical

Only one set of HPS15's can be connected to the MR655MYQ or MR855MYQ.

CABLE ENTRY

Remove the rear cover from the lower rear housing, to expose the "External Accessory Terminal Block".
Remove one of the break off tabs on the rear cover, depending on which side the cable entry is. Cable tie the cable in place

CONNECTION

The HPS15 is supplied prewired to a quick connect plug.
Using a small flat blade screwdriver, loosen the screws on the quick connect plug, and remove the cables from the plug.

The plug is not needed.

MR655MYQ

As this product is polarity sensitive, ensure the Brown wire is terminated into the Grey terminal, and the Blue wire is terminated into the white terminal.

MR855MYQ

As this product is polarity sensitive, ensure the Brown wire is terminated into terminal number 4, and the Blue wire is terminated into terminal number 3.

MR655MYQ / MR855MYQ: CONFIGURATION

Down Direction Only - no configuration

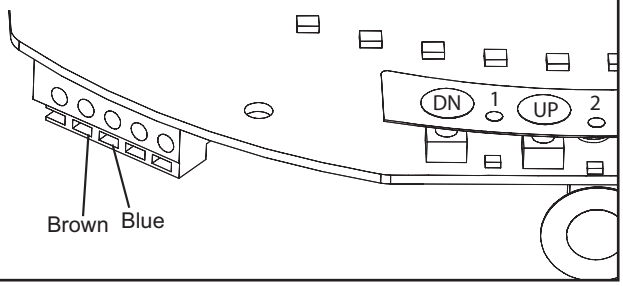
MR655MYQ / MR855MYQ: COMMISSIONING

Auto-commissioning

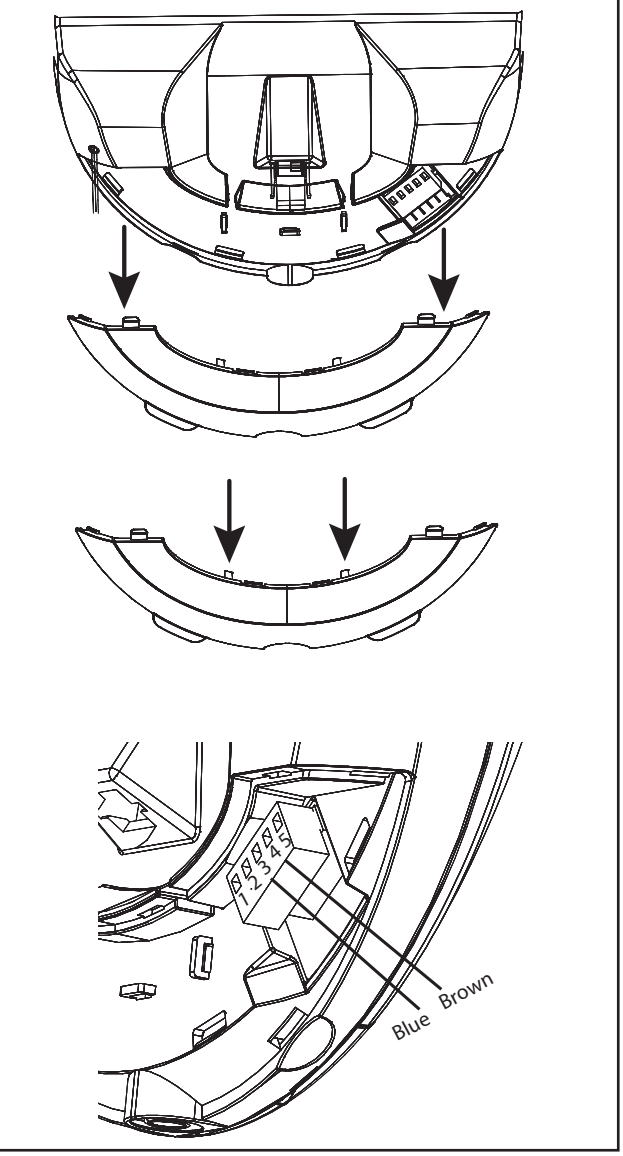
TO REMOVE AND ERASE MONITORED ENTRAPMENT PROTECTION DEVICES

1. Remove the BBU connector and power down the operator.
2. Power the operator up for three seconds.
3. Remove power for three seconds.
4. Repeat three times, leaving power in the third time.

