



**H**igh-technology SPOT radars use the Doppler Fizeau principle in the 24,125 GHz frequency (band K).

Thanks to this **high frequency** band, SPOT radars detection results are fully effective and reliable.

Each **parameter** - range, direction of movement, speed threshold, minimum movement, filters, etc. - can be easily adjusted on front plate.

Its optional **infrared remote control** makes on-site configuration easier. Adjustments can be immediately seen, checked, and modified at the user's convenience.

### Applications:

- ✓ Traffic light control,
- ✓ "Green wave" regulation,
- ✓ Over-speed signalling,
- ✓ Traffic jam detection.

### Main features:

#### • Technology

SPOT microwave radars (24.125 GHz) are associated to a very powerful microprocessor (type Hcmos) to ensure reliable operation.

#### • Detection range

Capsys RXC radar in 60m, 100m, 150m or 180m version can deliver 2 information depending on the chosen version:

- 1 relay mode can detect a vehicle driving over or under a chosen speed,
- 2 relays mode can detect on the 2<sup>nd</sup> relay and in parallel, all vehicles regardless of their driving speed.

#### • Driving direction for detection

Two possibilities selectable by switch: unidirectional for approaching vehicles or omnidirectional for both directions. It makes this product flexible in terms of use.

#### • Minimum length of movement

This is the minimum movement before detecting a vehicle. This function acts as a real "filter", rejecting "false" detections due to the direct environment (trees, wind, instable post...). It ensures that only the desired target is detected.

#### • Compensation of the inclination angle

A specific setting compensates the measure error due to radar inclination angle.

A precise marking on the fixing bracket easily defines the correction setting to apply.

### Doppler Microwave Radar.



### Characteristics:

- A detection range of 60m, 100m, 150 m or 180m.
- Unidirectional (arriving) or omnidirectional,
- 16 adjustable speed thresholds,
- Detachable IP68 waterproof connector or cable gland output,
- Easy access to adjustments on front plate.

#### • 16 speed thresholds

Selectable thanks to a rotating switch:

- 1 km/h to 130 km/h for 150m version
- 1 km/h to 55 km/h for 60m version.

#### • Easy installation

Easy to mount on traffic lights or on public light posts, traffic signs, etc. with a double-axle, adjustable mounting bracket.

#### • Adjustments without dismantling

Easy access thanks to a waterproof front plate or with remote control from ground level.

#### • Led display

High luminosity Leds on front face for all detections and/or over/underspeed detection.

#### • IP66 housing

Compact and discreet UV-resistant plastic housing

#### • Connection

Detachable IP68 waterproof connector and/or 5 m cable.

#### • Outputs

Relay with positive security and serial link with speed data transmission in option.

## Technical characteristics:

Technology	Microwave 24,125Ghz.
Radar range	60m / 100m / 150m / 180m long range
IR remote control	For adjustments (in option)
Mode	Directional over/underspeed 16 thresholds Directional all detections from 1 to 200km/h.
Commuted power	Relay output: 230 VAC / 2 A ; Opto-coupler output : 30 VDC / 100 mA
Output	Relay ; opto-coupler; RS 485 or RS 232
Power supply	230 VAC / 24VAC 48-62Hz / 12VDC / 24VDC; protection by fuse
Power tolerance	AC = + - 15% / DC = -10% + 20%.
Power requirements	< 4VA.
Temperature ranges	Storage: -40°C to +85°C Operation: -30°C to +70°C.
Housing	IP 66 / U.V. resistant
Dimension / weight	126X131X172 mm with fixing bracket / 980g with connector and fixing bracket
Connection	1 IP68 connector 6 pts or cable gland + 5-metre cable
Adjustments	8 dip and rotary switches on front face or by Infrared remote control
Display	High luminosity LED on front face.
Standards	EC

Technical notice on request

## Options:

Low current consumption (solar panel, battery, ...please consult).

## Accessories:

Ref. : WAB-0 -040 = adjustable double-axle fixing bracket

Ref.: WAB-0 -024 = extension brace for post.

## Standard references:

RXC-000-001-000: 150m range, direct. over/underspeed, 24 VAC, dry contact relay, IP68 connector + 5 m cable

RXC-000-301-000: 150m range, direct. over/underspeed, 230 VAC, dry contact relay, IP68 connector + 5 m cable

RXC-000-302-000: 150m range, direct. over/underspeed, 230 VAC, dry contact relay, IP68 connector

RXC-000-305-000: 150m range, direct. over/underspeed, 230 VAC, dry contact relay, cable gland + 5 m cable

RXC-010-301-000: 150m range, direct. over/underspeed + all detections, 230 VAC, dry contact relay, IP68 connector + 5 m cable

RXC-300-301-000: 60m range, direct. over/underspeed, 230 VAC, dry contact relay, IP68 connector + 5 m cable

RXC-300-302-000: 60m range, direct. over/underspeed, 230 VAC, dry contact relay, IP68 connector

RXC-300-305-000: 60m range, direct. over/underspeed, 230 VAC, dry contact relay, cable gland + 5 m cable

RXC-310-301-000: 60m range, direct. over/underspeed + all detections, 230 VAC, dry contact relay, IP68 connector + 5 m cable

Please consult us for other references availability

## References organisation:

