

# R3S-10 Radar Scanner

Detection of Static and Dynamic  
Objects at Force-limited Barrier  
Systems

Radar based scanner | Detection  
range 6 m x 6 m | Ensures increased  
safety in accordance with EN 12453



**EN 12453**  
Protection level D

## Comfortable Solution for Barrier Systems

The R3S-10 radar scanner is an intelligent detection device for detecting static and dynamic objects at force-limited barrier systems according to EN 12453 protection level D. The focus is on the reliable differentiation of vehicles and people in the detection and danger area of barriers. The R3S-10 radar scanner eliminates the need for complex working in the road surface.

### Functionality

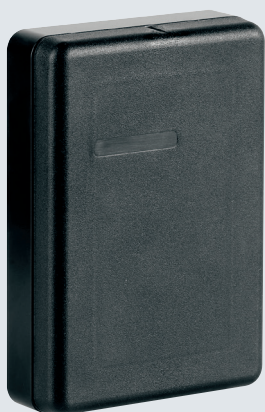
The intelligent radar scanner R3S-10 works with an operating frequency of approx. 60 GHz. The sensor safely detects moving and stationary objects in front of a barrier. By detecting the movement direction and suppressing cross traffic a targeted passage is ensured. A distinction is also made between authorized vehicles and authorized persons. After switching on, LEDs are active and access via Bluetooth using an app is available for simple, guided and quick commissioning. A particular strength is the robustness of the radar housing against a wide range of weather influences and violent interventions.

### Extract of Technical Data

### R3S-10 Radar scanner

Technology	Radar, FMCW
Frequency range	60 – 64 GHz
Detection range	max. 6.0 m x 6.0 m acc. EN 12453, protection level D
Connection	10-pin connection cable 0.25 mm <sup>2</sup>
Protection class	IP65
Protection level D	EN 12453
Power supply	9 – 30 V DC
Power consumption	max. 1.8 W
Temperature range	-30° C to +55° C
Signal outputs	3 solid state relays, galvanically isolated
Signal input	1 digital input testing
Communication interface	Bluetooth® BLE 5.0

Radar Scanner R3S-10



R3S-10 on mounting bracket 120°



R3S-10 on mounting wedge 30°



### Highlights

- Increased safety thanks to EN 12453 protection level D
- Classification of objects for barrier opening and protection
- Tracking of static and dynamic objects
- Intuitive environment learning function and device configuration via mobile app
- Product lifecycle management and updates via Bluetooth and mobile app
- Cable connection for 3 outputs: configurable output function, safety area, configurable 3rd output
- Robust compact housing with protected connection cable

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