MR655MYQ



MR855MYQ



INSTALLATION

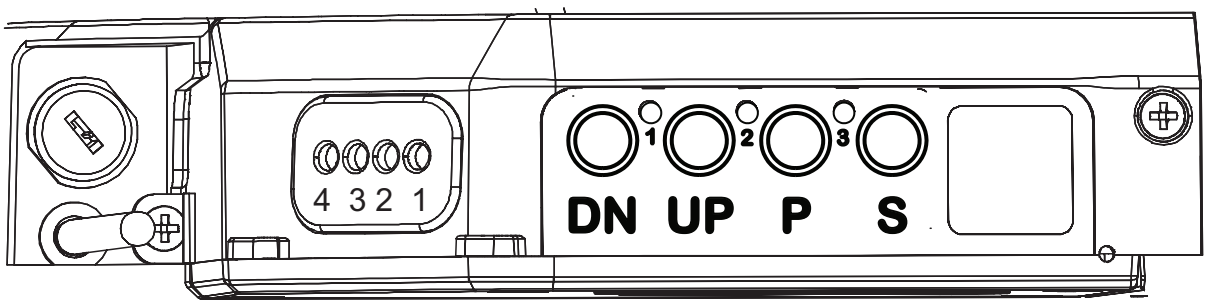
MR555MYQ: CONNECTION

WARNING
Electrical

Only one set of HPS15's can be connected to the MR555MYQ.

CABLE ENTRY

Remove the rubber cable gland and make two small holes at position 2 and 3. Pass the Blue cable through hole 2 and the Brown cable through hole 3.

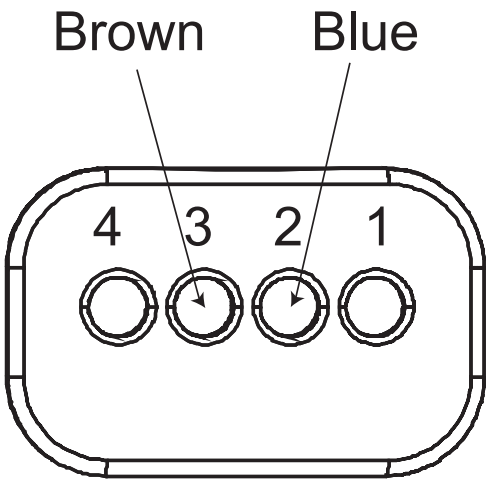


CONNECTION

The HPS15 is supplied prewired to a quick connect plug.
Using a small flat blade screwdriver, loosen the screws on the quick connect plug, and remove the cables from the plug.

The plug is not needed.

Use a small screwdriver or pen to hold down the spring terminals, insert the Brown wire into the grey terminal, then terminate the Blue wire into the white terminal.



MR555MYQ: CONFIGURATION

Down Direction Only - no configuration

MR555MYQ: COMMISSIONING

Auto-commissioning

TO REMOVE AND ERASE MONITORED ENTRAPMENT PROTECTION DEVICES

1. Remove the BBU connector and power down the operator.
2. Power the operator up for three seconds.
3. Remove power for three seconds.
4. Repeat three times, leaving power on the third time.

INSTALLATION

LR-DRIVE: CONNECTION

WARNING
Electrical

Only one set of HPS15's can be connected to the LR-Drive.

CABLE ENTRY

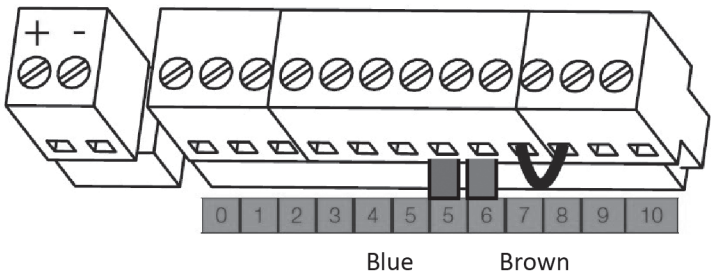
Run the HPS15 cable via 20mm conduit into the 20mm conduit entry located on the lower edge on the right hand side.
The cable will be internally routed to the terminal block.

