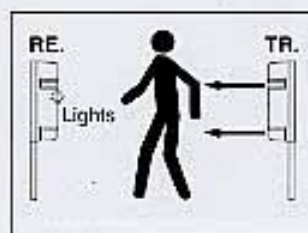


7 OPERATION CHECK

After installation and alignment test operation by walk testing the beam.

- When beams are cut, alarm LED lights on.
- Check system operation with control panel.



8 TROUBLESHOOTING

Symptom	Possible cause	Remedy
Operation LED does not light	<ol style="list-style-type: none"> 1. Disruption of power or inadequate power 2. Bad wiring connection or broken wire, short 	<ol style="list-style-type: none"> 1. Correct power source 2. Check and correct wiring
Receiver Alarm LED does not light when the beam is broken	<ol style="list-style-type: none"> 1. Disruption of power or inadequate power 2. Bad wiring connection or broken wire, short 3. Reflection of beam is flooding receiver and sent into the receiver 4. 4 Beams are not broken simultaneously 5. Beam interruption time is shorter than response time 	<ol style="list-style-type: none"> 1. Correct power source 2. Check and correct wiring 3. Remove reflecting object. Contact Pulnix for further remedies 4. Ensure all beams are broken at same time 5. Adjust response time
Receiver Alarm LED stays lit	<ol style="list-style-type: none"> 1. Alignment is off 2. Shading object between transmitter and receiver 3. Optics of units are soiled 4. Frequency channel setting on transmitter does not match with that on receiver 	<ol style="list-style-type: none"> 1. Check and adjust 2. Check site / remove any possible obstacles 3. Clean the optics with a soft cloth 4. Readjust to be the same channel
Intermittent alarm	<ol style="list-style-type: none"> 1. Bad wiring connection 2. Change of supply voltage 3. Shading object between transmitter and receiver 4. The wiring of power machine is located nearby transmitter and receiver 5. Unstable installation of transmitter and receiver 6. Optics of units are soiled 7. Improper alignment 8. Small animals may pass through the 4 beams 	<ol style="list-style-type: none"> 1. Check again 2. Stabilize supply voltage 3. Remove the shading object 4. Change the place for installation 5. Stabilize 6. Clean the optics with soft cloth 7. Check and re-adjust 8. Change environments or the place for installation

(Units should be tested on a regular weekly basis)

9 SPECIFICATIONS

Name	Low current photo electric beam sensor
Model No.	PB-IN-75SW
Protection distance	Outdoor 248' (75m) or less
Max. arrival distance	Tenfold 2480' (750m)
Infrared beam type	Double modulation pulsed beam by LED
Detection system	Near infrared beam interruption system (TR.-RE. beams simultaneous interruption)
Response time	50msec. to 700msec. variable (Standard : 50msec.)
Power supply	DC5V to 8V or DC10V to 30V, with polarity
Power consumption	DC5V to 8V : 6mA (TR. side 3.7mA) or less when armed DC10V to 30V : 25mA (TR. side 15mA) or less when armed
Alarm output	Dry contact relay Form C Action : Interruption time + off-delay 2 secs. Contact capacity : 30V (AC/DC) 1A
Environmental output	Dry contact relay Form C Action : trigger an output when environment becomes bad Contact capacity : 30V (AC/DC) 0.5A
Tamper output	Dry contact relay Form B Action : trigger an output when cover is opened Contact capacity : 30V (DC) 0.1A
Alarm LED	Red LED (receiver side) lights on when an alarm is initiated
Sensitivity attenuation LED	Red LED (receiver side) lights on when beam reception is attenuated
Operation LED	Green LED (transmitter) light on when cover is opened with power on
Ambient tem. range	-25°C to +60°C
Beam alignment adjustment	Horizontal : ±90°, Vertical : ±10°
Installation	Outdoor
Wiring	M3 self-up terminals
Weight	Transmitter : 42oz (1200g) Receiver : 45.5oz (1300g)
Appearance	PC resin (wine rod)