Parking Alert Signs
Engineered safety systems for you parking facilities

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EchoSense20 QuickSheet

Radar Presence Detector

PS-PD20 | Installation and wiring



Typical applications

- Parking and access control inputs
- Vehicle-present and queue detection
- Warning signs and approach alerts
- Compatible barrier gate systems

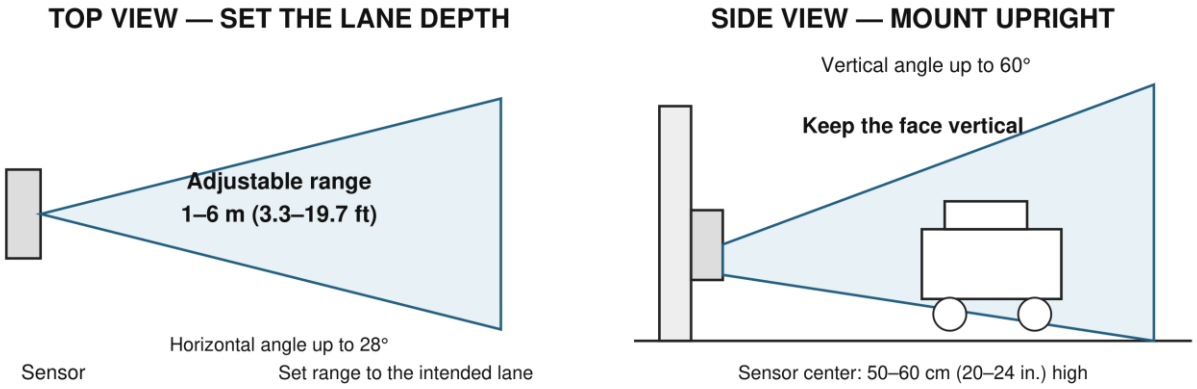
Select vehicles only, or vehicles plus pedestrians. Use presence output for a maintained signal or a timed pulse for activation.

Basic information

Item	EchoSense20
Supply	10–24 VDC; use 12 VDC with PSC-5
Range	1–6 m (3.3–19.7 ft)
Relay contact	1 A at 24 VDC/AC
Output	Presence or adjustable 1–6 second pulse
Housing	ABS + PC; IP67

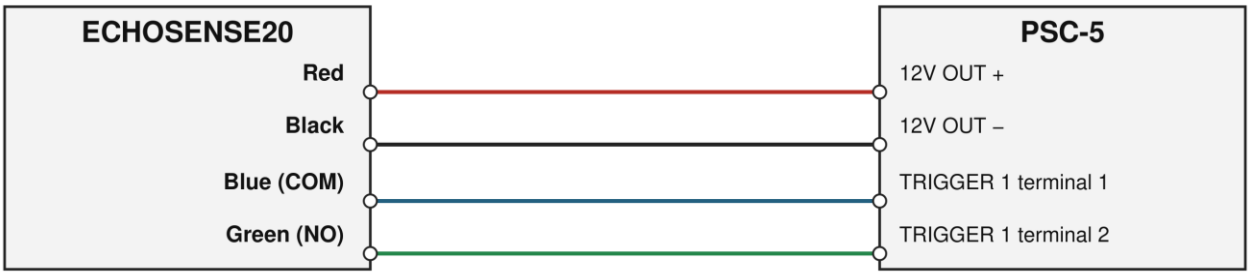
Mount upright, sensor center 50–60 cm (20–24 in.) above ground. At barrier arms, allow 25 cm (10 in.) clearance for octagonal profiles or 30 cm (12 in.) for right-angle profiles.

Detection zone



Conceptual fields, not measured boundaries. Height, targets, surroundings, and settings affect coverage.

PSC-5 connection



Yellow + white connect to the programming pushbutton. Insulate unused orange (NC) and brown separately.

Use radar Section 6 = Trigger and Section 5 = Presence or timed pulse. PSC-5: P005 = 1; P006 = 10; P007 = 0; P008 = OFF. Set P009 = CLOS for closure on detection (P010 for Trigger 2); verify the contact action. Save, then press PSC-5 RESET to exit.

Provide at least 200 mA supply capacity for the radar; keep all PSC-5 12V OUT loads within 1 A combined. Keep power and relay circuits separate.

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PS-PD20 | Programming and checks

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1. Select: Hold the programming button for about 5 seconds. Keep holding as the red section patterns advance; release at the required section.

2. Change: Short-press the button to cycle through the green value patterns.

3. Save: Hold the button until all three red lights flash together, then release. Repeat for each section.

Read lights LEFT → RIGHT. RED selects the section; GREEN shows the setting.

RED on | Off | RED flash | GREEN on | GREEN flash

Section	RED	Setting	Default
1	● ○ ○	Detection distance	3 m
2	○ ● ○	Sensitivity / factory reset	Medium
3	○ ○ ●	Gate closing time	6 seconds
4	● ○ ●	Vehicle / pedestrian distinction	Distinguish
5	○ ● ●	Presence or timed pulse	Presence
6	● ● ●	Application profile	Straight-bar barrier

Range and gate closing time

GREEN	Range (m / ft)	Close (s)
● ○ ○	1.0 / 3.3	2
✳ ○ ○	1.5 / 4.9	3
○ ● ○	2.0 / 6.6	4
○ ✳ ○	2.5 / 8.2	5
○ ○ ●	3.0 / 9.8	6
○ ○ ✳	3.5 / 11.5	7
● ○ ●	4.0 / 13.1	8
✳ ○ ✳	4.5 / 14.8	9
○ ● ●	5.0 / 16.4	10
○ ✳ ✳	5.5 / 18.0	11
● ● ●	6.0 / 19.7	12

Common GREEN light patterns

Section	Light patterns
2 Sensitivity	● ○ ○ Low; ○ ● ○ Medium; ○ ○ ● High; ✳ ✳ ✳ = factory reset
4 Targets	● ○ ○ Vehicles + pedestrians; ○ ● ○ Vehicles only
5 Output	○ ○ ○ Presence; ● ○ ○ 1s; ○ ● ○ 2s; ○ ○ ● 3s; ● ○ ○ 4s; ○ ● ○ 5s; ● ○ ● 6s
6 Profile	● ○ ○ Straight-bar barrier; ○ ● ○ Fence-style barrier; ○ ○ ● Trigger mode

For warning signs: choose Trigger mode, set the lane range, then select Presence or a 1–6 second pulse. Use the manual for gate profiles and factory-reset procedures.

Quick checks

Missed detection: check range, sensitivity, target mode, and mounting. Persistent output: check for excess range, obstructions, or gate movement. Three green lights staying on after startup: restart; contact PASS if the fault persists.

Test moving and stopped targets, zone edges, and controller response. For gates, retain required protective devices and verify operator compatibility.

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