



RHB Vehicle Detector

Combining Optimum Detection with Economical Solution, this universal detector embodies a revolutionary concept.

Based on an « Infrared » technology, it operates as a **virtual and adjustable loop** without any roadwork.

High-technology components in infrared and signal processing as well as an exceptional level of integration, contribute to present this detector in a compact one-piece housing.

Self-sufficient, this system can be easily set, used and maintained without any external display.

Its optional **infrared remote control** makes the adjustments comfortable from the bottom of the installation. Adjustments can be immediately seen, checked, modified at user's best convenience.



Applications :

- ✓ Traffic regulation.
- ✓ Traffic lights control.
- ✓ "Turn-on-left" detection.
- ✓ Bus Lane detection.
- ✓ Access control (doors, barriers, bollards).
- ✓ Counting.

Properties :

- ✓ Self-sufficient.
- ✓ Static and/ or dynamic detection.
- ✓ Virtual, very precise and adjustable detection area.
- ✓ Vehicles and pedestrians detection.
- ✓ Up to 100 m range.
- ✓ Various presence time (reset).
- ✓ Size discrimination.
- ✓ Easy access to adjustments on front plate or by infrared remote control with personal code.

Main features:

• Technology

The SPOT range detector combines both a high definition Infrared Sensor and a powerful Digital Signal Processor (HCmos DSP) which make its operating reliable.

• Infrared remote control (option)

The SPOT detector's adjustments can be easily checked and modified at distance without any constraint. Each remote control device is customized by a personal code.

• Detection range

Different options enable to set the detection area between 0 and 100 meters.

• Detection area

Made of various sizes and shapes, the multiple detection areas allow many applications. The SPOT detector can be used for 1 or 2 lanes, for bus, cars or two-wheels, for long or short distance detection including « turn-on-left » vehicles, all with the same precision.

• Sensitivity

Adjustable on 4 levels, this parameter improves the reliability of the detection.

• Size discrimination

Thanks to the sensitivity adjustments, size discrimination and detection filters can be processed according the target's size.

For instance, this function enables to avoid false detections such as pedestrians, dogs, etc. when detection is only focused vehicles. Also, SPOT can act as a filter and only detect big size vehicles such as trucks, bus, trolleys or tramways.

• Static & dynamic detection

The SPOT detector can be asked to detect only driving vehicles (presence time 0s) or both driving and stopped vehicles (presence time 4 or 10 mn).

• Easy installation

The SPOT detector is easy to install high up the traffic lights or public light post, signalling boards, etc. with an adjustable mounting bracket.

• Aiming

In order to help you to aim and define the loop, this detector comes equipped with a device similar to a "rifle".

• Compact and discreet housing

Waterproof IP66, protected by an epoxy painting, Sunshield for thermo protection.

• Easy and fast connection

Removable IP68 connector.

• Outputs

Relay with positive security, optocoupler. Serial RS 485 in option.



Technical characteristics:

Technology	Infrared.
Detector range	From 0 to 100 m according to the detection area selected.
Infrared remote control	Transceiver.
Mode	Omni directional
Commuted power	Relay output TOR NO/NC = 10 mA/10VDC to 2A / 230VAC. Opto-coupled output NO/NC = 40VDC 10MA
Output	Relay TOR or optocouplor or RS485 or Radio.
Power supply	24 VAC & 230 VAC 48-62Hz / 12VDC & 24VDC ; protection by fuse.
Power tolerance	AC = + - 15% / DC = -10% + 20%.
Power requirements	< 2 VA.
Temperature ranges	Stock: -40 to +85°C Use : -30° to 70°C.
Housing	IP 66 with thermo protection/ U.V. resistant epoxy painting.
Dimension / weigh	210 x 80 x 65 mm out of connector and binding / 1Kg.
Connection	Connector IP68 / pre cabled connector in option (5m cable).
Adjustments	Dip and rotary switches on front face or infrared remote control.
Display	High luminosity LED on front face.
Norm	Conform to EC norms.

Technical notice on request: Ref. DV62001A

Options:

Infrared transmitter/receiver for remote control.
Personal protocol for serial output.
Customized colours with epoxy painting.

Glossary:

NO = normally open ; NC = normally closed
NO/NC functionality: power supplied and product out of detection.
Positive security: relay closed when out of detection.

Accessories:

Ref.: WAB-0 -025 = adjustable 2 axes mounting bracket .
Ref.: WAB-0 -024 = swerving brace for post.
Ref.: WAB-TEL-A00 = remote control transceiver.

References organisation:

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Version

- 0 1 ZONE
- 1 Future version
- 2 Future version
- 4 Future version
- 8 Future version

Mode

- 0 Output 1 NO and NC (**Relay / Opto**) *
- 1 Output 2 NC/NO (**Relay / Opto**)*
- 2 Output 2 NC/NO (**Relay / Opto**)* / Pulse and presence
- 6 Output 2 NC/NO (**Relay / Opto**)* / Presence and tech alarm

Option

- 0 No option
- 2 with infrared transceiver for remote control
- α numeric alpha colour under customer's request

* = positive security

Connection

- 1 Connector 6pts IP68+cable 5m
- 2 Connector 6pts IP68

Output

- 0 TOR relay*
- 5 RS 485 (please consult).
- 6 Optocouplor
- R Radio (please consult)

Power supply

- 0 24 VAC
- 3 230 VAC
- 6 12VDC
- 7 24VDC

Preferential references:

- RHB - 000- 302 : Sensor 1 Zone - 230vac, 1 relay NO+NC, positive secu., connector.
- RHB - 000- 301 : Sensor 1 Zone - 230vac, 1 relay NO+NC, positive secu., connector and cable 5 m.
- RHB - 002- 302 : Sensor 1 Zone - 230vac, IR trans/receiver, 1 relay NO+NC, positive secu., waterproof connector.
- RHB - 002- 301 : Sensor 1 Zone - 230vac, IR trans/receiver, 1 relay NO+NC, positive secu., waterproof connector and cable 5 m.

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