

Application range

- Traffic light installations
- Speed warning installations

Features

- High range (up to 250 m)
- Immune to environmental influences
- Safety IP65
- Easy installation and maintenance
- One-way vehicle detection
- Adjustable speed threshold
- Mounting angle irons included
- RD_P12P with data interface

Description

The series RD_X detectors represent radar motion detectors for over-head detection of vehicles. They control traffic light installations and speed warning installations. One can achieve simple requests or speed-dependent detection.

The detection of vehicles is generally one-directional; that way, oncoming traffic is not taken account of. The detecting direction is determined by jumpers. Detectors are installed (2 - 5) m high, above or next to the lane. Sensitivity is adjusted by jumpers. In this way, a range of approx. (100 - 250) m can be achieved.

The speed threshold is adjustable from (0,5 – 100) km/h in 16 levels via a hex-switch (factory setting: 8 km/h).

A potential free relay contact and an opto-coupler output serve as switching outputs. The standard setting of the impulse time is 1 sec. For function control the Doppler signal can be adapted via a second opto-coupler.

The high safety of IP65 and the wide operational temperature range allow outdoor installation.

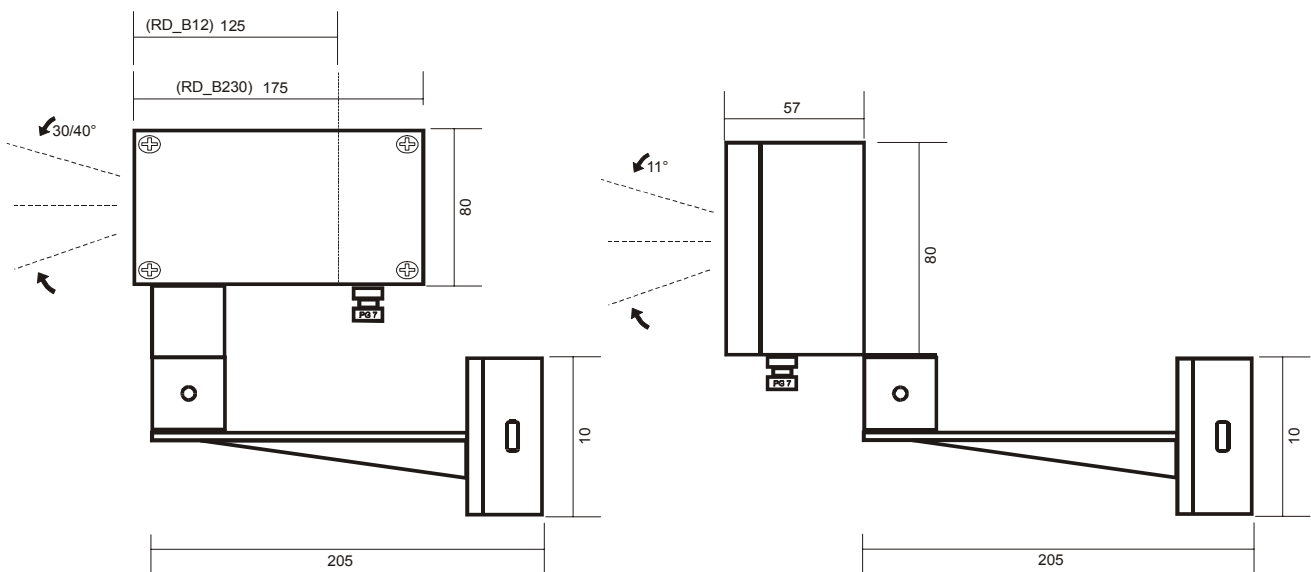
□ Technical Data:

Name:	RD_B12	RD_B230	RD_B12P	RD_P12P
Power supply	12V-DC	230V-AC	12V-DC	12V-DC
Power consumption	250mA	20mA	250mA	250mA
Transmitter frequency	24,125 GHz	24,125 GHz	24,125 GHz	24,125 GHz
Transmitting power	5 mW	5 mW	5 mW	5 mW
Data-interface	non	non	non	RS232
Antenna	Horn	Horn	Patch	Patch
Detection angle	30 x 40°	30 x 40°	11 x 11°	11 x 11°
Range approx.	10m – 250m	10m – 250m	10m – 250m	10m – 250m
Speed thresholds adjustable in 16 levels	0,5 km/h to 100 km/h	0,5 km/h to 100 km/h	0,5 km/h to 100 km/h	0,5 km/h to 100 km/h
Enclosure Cover	die-cast alumin. die-cast alumin.	die-cast alumin. die-cast alumin.	die-cast alumin. polyamide	die-cast alumin. polyamide
Safety	IP65	IP65	IP65	IP65
Operational temp.	-40°...+60°C	-40°...+60°C	-40°...+60°C	-40°...+60°C
Weight	605 g	900 g	605 g	605 g
Switching output 1 (relay)	potential free change-over	potential free change-over	potential free change-over	potential free change-over
Switching output 2 (opto-coupler)	potential free	potential free	potential free	potential free
Test output Doppler signal	opto-coupler	opto-coupler	opto-coupler	opto-coupler

Diagram:

RD_B12
RD_B230

RD_B12P
RD_P12P



(Measurements in mm – measurements are subject to manufacturer's tolerance)