



# TRAFFIC DETECTOR TDD1-2MW

DOPPLER-RADAR TRAFFIC DETECTOR WITH 30 M / 75 M RANGE

SWARCO TRAFFIC SYSTEMS GmbH is a member of the internationally active SWARCO group, the one-stop shop for road markings, signage, signalisation and traffic management – your reliable partner for traffic solutions.

The traffic detectors of the TDD1-2MW series use Doppler radar technology for detecting vehicles. They are designed for detecting objects moving in or through the field of view.

## TYPICAL APPLICATIONS:

The detectors of the TDD1-2MW series have been developed for a range of applications that require robust and reliable detection:

- Green-phase request or extension at traffic lights, with the possibility to discriminate by vehicle driving direction
- Speed-dependent detection of vehicles
- Gate sensor: As detector for auto-operation of gates

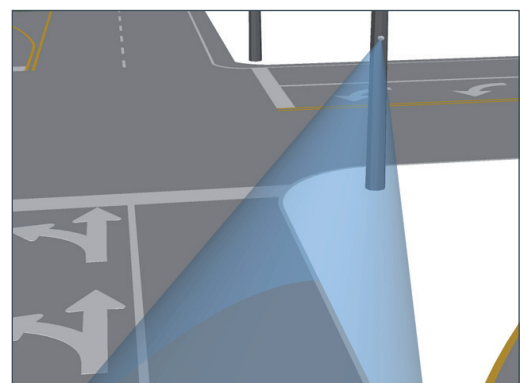
## WORKING PRINCIPLE:

The TDD1-2MW detectors detect moving objects by means of the frequency shift of the reflected microwave vs. the transmitted waves. Several application-dependent features can be configured easily and effortlessly using the IR remote control (extra accessory):

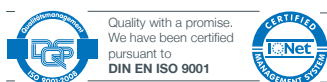
- Direction-discrimination (approaching, receding, both)
- Detection range (depending on model)
- Minimum speed threshold (4 km/h, 8 km/h)
- Auto-timer output activation (off, 90 s, 150 s)
- Feedback LED on front of detector (on, off)

## MOUNTING:

The recommended mounting location is on a pole at the side of the road, approximately 1 to 5 m above ground.



Field of view



## TRAFFIC DETECTOR TDD1-2MW

### HIGH QUALITY PRODUCT WITH MULTIPLE FEATURES:

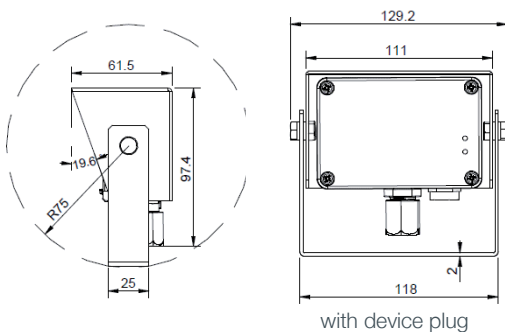
- Easy integration: Using SPDT relay output
- Robust design: Poly-carbon enclosure with weather protection hood made of stainless steel V4A
- Large mounting range: Mounting height 1 m to 5 m
- Easy Installation: Mounting bracket with three holes for easy mounting on poles or gantries
- Easy and effortless configuration: Using IR remote control (optionally available)
- Large operating temperature range: Peak performance in all environmental conditions

### TECHNICAL SPECIFICATIONS

Supply Voltage	(5 - 60) V DC / (12 - 43) V AC
Power Consumption	typ. 50 mA @ 12 V DC
Output / Switch*	Relay, SPDT / 300 V AC / 2 A / 60 W
Function indication	Tri-color LED on front of detector
Turn-on time	typ. 1 second after power on
Dimensions	See drawing
Case Material	Polycarbonate, dark gray
Weather protection	Stainless steel, V4A
Weight	approx. 700 g incl. bracket
Doppler Radar	K-Band 24.05 GHz - 24.25 GHz
Detection Range	TDD1-2MW30: 30 m nominal TDD1-2MW75: 75 m nominal
Low speed threshold	4 km/h / 8 km/h (selectable)
Operating Temperature	-40°C to +70°C
Humidity	95 % RH max.
Sealing	IP 64 splash proof

\* the maximum voltage on the output must not exceed the supply voltage!

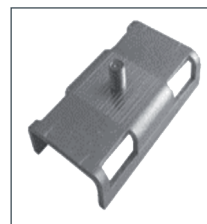
### DIMENSIONS



### ACCESSORIES



IR Remote control  
RD\_TDD1\_IRF



Pole mount adapter  
IR\_TDC\_PMA



Connection cable 15 m  
RD\_TDD1\_2Cable15m

### ACCESSORIES:

#### IR Remote Control:

To customize the settings of the detector, an infrared remote control is required. The remote control is an extra accessory and has to be ordered separately.

#### Mounting Accessories:

Pole mount adapter for mounting the detector on a round pole. The pole mount adapter is an extra accessory and has to be ordered separately.

#### Connection Cable:

An according connection cable is necessary for the electrical connection of the detector. This cable is an extra accessory and has to be ordered separately.

### MODEL OVERVIEW:

- RD\_TDD1-2MW30
- RD\_TDD1-2MW75



### SWARCO TRAFFIC SYSTEMS GMBH

SWARCO TRAFFIC SYSTEMS GMBH is one of the leading suppliers of intelligent traffic systems in Germany. Building on many decades of experience, it offers a wide range of innovative solutions for urban and interurban traffic management, including parking and traffic detection. Its nationwide service and maintenance network guarantees highest possible system availability and improved road safety. With economical, sustainable, and environmentally friendly technologies we help ensure smooth and safe traffic flows.

### SWARCO TRAFFIC SYSTEMS GMBH Sales Detection

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