CONNECTION

The HPS15 is supplied prewired to a quick connect plug.
Using a small flat blade screwdriver, loosen the screws on the quick connect plug, and remove the cables from the plug.

The plug is not needed.
As this product is polarity sensitive, ensure the Brown wire is terminated into terminal number 6, and the Blue wire is terminated into terminal number 5.





LR-DRIVE: CONFIGURATION

Down Direction Only - no configuration

LR-DRIVE: COMMISSIONING

Auto-commissioning

TO REMOVE AND ERASE MONITORED ENTRAPMENT PROTECTION DEVICES

1. Remove the BBU connector and power down the operator.
2. Power the operator up for three seconds.
3. Remove power for three seconds.
4. Repeat three times, leaving power on the third time.

INSTALLATION

E-DRIVE: CONNECTION

WARNING

Be sure power to the operator is disconnected. Do not run control wiring in the same conduit with AC power.

DO NOT CONNECT THE HPS15 to VDC OUT.

The HPS15 must be connected to the IR1 or IR2 terminals only of the operator. Connection to a voltage output or incorrect polarity will damage the unit and void warranty.

Only compatible with: E-Drive+2.0 / E-Drive+2.0 GLM / E-DriveMYQ / E-DriveMYQ GLM

The wire cable is intended to aid in the installation to either a junction box on the wall, or can be routed through the C10A mounted next to the door allowing the wires to run in the same conduit as the control cable.

The photoelectric sensor is also capable of receiving a 1/2” thread conduit adapter.

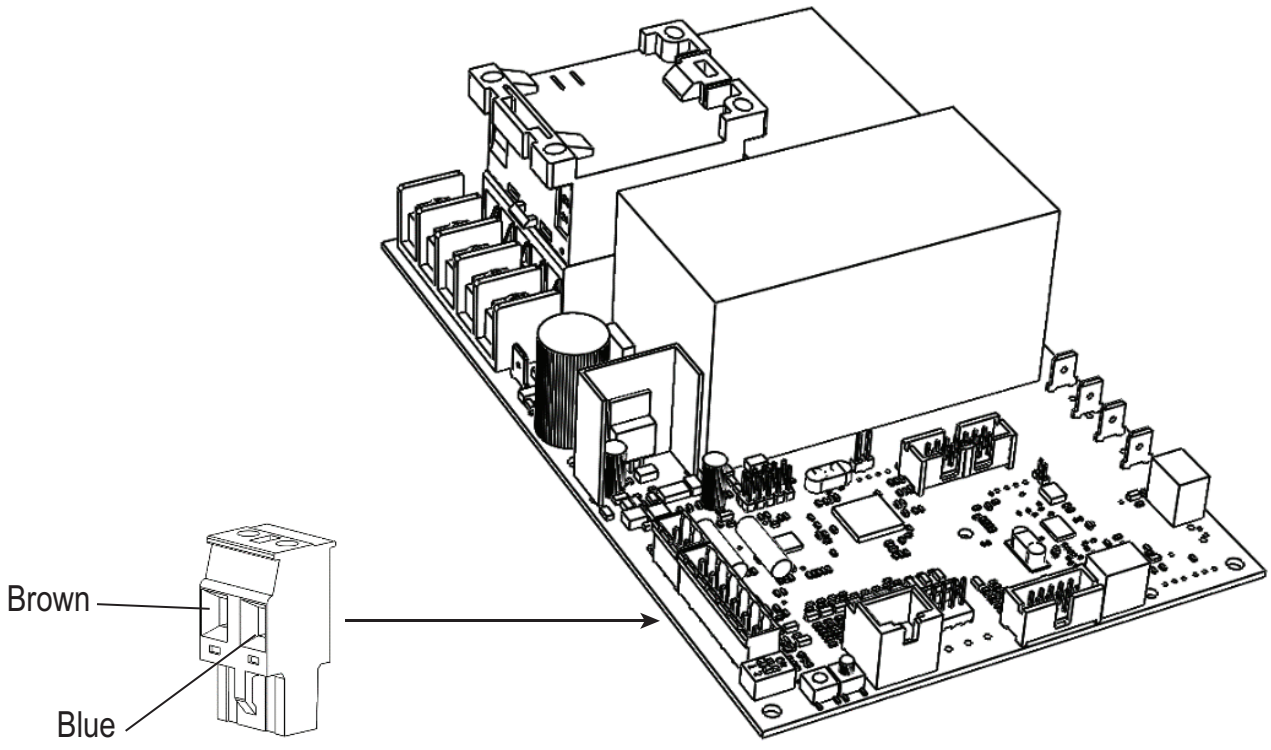
The photoelectric sensor is supplied prewired to a quick connect socket which plugs directly into the IR1 position on the Grifco E-Drive MCB.

