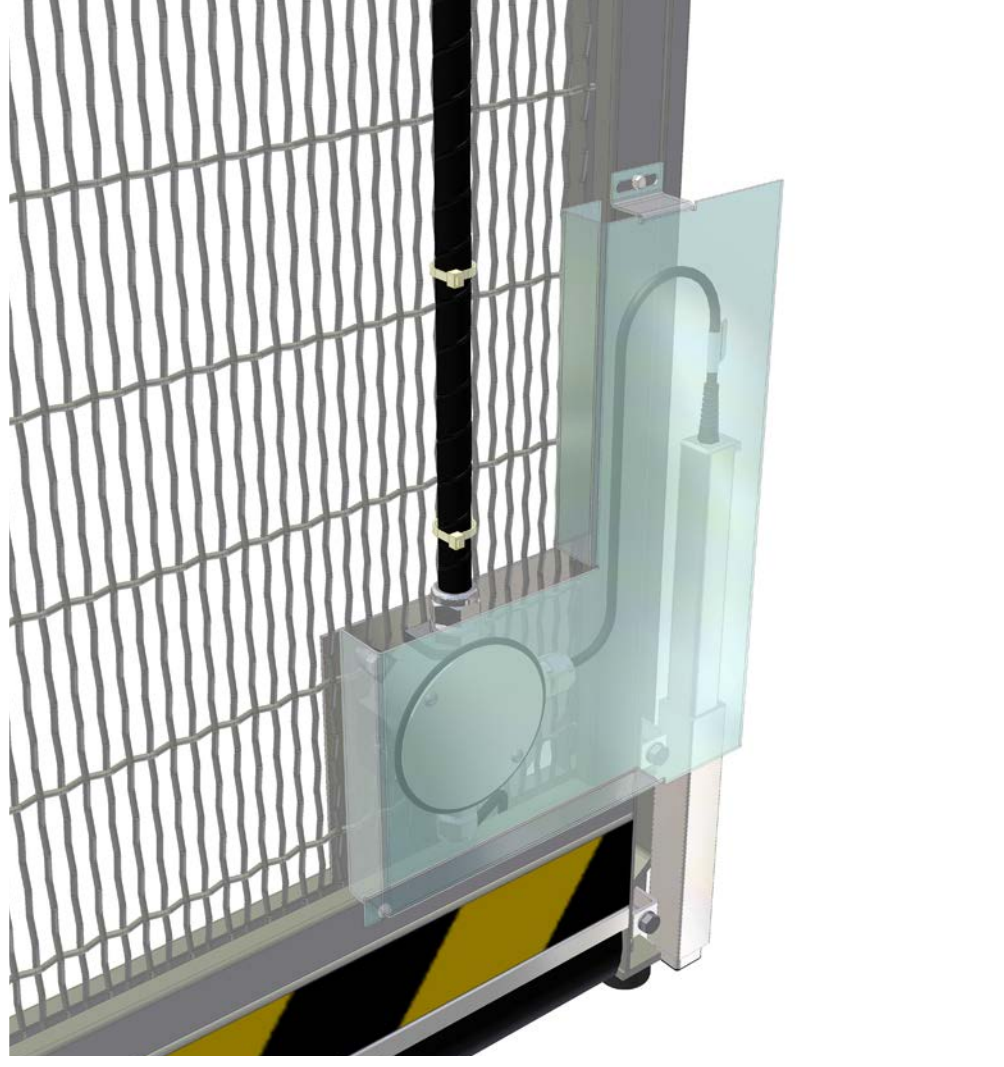




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GUIDE 217.V3



SENSOR BEAM RETROFIT KIT 46899

INSTALLATION GUIDE

Freight Elevator Doors / Goods Lift Doors



460009LSS
Cover
Quantity: 1



460009RSS
Cover
Quantity: 1



068440
4 Conductor Cable
Quantity: 1
Length: 40 FT



056901
Flex Conduit
Fitting
Quantity: 2



468520U
KO Box / Gasket
Quantity: 2



468770
Cable Strain Relief
Connectors
Quantity: 5



800019
Self Tapping Screw
