



Order designation

Radar MultiView RMV | RMV-G2

Intelligent measuring 2-D-radar, utilizing a modulation processes to generate a total of five measurement data sets in order to perfectly control the opening time and duration of automatic gates in an energy-efficient and effective way.

Art.-No. 10001337

Features

- Large detection area
- Fixed cable connection
- 2 semiconductor relay outputs
- Classification of person/vehicle, one separate output per category
- The opening pulse determines the opening time and duration of the gate
- Cross traffic and parallel traffic suppression
- Improved energy efficiency, even for existing installations
- Parameterization via WEB interface

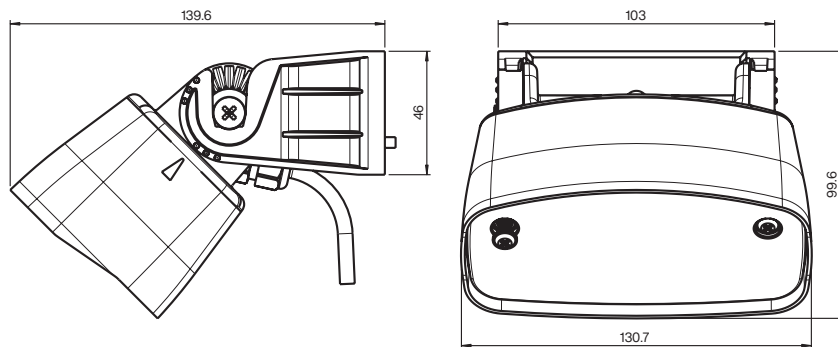
Applications

- Ideal for retrofit business
- Simple connection concept

Approvals and certificates

- 2014/53/EU: This device may be operated in all countries of the European Union. In other countries, the applicable national regulations must be applied.

Dimensions



All dimensions in mm; Dimensions when installed

Technical Data

General Specifications	
Function principle	Measuring 2-D-Radar with 3 operating areas: Detection area: determined by the mounting height Activation area: adjustable to application via Web-Interface Near area: adjustable to application via Web-Interface
Classification	Person and vehicle
Mounting position	Above the gate, in the middle, left or right; integrated mounting aid with IMU for all 3 spatial angles
Mounting height	Min. 2 m; max. 10 m
Detection speed	Min. 0.1 m/s, max. 8.0 m/s
Setting angle	Vertical: -90° ... +90°
Radar operating frequencies	24.150 GHz; can be switched to 24.050 GHz and 24.250 GHz; enables the operation of 3 radar units mounted close to each other
Radar aperture angle	34° x 80°
Minimum sensing area	f (H, α) indication via Interface
Width x depth	
Cross-traffic suppression	Adjustable: on (100%, no triggering), middle (50%), off (0%)
Opening speed of the gate	Adjustable in [m/s]
Transmitter radiated power (EIRP)	< 20 dBm
Parameter settings	WLAN (OTA)
Integrated temperature reading	°C / °F / °K, output via interface
Approvals and certificates	CE
Indicators / Operating elements	
Function indicator	1 x LED (rgb)
Control elements	None
Electrical specifications	
Operating voltage	AC: 8 ... 35 V AC +/- 10% DC: 8 ... 45 V DC +/- 10%
Power consumption	< 2.5 W
Connection cable	
Cable, 8 pin open ends	6 m (included in delivery)

**Technical Data**

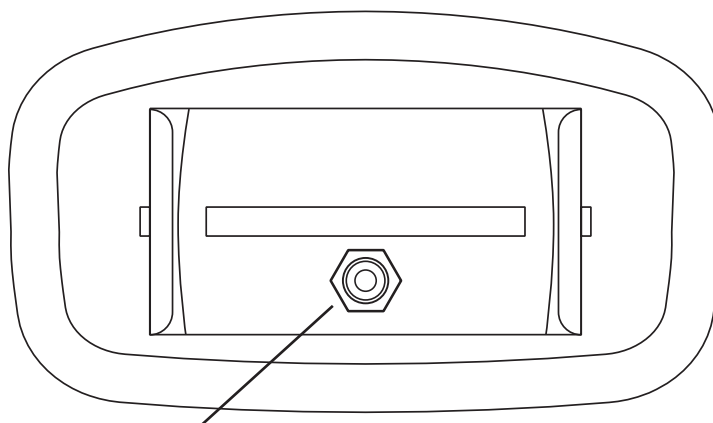
Outputs	Short circuit protected, normally open/closed (NO/NC) and event (see below) configureable via WEB-Interface
Signal output relay 1	Solid-state relay
Switching voltage relay 1	Up to 60 VAC/VDC
Switching current relay 1	Max. 0.5 A
Holding time relay 1	Adjustable in [s]
Signal output relay 2	Solid-state relay
Switching voltage relay 2	Up to 60 VAC/VDC
Switching current relay 2	Max. 0.5 A
Holding time relay 2	Adjustable in [s]
Events	Events can be assigned to the outputs via parameter settings. Triggering on people; triggering for vehicles; triggering in combination; partial gate opening; fast opening; slow opening; counting of persons and/or vehicles; temperature control
Digital interface	
ESP-NOW	Short range wireless protocol, max. 25 m
Ambient conditions	
Special features	Resistance against weather and vibrations
Operating temperature	-40 ... 80° C (-40 ... 176° F)
Storage temperature	-40 ... 80° C (-40 ... 176° F)
Relative humidity	Max. 90% non condensing
Mechanical specifications	
Degree of protection	IP67
Connection	Fixed cable, 8-pin, open cable ends
Housing	Polycarbonat (PC), anthrazit
Mass	650 g
Dimensions	131 mm x 73 mm x 136 mm
Parameter setting	
Method	All parameters can be set up via WEB-Interface
Operating ranges	Detection area of up to 10 x 10m, depending on mounting height and setting angle Activation area: configureable inside the detection area as a polygon with max. 8 points. Near area: configureable inside the detection area as a polygon with max. 8 points.

Connections**Fixed cable connection, 8-pin:**

AC/DC*	BN (brown)
AC/DC*	GN (green)
Relay 1 **	GY (grey)
Relay 1	PK (pink)
Relay 2 **	YE (yellow)
Relay 2	WH (white)
Do not connect	RD (red)
Do not connect	BU (blue)

* = Polarity is not relevant

** = NO or NC contact function and activation for "Person" or "Vehicle" is configureable



Fixed cable connection

Illustration is not to scale.