SENSOR BEAM RETROFIT KIT
46899
INSTALLATION GUIDE
Freight Elevator Doors / Goods Lift Doors
Gate Panel Viewed from inside the Car
Showing typical arrangement of Peelle Sensor Beams
1. Bolt the Electrical Box C/W Gasket to the Mounting Plate
2. Position Mounting Plate on back of gate panel
3. Remove the astragal and run the 4 Wire Cable along the bottom of the Gate Panel. Re-Attach the astragal when complete
4. Relocate bottom Guide Shoes To 1 3/8" if necessary
5. Secure conduit to gate mesh using Tie Wraps.

3/8” Liquid Tight Conduit
Steel Fitting, Box to Conduit
3 Wire Cable
Cable Strain Relief
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.
Use Self Tapping Screws to attach cover.

Sensor Beam Cover located on Diamond Wire Mesh Gate
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
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 un-
der 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 pro-
ceed 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 sill 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 re-
versing 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 disas-
sembly.

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

Contact Peelle if you require further assistance.