



Parking Alert Signs

Engineered safety systems for you parking facilities

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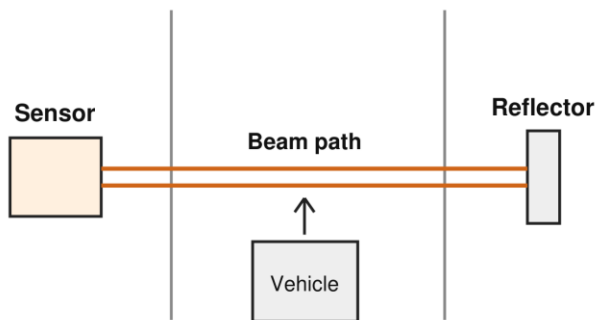
Typical applications

- Vehicle and pedestrian warning signs
- Gate and barrier controller inputs
- Door and passage beam detection
- Parking garages and warehouse crossings

A single powered sensor sends and receives the beam. The passive reflector returns it; interruption changes the relay output. The reflector needs no wiring.

Beam path and positioning

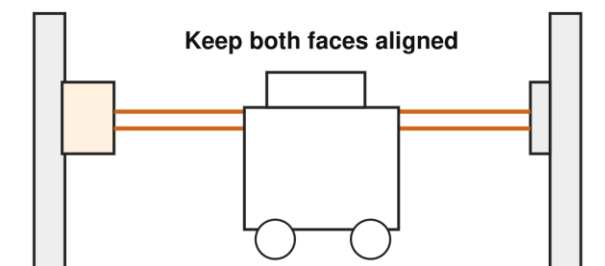
TOP VIEW — ACROSS THE PATH



Up to 30 ft between sensor and reflector

Illustrative views; not to scale. Outgoing and return rays are drawn apart for clarity.

SIDE VIEW — MATCH THE HEIGHT



Select height to intersect intended targets
A single beam does not cover the whole lane

Align and verify

Aim the swivel at the reflector and use the height adjustment screw to obtain a stable returned signal. Tighten the mounts, fit the cover, then block and clear the beam. Test the actual targets at the selected height.

The swivel adjusts up to 90° left or right; this does not create a wide sensing field. One beam does not detect everything above, below, or beside it.

BeamGuard30 QuickSheet

Reflector Beam Detector

PS-BD30R | Installation and alignment

Basic information

Item	BeamGuard30
Supply	12–24 VDC or 9–24 VAC (45–60 Hz)
Current at 12 VDC	<38 mA relay on; <20 mA relay off
Detection span	Up to 30 ft (about 9.1 m)
Sensitivity / response	Fixed / approximately 30 ms
Output	Isolated relay: COM, NO, NC
Contact rating	3 A at 30 VDC or 125 VAC

Mounting

Use stable opposing surfaces. Align the sensor with the supplied reflector at matching heights. Fit the protective cover and protect cable entries from water.



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BeamGuard30 QuickSheet

Reflector Beam Detector

PS-BD30R | Wiring and troubleshooting

Terminal functions

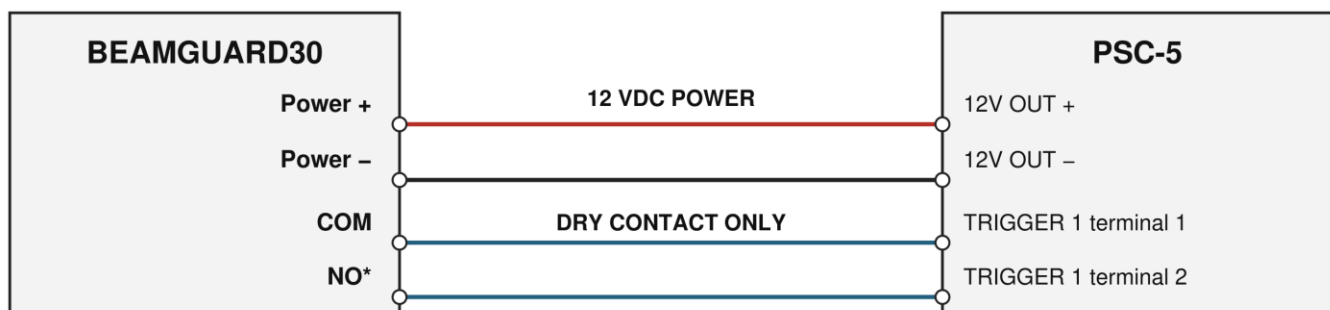
Terminal	Connection
+ / - or ~ / ~	Power input; observe DC polarity
COM + NO or NC	Dry contact to controller input
TEST + TEST	Leave open in normal service

Use terminal markings, not assumed wire colors. Keep power, relay, and test connections separate.

Status lights

Indicator	Meaning
Green on	Power present
Green flashing	Weak returned signal; clean and realign
Red on	Valid returned signal / beam clear
Red off	No valid return; beam blocked or alignment lost

PSC-5 connection example



*NO shown as in the PASS sheet. Confirm opening or closing on beam interruption before setting the input.

With relay wires disconnected from the controller, check COM and the chosen contact using a continuity meter with the sensor powered. If it closes when the beam is blocked, select CLOS; if it opens, select OPEN. Use P009 for Trigger 1 or P010 for Trigger 2.

Start with P005 = 1; P006 = 10 seconds; P007 = 0; P008 = OFF. Press ENTER to save, then RESET to exit. Keep total PSC-5 12V OUT loads within 1 A. Verify both beam-clear and beam-blocked operation.

Troubleshooting

Symptom	What to check
No power indication	Check supply at the sensor, DC polarity, and connections.
Flashing green / weak signal	Clean both faces, remove obstructions, and realign. Check spacing and loose mounts.
Red stays off with path clear	Verify the reflector faces the sensor. Check aim, dirt, cover seating, and anything blocking the return.
Unwanted activations	Check moving objects, vibration, direct sunlight, moisture, and weak alignment. Test under actual site conditions.
LED changes; controller does not	Check COM and the selected relay terminal. Verify the controller setting against the measured clear/blocked contact states.
Controller active while beam clear	Check for reversed input logic. Select CLOS for a contact that closes on interruption, OPEN for one that opens.

For door and gate use, verify the operator's safety interface requirements and retain required safety devices. Complete a physical beam-block test before use.

Need help

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