

# RADS01

Radar sensor for barriers



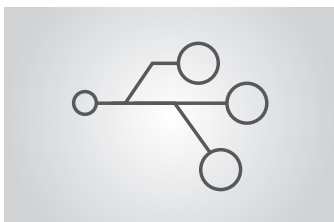
## The Alternative to Induction Loops and Photocells

The RADS01 radar sensor from Feig Electronic GmbH is an intelligent detection device for identifying static and dynamic objects at barrier installations. Based on millimeter-wave technology, it detects pedestrians (Protection Level D according to EN12453) as well as vehicles within predefined zones to ensure reliable barrier operation.

Through cross traffic suppression and motion direction recognition, targeted passage is guaranteed. The system also differentiates between pedestrians and vehicles, allowing access only to authorized objects.

The powerful radar technology and specialized detection algorithms ensure robustness against various weather conditions such as rain, snow, and fog.

Optical feedback is provided by colored LEDs directly on the unit, allowing immediate status and diagnostic information at the barrier. A secure, access restricted Bluetooth interface enables easy commissioning, configuration of detection zones, and further data communication with the service app.



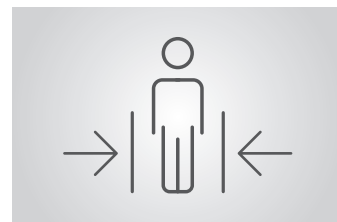
### Intuitive Configuration

Commissioning, definition of detection zones, and data communication via access restricted Bluetooth service app



### In any weather, at any time

The virtual loops are reliable and resistant in all environments and conditions, including challenging weather like fog, heavy rain, frost or snow.



### Alternative to photocells

The radar sensor can also be used as a replacement for photocells (EN 12453 protection level D). However, this is only possible in conjunction with barrier arms exerting a maximum impact force of 400 N (protection level C).

ACCESS

PARKING

TOLL

TRAFFIC

# RADS01

## Radar sensor for barriers

- › Simple, user-friendly installation. No more dusty road works with noisy and heavy equipment
- › Reliable object detection—whether moving or stationary—in both the detection and hazard zones of the barrier
- › Secure discrimination between vehicles and pedestrians for barrier operation
- › Easy configuration and adjustment to barrier driveways and their detection areas via the mobile app
- › Reliable and resistant in all environments and conditions



| Technical Data          | RADS01                                                     |
|-------------------------|------------------------------------------------------------|
| Housing                 | Polycarbonate with die-cast aluminum                       |
| Dimensions (W × H × D)  | 2.5 x 3.7 x 0.85 inches                                    |
| Weight                  | 1.5 lb                                                     |
| Connection              | 8-pin cable, 0.25 mm <sup>2</sup> , 6.2 ft long            |
| Protection Rating       | IP65                                                       |
| Supply Voltage          | 9 - 30 V DC                                                |
| Mounting                | 4 × M5 fastening screws                                    |
| Mounting Height         | 12 - 35 inches; EN 12453 (level D): max. 27.5 inches       |
| Power Consumption       | max. 1.8 W                                                 |
| Operating Temperature   | -22° F to 131° F                                           |
| Frequency Range         | 60 - 64 GHz                                                |
| Technology              | Millimeter-wave radar, FMCW                                |
| Signal Outputs          | 3 semiconductor relays (galvanically isolated, common COM) |
| Switching Voltage       | max. 30 V AC/DC                                            |
| Switching Current       | max. 100 mA                                                |
| Status Indicators       | 5 LEDs: yellow / red / yellow / blue / green               |
| Communication Interface | Bluetooth BLE 5.0                                          |
| Detection Range         | max. 26 x 26 ft<br>max 19.65 ft at EN 12453 level D        |
| Response Time           | Object detection without limiting filters: 200 ms          |

| Code    | Description                          |
|---------|--------------------------------------|
| RADS01  | Radar sensor by Feig Electronic GmbH |
| RADG01  | Mounting bracket                     |
| RADMK01 | 30° mounting wedge                   |