As this product is polarity sensitive, ensure:

- Brown wire is terminated on the Positive (+ve) terminal
- Blue wire to the Negative (-ve) terminal

If connecting a second photoelectric sensor, the quick connect socket plugs into IR2.
Multiple PE beam sets can be installed at several heights for special applications.

e.g. Fire Station, Ambulance Station etc.
A maximum of two sets of HPS photo beams can be installed using the onboard power supply.



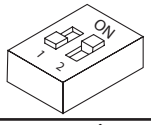
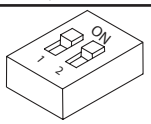
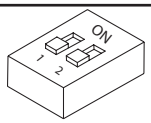
E-DRIVE: CONFIGURATION

SETTING DOOR BEHAVIOUR

To set the door behaviour modes, adjust the DIP switches in the corner of the MCB shown below. The different combinations suit different behaviours and obstruction detection devices installed.
By default, the MCB is set to latch UP and inch DOWN.
The door will open with a single press but only travel downwards while the down button is being held.
The door must only be set to latch DOWN if there is suitable Entrapment Protection device installed.

Failure to do so can lead to serious injury, death or damage to property.

Setting Up Entrapment Protection for When Door is Closing:

Configuration	Entrapment Protection Device installed	Dip Switch 1	Dip Switch 2	
Inch Down / Latch Up (default)	NO	OFF	ON	
Latch Down / Latch Up	YES	ON	ON	
Inch Down / Inch up **	NO	OFF	OFF	

Setting Up Entrapment Protection for When Door is Opening - NOTE: Only EDriveMYQ Revision G firmware.

IR2 can be set so that while the door is opening, and a connected IR beam is obstructed, the door will stop moving.

1. Position the door to the closed limit position.
2. While holding the SET button, press and hold the UP button for approximately 4 seconds.
   The STATUS indicator will quickly flash then go out.
3. Connect a monitored Entrapment Protection Device into IR2. A N/C relay type IR switching device is not compatible.
4. Simulate an obstruction to learn the IR device.
5. Press the OPEN button, and while the door is moving, obstruct the IR device and check the door stops, reverses for 1 second, and stops.

To change IR2 to the factory default setting of sensing an obstruction while closing:

1. Position the door to the closed limit position.
2. While holding the SET button, press and hold the DOWN button for approximately 4 seconds.

The STATUS indicator will quickly flash then go out.

E-DRIVE: COMMISSIONING

- Isolate power to the opener.
- Ensure Dip Switch 1 is off.
- Install the HPS15 as per “Connection”.
- Energise the opener.
- Ensure the HPS15’s are aligned.
  - Yellow LED ON - misaligned
  - Yellow LED OFF - aligned
- Set the Dip Switch configuration.

**Both dip switches must be OFF (inch up / inch down) for Coles & BI-LO electrically operated roller door installations or when operator height is less than 2.5m from the ground without sufficient guarding of moving parts.

