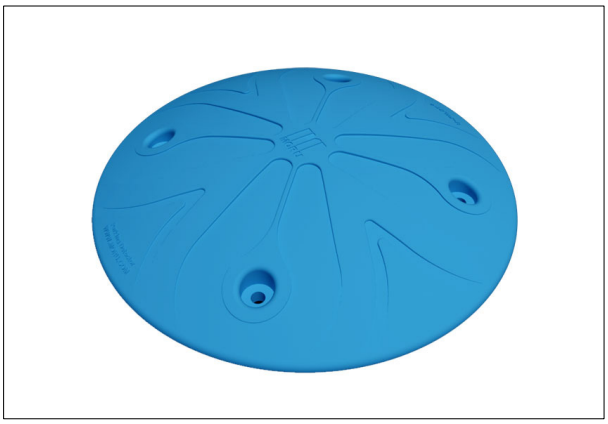
ML-D211-433
ML-D211-447

ParkDisk® Series

All-in-One type Wireless Inductive Loop Detector for PIS[1] and PGS[2] Application
MP-ILD(Micro Power Inductive Loop Detect) technology based parking-lot detector



FEATURES

General Features

- Micro-power Inductive Loop Vehicle Detect (MP-ILD®) technology based
- Well proven traditional ILD detect principle
- Works with battery power
- Heavy duty enclosure for indoor and outdoor parking information system (PIS) application
- ISM band Wireless communication
- Long battery life, battery replaceable
- Wide operating temperature and Waterproofed
- Easy to install with anker-bolt
- Easy to repair

Special Features

- Single channel all-in-one type vehicle detector (Loop coil embedded)
- Dual purpose for parking lot application (Space detector, Passing vehicle detector)
- Automatic environmental factor compensation algorithm
- Wireless data transmission, wireless parameter setting
- Loop coil failure monitoring, Battery monitoring
- Wireless configuration
- Water proof for outdoor and indoor application

1) PIS : Parking Information System

2) PGS : Parking Guidance System

SPECIFICATIONS

Environmental

- Temperature : -34°C to +74°C (Operating)
  : -40°C to +80°C (Storage)

Detect Technology

- Micro-power Inductive Loop Vehicle Detect (MP-ILD®) technology by MORU Industrial Systems

Detect Algorithm Feature

- Parking Information System (PIS) purpose optimized for indoor and outdoor application
- Active environmental factor compensation algorithm

System Interface

- ISM band wireless data connection

Power Source (battery life)

- 3.6V Lithium Cell 1-st order battery
  : A-Cell for parking space detector (5 years typ.)
  : D-Cell for passing vehicle detector for parking lot application (3 years typ.)
  (Battery life can be changed with RF environments, vehicle counts and detect duty configuration)

Physical Dimensions

- 455mm(diameter) x 60mm(height)

Weight

- 3Kg (Typical, without battery)

Material of enclosure

- PP+G20%

RF Channels

- 20 channels (433Mhz) or 11Channels (447Mhz)

RF interconnect distance

- 50M typical (with MXM-B302)
  (depends on RF power and environments)

RF BAND Option

- ML-D211-433 (for Region 1 [3])
  : 433.05 ~ 434.79 Mhz band
- ML-D211-447 (for Korea)
  : 447.8625 ~ 447.9875 Mhz narrow band

Operating Mode

- Presence mode operation

Configuration

Wireless Configuration Parameters

	NAME	DESCRIPTION
1	RF Transmit Power	upto +10dBm (16step)
2	Detect Interval	100 ~ 9,900(ms)
3	RF Channel	within 20 channels
4	Detector ID	1~60
5	R-NODE ID	2B
6	Group ID	2B
7	Detect Sensitivity	(low)1-9(high)

Applications

Typical Applications

- Various Parking-lot detector applications
  : Parking space detector for PIS
  : Passing vehicle detector for parking-lot
  : Barrier security detector for parking-lot
  : Ticket dispense detector for parking-lot
  : Warning Light drive detector for parking-lot
  : Light dimming control detector for parking-lot of green building
  : Smart parking meter application

* Specifications and price are subject to change without prior notice for improvement of performance.

* This document replaces old M113001 ver.

3) Region 1 : Europe, Greenland, Africa, the Middle East west of the Persian Gulf and including Iraq, the former Soviet Union and Mongolia.

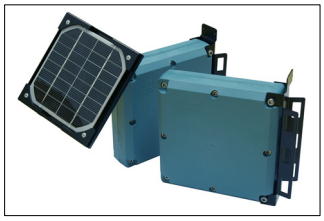
ORDER INFORMATION

#	MODEL NAME	SPECIFICATION	Availability
1	ML-D211-433-A (for EU)	ParkDisk with A-Cell battery for 433Mhz (Region-1 433Mhz ISM Band)	now
2	ML-D211-433-D (for EU)	ParkDisk with D-Cell battery for 433Mhz (Region-1 433Mhz ISM Band)	now
3	ML-D211-447-A (for Korea)	ParkDisk with A-Cell battery for 447Mhz (Korean 447Mhz Narrow Band)	now
4	ML-D211-447-D (for Korea)	ParkDisk with D-Cell battery for 447Mhz (Korean 447Mhz Narrow Band)	now
5	Rubber base	Rubber base for install	now
6	Anker Bolt	Anker bolt for install	now

Related Products

#	MODEL NAME	SPECIFICATION	Availability
1	MXM-B302-433 (for EU)	ISM Band Wireless Receiver	now
2	MXM-B302-447 (for Korea)	ISM Band Wireless Receiver	now
1	MXM-B302-ES-433 (Outdoor-solar option, with 1/4λ antenna, EU)	ISM Band Wireless Receiver	now
2	MXM-B302-ES-447 (Outdoor-solar option, with 1/4λ antenna, Korea)	ISM Band Wireless Receiver	now

Related Pictures



[MXM-B302-ES]

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