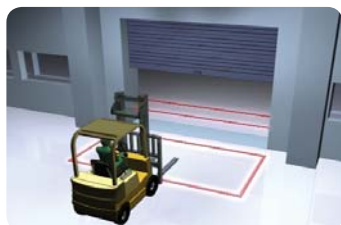




Ref. Nestor: TOE50/1 & TOE50/2
TOE54/1 & TOE54/2

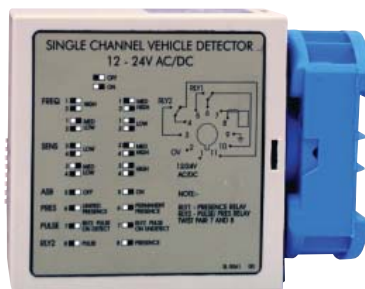
Reliable Underground Single & Dual Channel Vehicle Detection

Invisible and versatile vehicle detection sensor ideal for industrial door, gate or parking barrier access control



- **High Bed Vehicle Detection**
Wide self tuning range to allow for the detection of high bed vehicles
- **Prevent Vehicle Damage**
Prevent door or gate closures on static vehicles by selecting the permanent presence or pulse detection output feature
- **Reduced Energy Loss**
Direction logic feature reduces door open time resulting in decreased building energy loss¹
¹ ULD923 dual loop only
- **Cost Efficient**
Reduce cost by using two loops with only one controller





Technical Specification

Accessories Provided



11 Pin Connector

Model	(Single Loop)	(Dual Loop)
Detection Method	Induction detection	Induction detection
Sensor Dimensions	76mm (high) x 40mm (wide) x 75mm (deep)	76mm (high) x 40mm (wide) x 75mm (deep)
Supply Voltage	12 - 24V AC/DC	12 - 24V AC/DC
Supply Voltage Tolerance	± 15%	± 15%
Current Consumption	100 mA max	165 mA max
Operating Temperature	-40°C to +80°C, (-40°F to 176°F)	-40°C to +80°C, (-40°F to 176°F)
Sensitivity	Four step adjustable Maximum 0.02%ΔL/L Minimum 0.5%ΔL/L	Four step adjustable Maximum 0.02%ΔL/L Minimum 0.5%ΔL/L
Sensitivity Boost	Selectable on Med High, Med Low & Low Settings	Selectable on Med High, Med Low & Low Settings
Indications	2 LEDs Green = Power Red = Output	3 LEDs Green = Power Red x 2 = Output per channel
Presence Time	Selectable - Permanent or limited (1hr for 3%ΔL/L)	Selectable - Permanent or limited (1hr for 3%ΔL/L)
Pulse Output Duration	150 ms (250 ms factory option)	150 ms (250 ms factory option)
Response Time	Approx. 100ms	Approx. 120ms
Tuning	Automatic	Automatic
Output Configuration	2 Output relays Relay 1 - Presence (Fail Safe) Relay 2 - Pulse/Presence (Selectable)	Selectable on PCB 2 Output relays Relay 1 - Presence/Pulse/AB Relay 2 - Presence/Pulse/BA
Inductive Range	20-1500 μH	20-1500 μH
Loop Frequency Range	Four step adjustable range 20 - 140kHz	Four step adjustable range 20 - 140kHz
Connector	Single rear mount 11-pin submagnal	Single rear mount 11-pin submagnal
Ordering Details	(Single Loop) + Finder Base included	(Dual Loop) + Finder Base included

Dimensions (inches/mm)



Supply voltage

230 V A.C.

Single: ref. TOE50/1

Dual: ref. TOE50/2

12/24V

Single: ref. TOE54/1

Dual: ref. TOE54/2