#8-32 x 5/8"
Quantity: 6



468521
Mounting Plate
Quantity: 2



800027
Hex Head Bolt
5/16"-18 x 1 1/2"
Quantity: 4



277608
Fuse (2 Amp)
Quantity: 1



4689L Source
Quantity: 1
4689R Detector
Quantity: 1



0239
Guide Shoe (Gate)
Quantity: 2



275510 Relay
Quantity: 1
07644 Socket
Quantity: 1



800026
Lock Washer
5/16"
Quantity: 4



068462
1/2" Coupling
Quantity: 1



97203
Flex Conduit
Quantity: 1
Length: 6 Ft



065812SS
Shoe Grommet Nut
Quantity: 4



277502
Transformer
Quantity: 1



Tie Wraps,
6" LG, White
Quantity:
1 PACK OF 100



800028
Hex Head Bolt
1/4"-20 x 1"
Quantity: 4



800016
Lock Washer
1/4"
Quantity: 4



800014
Hex Nut, 1/4"-20
Quantity 4

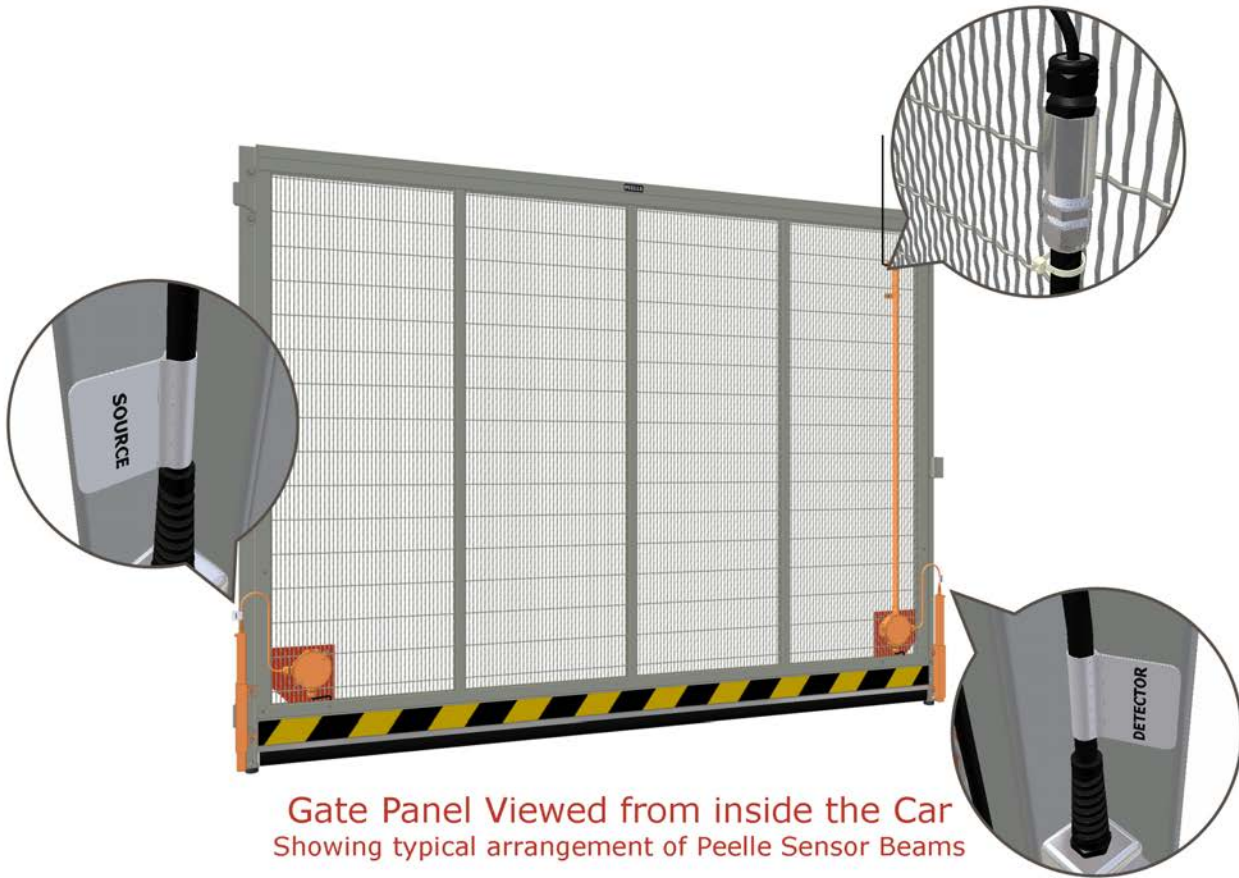


217
Installation Guide
Quantity: 1



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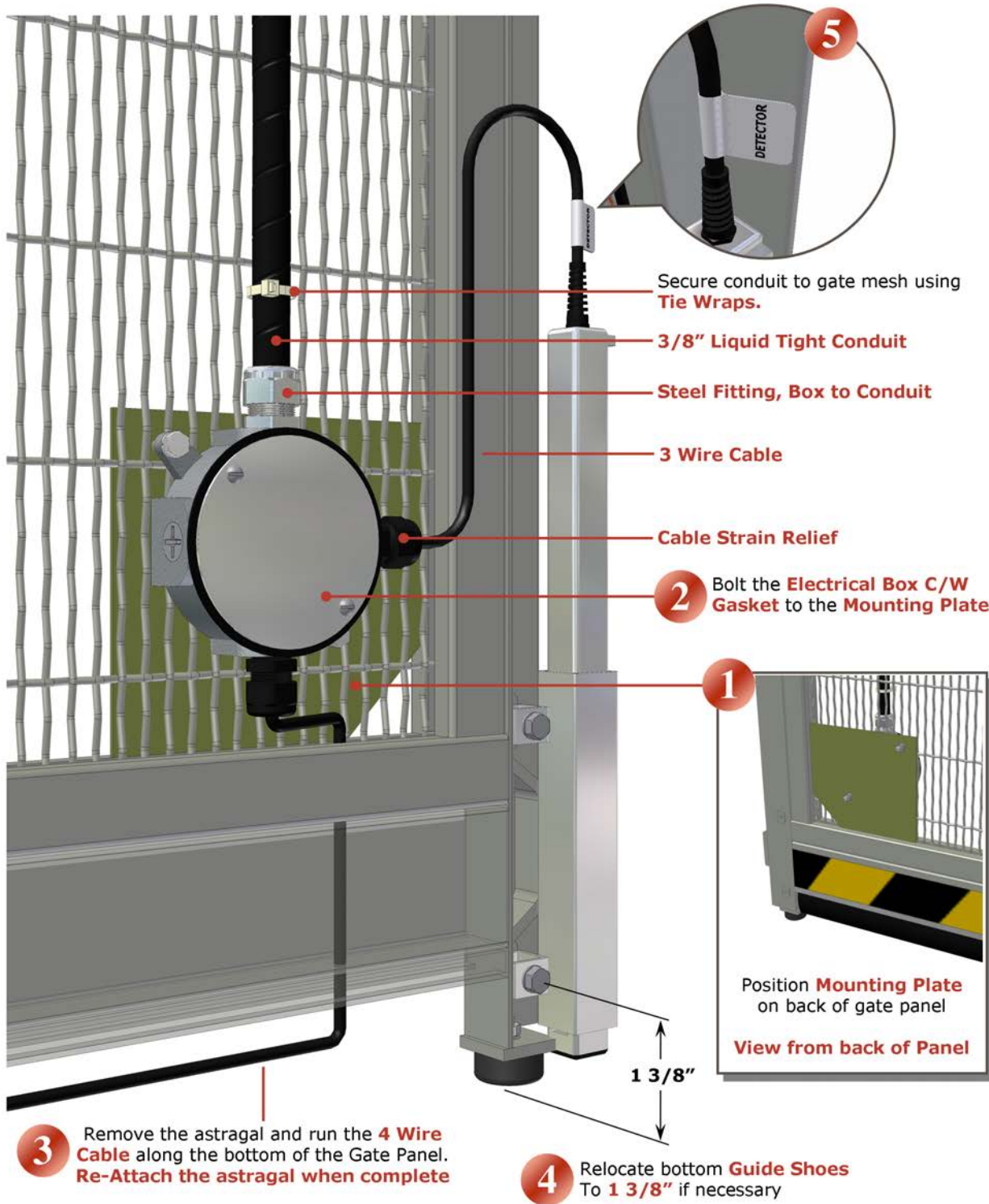
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Gate Panel Viewed from inside the Car
Showing typical arrangement of Peelle Sensor Beams



