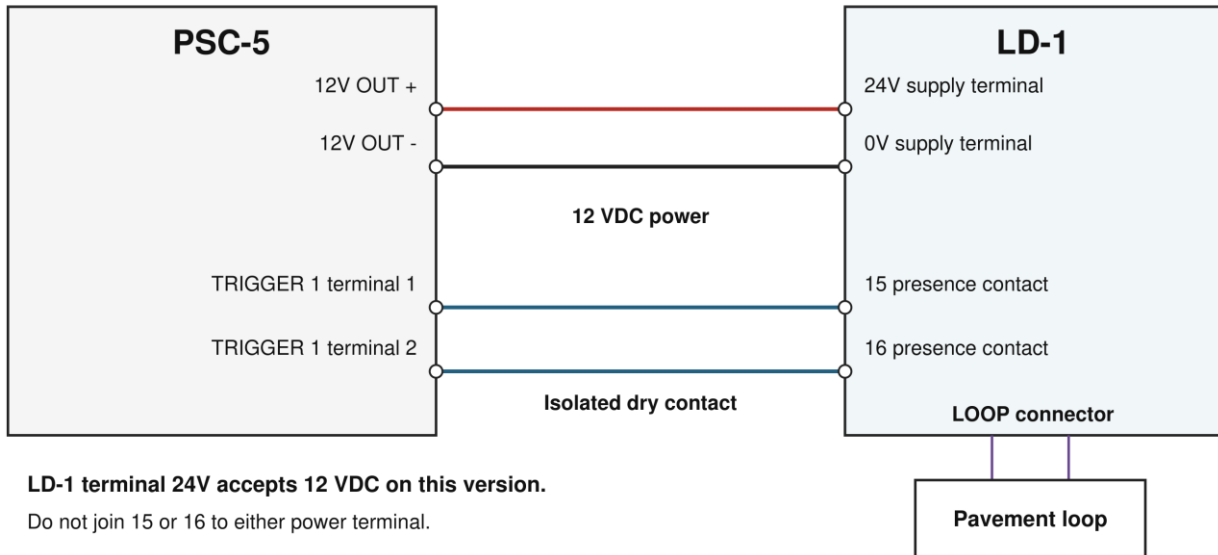


LD-1 QuickSheet

Basic Information and PSC-5 Wiring

Single-channel inductive vehicle detector for a pavement loop. The presence relay closes when a vehicle is detected and can trigger a PSC-5 warning system. This sheet covers the blue LD-1 with s, h, r, d, and f switches.



Functional wiring diagram. Follow the printed terminal labels, not drawing position.
Relay 2 terminals 25 and 28 are unused in this example.

Item	Basic information
Supply	12/24 VAC or VDC. Use 12 VDC from PSC-5 12V OUT for the connection above.
Power allowance	Allow up to 3 W (about 0.25 A at 12 VDC). Keep all PSC-5 auxiliary loads within 1 A combined.
Loop circuit	50 to 800 microhenries; supplier ideal range 100 to 300 microhenries. Connect the loop to the dedicated loop plug.
Mounting	DIN rail inside a protected control enclosure. Keep the unit dry and provide cable strain relief.

Connect and commission

With power off: Connect PSC-5 12V OUT + to LD-1 24V and 12V OUT - to LD-1 0V. Connect LD-1 15 and 16 across the two TRIGGER 1 terminals. These relay contacts must remain isolated from power. Never apply voltage to a PSC-5 trigger.

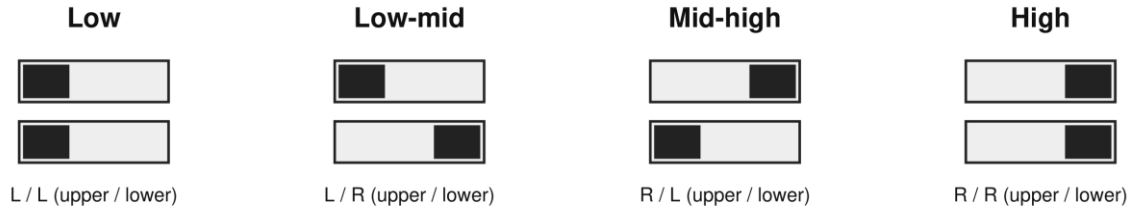
PSC-5 starting setup: P005 = 1; P009 = CLOS; P006 = 10 seconds; P007 = 0; P008 = OFF. Select FLSH or CnOn for the connected warning lights. Press ENTER to save each change, then RESET to exit programming.

Power up with the loop empty. Allow tuning to finish, then drive onto and off the loop. Check detector indication, warning lights, audio, and timing. Adjust P006 for the site. With P008 = On, maintained detection can repeatedly restart the warning timer.

Switch Settings and Troubleshooting

LEFT and RIGHT refer to slider direction when facing the front label. Match the housing legend on the supplied unit before adjustment. Keep vehicles off the loop during startup or recalibration.

Sensitivity s pair



Start at Low-mid: upper LEFT, lower RIGHT. Increase only as needed for reliable detection, then check for false triggers. Restart with the loop empty after changing settings.

Switch	LEFT	RIGHT
h Hold time	Continuous presence	5-minute hold limit, then retune
r Relay 2 function	Presence output	Pulse output
d Activation delay	No added detector delay	2-second detector delay
f Frequency	Low	High

For the PSC-5 example, start with h, r, d, and f LEFT. Relay 2 is unused; r does not change Relay 1 terminals 15/16. Alternate frequency on nearby detectors as needed. A 5-minute hold limit can clear the indication while a vehicle remains on the loop.

LED reference

Green	Red	Meaning
On	Off	Ready; loop clear
On	On	Vehicle detected
Flashing	Off	Tuning / calibration
Off	On	Loop failure or disconnection
Off	Off	No power

Troubleshooting

Symptom	Check
No power indication	Measure supply at 0V and 24V. Check polarity, supply source, and connections.
Loop fault	Check plug seating, continuity, insulation, and inductance. Disconnect the detector before testing loop wiring.
Missed or false detection	Check placement, sensitivity, delay, damaged wiring, loop movement, and interference. Keep the lead-in twisted and away from power cables.
Detector responds; PSC-5 does not	Check 15/16 to the selected trigger pair, CLOS in P009 (or P010 for Trigger 2), and that programming mode is exited.
Warning stays active	Check loop occupancy, P008 restart, timer settings, and the PSC-5 continuous test switch.
Lights work; no audio	Check PSC-5 clock and audio schedule, message selection, speaker wiring, and volume.

Use the LD-1 manual for full installation and testing instructions. Record the tested switch positions and controller settings. Support: 480-689-1993 or Support@PassSigns.com.