TO REMOVE AND ERASE MONITORED ENTRAPMENT PROTECTION DEVICES

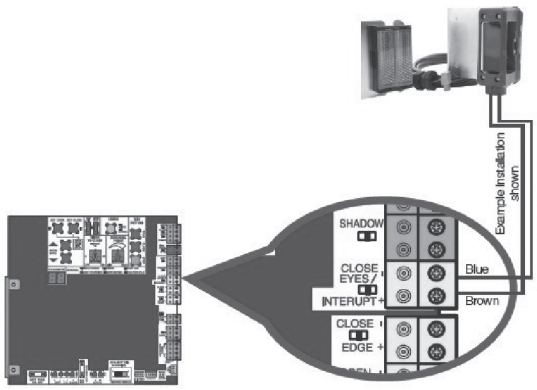
To erase the learnt entrapment devices from the MCB press and hold the RST button for 10 seconds or until the green LED on the MCB blinks rapidly

S-DRIVE: MAIN CONTROL BOARD CONNECTION

The PRIMARY Entrapment Protection Device MUST be installed on the main control board

CLOSE EYES (Infrared Safety Beams)

The CLOSE EYES/INTERRUPT input is for Photoelectric sensor entrapment protection in the CLOSING direction. When an obstruction is detected during closing, the door will stop and open to the fully open position. Timer to close will be reset. This input will be disregarded during opening



OPEN EYES/EDGE

The OPEN EYES/EDGE input is for photoelectric or contact edge sensor entrapment protection for the open direction. When an obstruction is detected during opening, the door will stop and travel down for 2 seconds. This input will be disregarded during closing.

Open Eyes / Edges can be used on doors that may present an entrapment danger in the opening direction.

S-Drive: Main Control Board Configuration

Configuration dependent on input used

S-Drive: Main Control Board Commissioning

Auto-commissioning

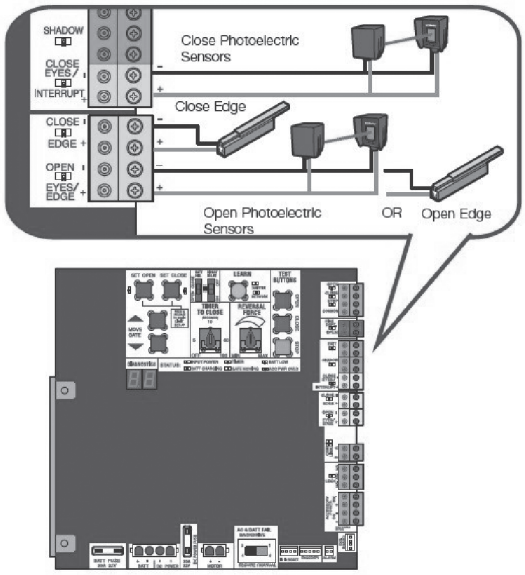
S-Drive: Expansion Board Connection

EYE ONLY

The EYE ONLY and COM Open or Close direction photo electric sensors with selectable functionality.

EYE/EDGE

EYE/EDGE and COM (x2)
Photo eyes or contact edge in the Open or Close with selectable functionality.

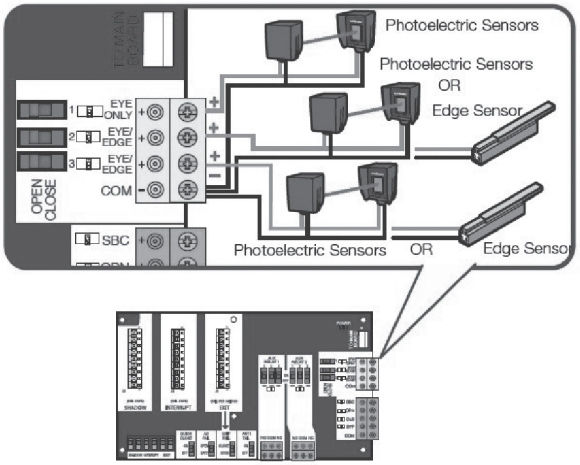


S-DRIVE: EXPANSION BOARD CONFIGURATION

The DIP Switches located next to the terminals have the following functions. Set to Close:
The door will stop and reverse to open when an obstruction is detected. Set to Open:
The door will stop and retract when an obstruction is detected.