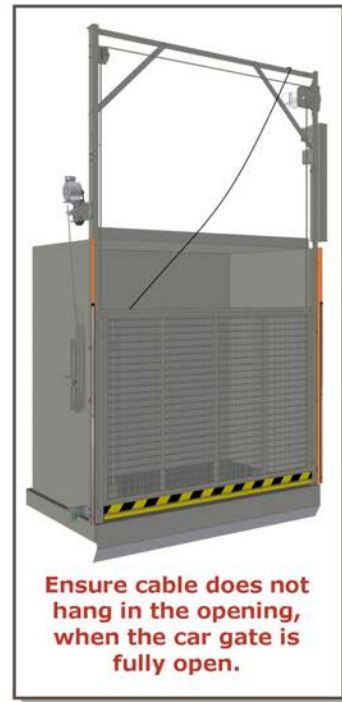
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4 Wire Cable,
Run cable back to Gate Limit box located at top of gate.



Ensure cable does not hang in the opening, when the car gate is fully open.

Cable Strain Relief

1/2" Coupling

Steel Fitting

Secure conduit to gate mesh with Tie Wraps.

Cut Conduit to suit.

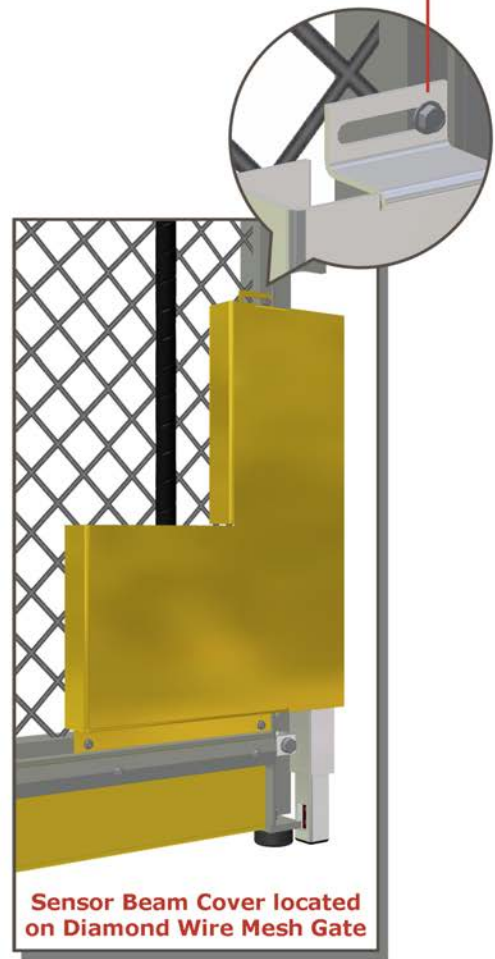


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Use **Self Tapping Screws** to attach cover.



