

RADARS R-FLEX

Multi-application detection for a safe and smooth traffic



In order to deal with the increasing number of multiple users sharing the urban space and the resulting need for regulation, CAPSYS has developed the R-FLEX radar range. It adapts to multiple applications and combines precise detection and speed measurement.

BENEFITS

- Traffic control
- Active mobility integration into the urban space
- No civil work
- Less traffic jam and less pollution

APPLICATIONS

- Traffic light priority
- Green light extension for pedestrians
- Warning sign activation
- Security of crossroads or hazardous areas
- Smart public lighting

Operating principles

R-FLEX radars are 24GHz Doppler microwave sensors.

They detect reliably all types of vehicles, cycles and pedestrians, without suffering from the environment constraints. The detection activates a signal to traffic light controllers, warning signs, public lighting equipment, etc...

They are fully configurable thanks to the Cap'Mobile application, which gives them great flexibility of use.

Characteristics

Performance

The different versions of R-FLEX radars detect all types of vehicles or cyclists and pedestrians. They have an adjustable detection range to setup according to the application and detections can be conditioned to over/under speed threshold, or direction.

PRODUCT STRENGTHS

- Quick and easy installation
- No civil work
- Reliable and adjustable detection
- No maintenance
- Cap'Mobile compatible

Easy to set up according to the installations

The R-FLEX radars are designed to easily fulfill multiple applications. They can be set up from the ground thanks to the Cap'Mobile application (Bluetooth connexion). All their parameters are readable and adjustable quickly and the outputs fully configurable (NO/NC, active or not,...) which give them an important flexibility of use.

Easy to position

The radar multi-position mounting bracket makes it easy to instal it on different types of mounts (poles, walls, ...) with only one standard tool. It also enable to tilt it in the proper position (tilt angle of 100° vertical / 220° horizontal).

Technical characteristics

Technology	24 GHz Doppler radar
Detection range	Adjustable up to 180m (depending version)
Output type	2 fully configurable optocoupler outputs Max 50mA / 30VAC / 40VDC
Output configuration	Output can be enabled or disabled Speed threshold adjustment, holding time Sense of detection (incoming/outgoing/omnidirectional)
Connexion	IP connector 68 + 30cm cable Gland connection with 5m cable
Supply voltage	230VAC - 12 à 24VACDC
Consumption	1W - 13mA @ 230VAC / 500mW - 35mA @ 24VAC / 200mW - 25mA @ 12VDC
Temperature range	Stock : -40°C à +85°C Operating -30°C à +70°C.
IP	boitier IP68 - UV resistant
Dimensions	132 x 78 x 70mm 500g 230V versions (connectors + fixing bracket)
Interfaces	Configuration: CAP'MOBILE application Display: front panel LED (deactivable)
Standards	European Directive 2014/53/EU

Accessories

5m cable + connector
Offset fixing bracket