

Sensor Placement Checklist for Waste Collection Vehicles

Verify sensor positions and calibration against each hazard zone on your RCV fleet

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Use this checklist to audit sensor coverage and calibration on each refuse vehicle type in your fleet.

Rear Proximity Sensors

- ☐ Rear sensors fitted and triggered by reverse gear
Width covers vehicle plus 0.5m each side
- ☐ Sensor mounted on rear face of hopper body
Accounts for hopper protrusion from main body
- ☐ Caution zone: 1.5–3m intermittent alert
Yellow zone — intermittent audible warning
- ☐ Stop zone: 0–1.5m continuous alarm
Red zone — continuous alarm, immediate halt
- ☐ Rear sensor integrated with rear-facing camera
Auto full-screen switch to camera on stop zone

Nearside Sensors

- ☐ Nearside body sensors fitted (kerbside clearance)
Chassis height — detects parked vehicles and kerbs
- ☐ Rear nearside corner sensor fitted
Crew-on-foot zone during collection stops
- ☐ FORS Silver nearside sensor requirement met
Documented — audible alert confirmed active
- ☐ False alert calibration checked (FORS v7 compliance)
Must not trigger from kerb, bodywork, furniture
- ☐ Nearside sensors active during collection stops
Verified at typical vehicle-to-kerb gap

Front MOIS Sensors

- ☐ MOIS sensor/camera fitted at front of cab or bumper
Covers nearside and offside front zone
- ☐ Detection range: 0–4m ahead of vehicle
Active during stationary-to-moving transition
- ☐ MOIS active at low speed only (not route driving)
Threshold set to prevent highway false alerts
- ☐ FORS Silver v7 compliance confirmed (mandatory Jan 2025)
Previously desirable — now mandatory
- ☐ DVS PSS MOIS coverage confirmed (London vehicles)
Part of PSS package requirement

Bin-Lift Zone Sensors

- ☐ Bin-lift zone sensor fitted alongside lift mechanism
Detection from 0.3m to 1.8m height range
- ☐ Sensor coverage verified across full lift travel path
No shadow zones during mechanism travel

- ☐ **AI halt integration confirmed (if available)**
Lift cycle halts automatically on person detection
- ☐ **Driver briefed: alert = stop cycle immediately**
Not caution — halt and visual check first
- ☐ **Sensor excludes lift arm self-detection**
Calibrated to ignore mechanism travel path

Calibration and False Alert Management

- ☐ **Walk test completed at required detection distances**
Person approaches — alert fires at correct zone
- ☐ **Compaction vibration exclusion confirmed**
G-threshold adjusted for compaction noise
- ☐ **Bin-lift self-detection excluded from alert triggering**
Sensor configured for stationary-only activation
- ☐ **IP67 minimum rating confirmed on all external sensors**
IP69K for low-mounted or jet-wash environments
- ☐ **Calibration to be repeated after any body modification**
New brackets, body swap, or hopper change