Sensor Beam Cover located on Diamond Wire Mesh Gate



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SENSOR BEAM
INSTALLATION GUIDE



**Diamond Wire Mesh Car Gate
Single Section / Double Section
Viewed from inside the Car**



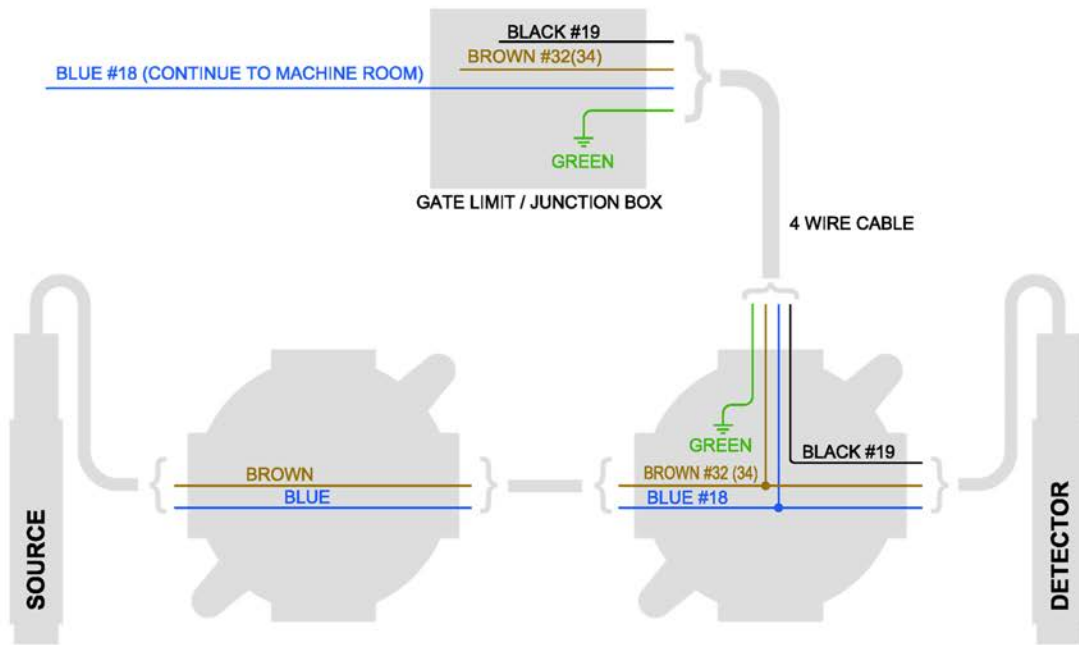
**Solid Panel Car Gate
Single Section / Double Section
Viewed from the Hall**



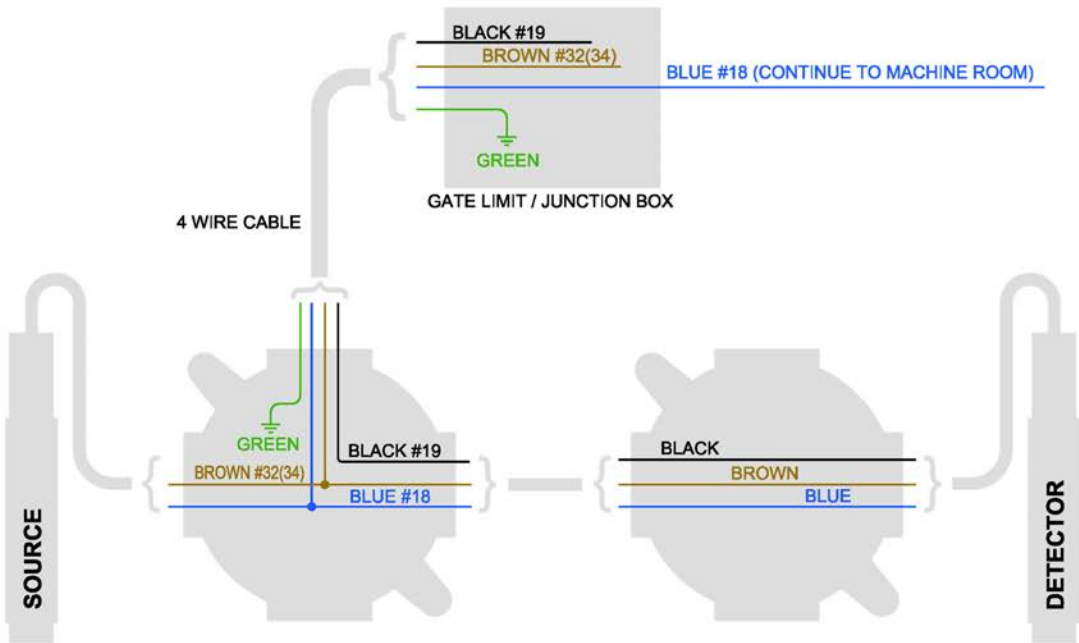
**Reverse Panel Gate
Viewed from the Hall**

