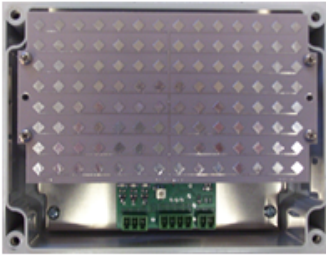


LOW SPEED SENSOR

AMG040-006 - Radar sensors



- Precise speed measurements
- High performing
- Well defined detection area
- Low speed detection range

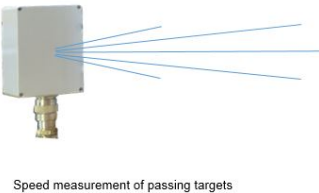
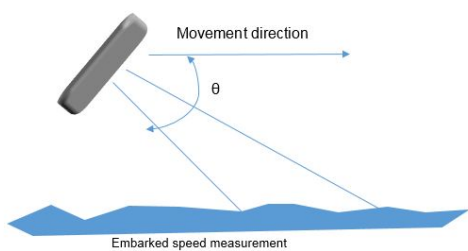
DESCRIPTION

The AMG040-006 is a compact and high performing microwave sensor operating in the 24GHz frequency range which is perfectly suited to speed monitoring. It uses the Doppler effect to detect the presence of moving targets, determine their motion direction and measure their speed. This reference is designed to detect speeds between 1.5 km/h and 100 km/h.

It can be installed next to the road to measure the speed of passing vehicles or on board to measure the displacement. Thanks to its advanced radar signal processing features it is capable of delivering speed measurements and identify the motion direction after just 30 cm of displacement when used on board.

This sensor is also suited to speed or vehicle activated displays, presence or movement detection (trigger video/photo monitoring systems) and contactless automation applications.

USE



The waves emitted by the radar are always perpendicular to the antenna. Hence the two recommended installation positions for the sensor, according to the use are :

- When detecting the speed of passing targets the angle between the beamwidth and target travel axis should be $< 5^\circ$.
- For onboard measurements the radar should be placed facing the ground at an angle of about 30° in reference to the horizontal.

APPLICATIONS

- Precise speed measuring
- Detection of movement direction
- Industrial applications (vehicle weighing, image synchronisation)
- Presence detection (master/slave sensor systems)

ADDITIONAL INFORMATION

FEATURES

- 1.5 km/h to 100 km/h speed range
- Narrow beam pattern (6° H x 9° V)
- ± 1 km/h accuracy
- 9V to 30V voltage
- 90mA current
- RS232, RS485 or UART data interface
- 3 TOR outputs
- Approaching and bi-directional detection
- Adjustable sensitivity
- With a board, 4-20mA current output available on request and an isolated power supply
- OEM or polycarbonate casing or aluminum case for railway application

DISCLAIMER: AMG Microwave reserves the right to make modifications to the design and characteristics of this product at any time and without prior notice.
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11, rue Louis de Broglie Z.I PEGASE 22300 LANNION | contact@amg-microwave.com | +33(0)2 96 37 79 54