TO REMOVE AND ERASE MONITORED ENTRAPMENT PROTECTION DEVICES

1. Remove the entrapment protection device wires from the terminal block.
2. Press and release the SET OPEN and SET CLOSE buttons simultaneously. The SET OPEN and SET CLOSE LEDs will turn on (entering learn limit mode).
3. Press and release both SET OPEN and SET CLOSE buttons again to turn off the SET OPEN and SET CLOSE LEDs (exiting learn limit mode).



LS-DRIVE: CONNECTION

WARNING

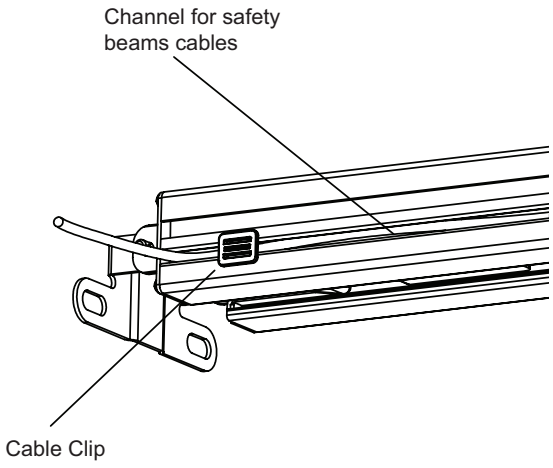
Only one Set of HPS15's can be connected to the LS-Drive.
Only LS-Drives manufactured after 1-1-2019 are compatible.

NOTE: LS-Drive is supplied with a pair of 774ANZ monitored entrapment protection safety beams. A Grifco Entrapment Protection device is required to be installed for the operator to function.

CABLE ENTRY

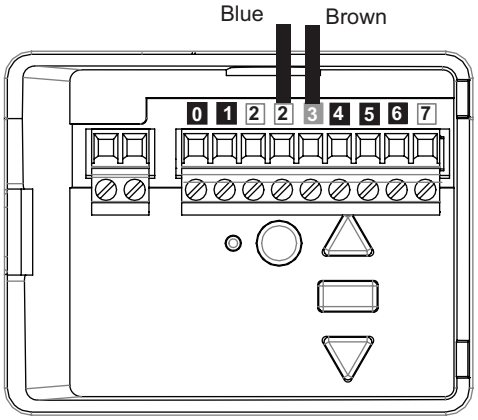
Run the HPS15 cable back to the operator CONTROL PANEL.

Use the channels provided on either side of the rail extrusion and secure with the 4 supplied cable clips to ensure cable does not come loose.
Mount a cable clip at either end of the rail. Run the cable through the rubber gland located on the top of the operator, above the control panel.



CONNECTION

The HPS15 is supplied prewired to a quick connect plug.
Using a small flat blade screwdriver, loosen the screws on the quick connect plug, and remove the cables from the plug.
The plug is not needed.
As this product is polarity sensitive, ensure the Brown wire is terminated into terminal number 3, and the Blue wire is terminated into either of the terminals labelled number 2.



LS-DRIVE: CONFIGURATION

Down Direction Only - no configuration

LS-DRIVE: COMMISSIONING

Auto-commissioning

TO REMOVE AND ERASE MONITORED ENTRAPMENT PROTECTION DEVICES

1. Remove the BBU connector and power down the operator.
2. Power the operator up for three seconds.
3. Remove power for three seconds.
4. Repeat three times, leaving power on the third time.

CHAMBERLAIN LIMITED WARRANTY - HPS15

ONE YEAR WARRANTY

Chamberlain Australia Pty Limited / Chamberlain New Zealand (Chamberlain), the manufacturer of Merlin® garage door openers, warrants to the original consumer purchaser of this product that it is free from defect in materials and/or workmanship for a period of one year from the date of purchase.

Chamberlain is committed to manufacturing and supplying high quality goods. As part of this commitment, we seek to provide reliable service and support for our goods and are pleased to provide you, the original purchaser, with this Chamberlain Limited Warranty. The benefits given to you under this Chamberlain Limited Warranty are in addition to any rights and remedies that you may have under Australian or New Zealand consumer protection laws. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law, or New Zealand Consumer Guarantees Act 1993. You are entitled to a replacement or re-fund for a major failure and for compensation for any other foreseeable loss or damage. You are also entitled to compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

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