Sensor Beam mounting
arrangements for various
styles of Car Gates.





Wiring for Sensor Beams with Detector on the same side as the Vertical Conduit



Wiring for Sensor Beams with Source on the same side as the Vertical Conduit



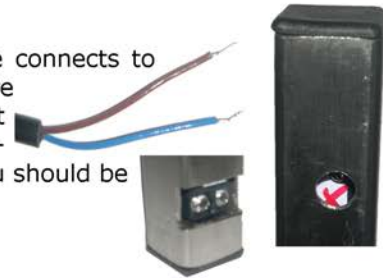
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**Please refer to the Peelle Hoistway Wiring (HW) and the Peelle Schematic Diagram (SD)
Note: all handing is from inside the car looking out!**

The Sensor Beam Source

Left Hand side has two active wires of three. The BROWN wire connects to #32 (#34 of line C) and the BLUE wire to #18-S1. The BLACK wire is not connected. The source has two clear lenses that transmit infrared light to the Detector and remain illuminated red when under power. Also look in the 2 holes on the back of the Source, you should be able to make out a RED X inside.



The Sensor Beam Detector

Right hand side has three active wires. The BROWN wire connects to #32 (#34 line C) the BLUE to #18-S1 and the BLACK to #19. The detector has two clear lenses that detect infrared light; neither one illuminates when under power.



Note: If the BLUE and BROWN wires are reversed the sensor will appear to be working but, will send an improper signal to the controller.

All sensors are factory installed and tested on the car gate. If the car gate is not reversing proceed as follows.

The sensor are powered by 24V AC thru wires #32 (#34 if line C) and #18-S1. Check to make sure there is power whenever the car gate is open more than 2in (50mm). The power should go off in the closed position, if it does not adjust the GCFL limit in the car door limit box

While the car door is closing jump out wire #32 to #19 on the controller, this should engage the reversing circuit (energize relay GRA) and cause the car door to reverse to the full open position. If not, ensure that wire #19 is complete from the car to the controller. If the jumper is left in place for more than 30 seconds, relay TO will override the reversing circuit in which case you will need to remove the jumper and put it back on, if you still require it.

When the beam is broken by an obstruction the detector energizes the GRA relay through wire #19. If the beam is broken for more than 30 seconds, relay TO will time out and override the reversing circuit allowing the car door to close in slow speed.

If you have removed the sensor beam assembly from the car gate, or are installing a sensor beam kit to a car gate, please ensure that the cables are looped so that they are not pinched or rubbing. The sensors are very tolerant to misalignment up to 15 degrees; however if the car gate panel is severely damaged the misalignment allowance of the sensors may be exceeded. To remove a transmitter or receiver, remove the cable from the junction box on the car gate, and remove the sensor beam assembly and pull through. Replace the device and reassemble opposite to disassembly.

Check the sensors for damage and clean them as part of a normal maintenance routine. Contaminant buildup on the sensor lenses will deteriorate their performance: dust, dirt, paint, overspray, grease, oil etc.

Contact Peelle if you require further assistance.



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