

ParkGard® Magnetic Field Sensor PM-01

Description

Magnetic field sensor for the detection of the occupancy level of parking sites, for counting cars in driving lanes, and as detector for gate control systems in parking and underground garages as well as outdoor.



Magnetic field sensor in rail system

Application

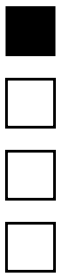
For detecting the status of the single parking spaces and for transmitting this information to a superior zone controller via the serial interface. Multi-colour LED display the status (free – occupied – reserved) directly at the parking space. For detecting vehicles in front of and behind entry and exit control barriers.



Magnetic field sensor in housing for surface mounting

Features

- Easy mounting in the rail system
- No terminal connection work (rail system)
- No influences by
 - Reflexions
 - Pollutions
 - Weather and variations in temperature
 - Lighting conditions and infrared sources
 - Vehicle form, type or colour
 - Pedestrians
- Long life expectancy
- Maintenance-free
- One-man commissioning possible due to configuration with standard parameters
- Reservation status display (red/green/blue) with dimmer function
- Option: Counting mode for driving lanes
- Option: Detector for control gates
- Option: Housing for wall mounting (IP 56)
- Option: Housing for floor mounting (IP 66)



Specifications

| | |
|-----------------------------------|---|
| Electrical | |
| Power supply | 22 to 32 VDC |
| Power consumption | 50mA at 24VDC |
| Sensor Data | |
| Sensor | 2-axial magnetic field sensor |
| Measuring range | ± 100 µT |
| Sensitivity | 30 mV / µT |
| Communication | |
| Serial interface | RS 485 |
| Protocol | MODBUS |
| Speed | 19200 Baud |
| Visualization | |
| Status LED green | Parking space free |
| Status LED red | Parking space occupied |
| Status LED blue | Reserved (e.g. women's or handicapped people's parking space) |
| Operating Environment | |
| Humidity range | 15 – 95 % RH non-condensing |
| Working temperature | -20° C to + 55° C |
| Storage Environment | |
| Humidity range | 15 – 95 % RH non-condensing |
| Temperature | -20° C to + 55° C |
| Duration of storage | Max. 48 months |
| Physical Characteristics | |
| Standard housing (rail mounting) | |
| Colour | White / black / silver |
| Protection class | |
| Weight | 65g |
| Mounting | Rail mounting |
| Connection | Plug-in system |
| Dimensions | (HxWxD) 95 x 40 x 67mm |
| Option: Housing for wall mounting | |
| Colour | Grey |
| Protection | IP 56 |
| Weight | Ca. 0,5kg |
| Wire connection | Spring type terminal min. 0,5, max. 2,5 mm ² |
| Dimensions | (HxWxD) 128 x 88 x 58mm without screwing |
| Cable entry | 2 x M 25 |
| Guidelines | EMC - Directive 89/336/EEC; CE Low Voltage Directive 73/23/EEC |
| Warranty | 2 years |

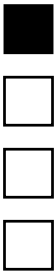


Ordering Information

PM-01-1-XXXX

Options
 1XXX Status LED
 X1XX Detector function
 X2XX Counting function
 X3XX Gates function

Housings
 1 Rail mounting (standard)
 2 Wall mounting (surface)
 3 Laying in the ground/floor



Example: Magnetic field sensor for rail mounting and detector function.

Ordering number: **PM-01-1-0100**