

Van & LGV Parking Sensor

Specification and Installation Checklist — backwatch.co.uk

Use this checklist when specifying, procuring, or inspecting proximity sensor fitment on vans and light goods vehicles. Complete before installation and again at walk-test.

1 — Vehicle Assessment

- Confirm vehicle GVW — determines which FORS equipment tier applies
- Confirm bumper material (metal = rubber sensors; plastic = standard sensors)
- Confirm electrical system voltage (fleet sensors must cover 10–35V range)
- Confirm body type (fixed bodywork = wired; interchangeable body = consider wireless)
- Check if reversing camera already fitted — determines integration scope

2 — Rear Sensor Specification

- Minimum 4 sensors across full rear width (standard Transit/Sprinter/Crafter)
- 6 sensors for long-wheelbase variants — covers rear corner angles
- Set sensor height 0.7–0.9m (detects adults and children at residential addresses)
- Underhung bracket mount if bumper profile prevents flush drill mount
- IP rating $\geq$ IP67 for wash-down environments
- Walk-test zones: caution 1.5–3m (intermittent), stop 0–1.5m (continuous)

3 — Side Sensor Specification (Urban LCVs)

- Assess need for nearside sensors (urban routes, cycling infrastructure, left turns)
- Sensor run from cab door to rear of load area on nearside
- Side sensors activate below speed threshold (typically 15–20 mph)
- Consider offside sensors for tight yards or loading dock work

4 — Front Sensors (Optional)

- Assess need for front sensors (tight yards, loading bays with forward blind spots)

- Front sensors activate at low speed or via manual trigger
- Confirm front sensor height clears number plate and tow coupling if fitted

5 — Display and Integration

- Output routed to cab display — not buzzer-only
- Display shows which zone triggered and approximate distance
- If MDVR fitted: sensor wired to MDVR trigger input
- Sensor trigger switches cab display to reversing camera view automatically
- MDVR flags sensor-triggered clips as event recordings

6 — Walk-Test and Sign-Off

- Caution zone confirmed at 1.5–3m from rear obstacle
- Stop zone confirmed at 0–1.5m (continuous alarm)
- Side sensor zones walk-tested with vehicle stationary
- No false triggering from towbar, step, or ground surface
- Installation record filed (FORS audit evidence if applicable)
- Driver briefed on alert progression and cab display zones