LoRaSCAN

LoRaSCAN-FM

2D Wireless Barcode Scanner
Wireless barcode scanner for Automated Industrial applications

Key Features

- Scans many popular barcode types
- Extremely long range wireless transmission of 3km+ indoors
- 50-750mm scanning range
- 24V Powered | 24V Dry contact trigger | 24V Pulse Output
- Surface mounting brackets included, pole mount optional
- Industrial rugged design for factory environments

24V

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Specification

Scanning

- Resolution: 640*480 3mil/0.1mm (PCS90%, CODE 39)
- Scanner type: CMOS
- Illumination: Red Light LED 525±10nm, 5600K LED (lighting)
- Print contrast ratio: 15%
- Scan angle: Roll ±360°, Pitch ±60°, Skew ±55°
- Scanning distance: 50mm ~ 750mm
- Manual, Autosense & Continuous scan modes

Wireless

- Very long range wireless transmission
- 8km outdoor, 3km indoor (line of sight)
- Internal antenna
- 868MHz – 925MHz for worldwide usage
- Robust & secure industrial protocol
- All data encrypted as standard

Electrical

- 24VDC powered (power supply not included)
- 24V dry contact to trigger scanning
- 24V pulse output following successful scan
- Energy saving 2 minute auto shutdown
- Includes Phoenix contact connector MC 1,5/ 4-STF-3,81
- Blue LED power indicator

Physical

- IP62 rated
- 120mm x 120mm x 70mm
- -20 to +50 degrees C operating temperature range

Regulatory

- CE
- FCC
- RoHS

Ordering

- LORASCAN-FM
  Wireless scanner, surface mount accessories

- LORASCAN-FM-STARTER
  Wireless scanner, connector & USB wireless receiver dongle

- LORASCAN-USB
  USB wireless receiver dongle

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Installation Manual

Safety

DANGER
Only to be installed by qualified & competent electrical engineer
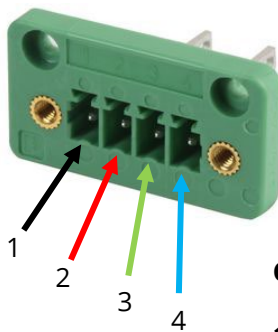
CAUTION
Risk of Electric shock

Important safety information is contained in this document.
Familiarise yourself with this information before attempting installation or other procedures. This product can only be installed by persons trained and competent to permanently install mains powered electrical equipment.
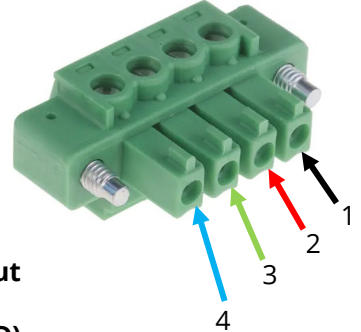
Please read this installation guide fully before beginning and if you have any questions contact us: Low Power Radio Solutions Ltd, Two Rivers Ind. Estate, Station Lane, Witney, OX28 4BH, UK. Tel: +44 1993 709418.
Email: sales@lprs.co.uk

Connectors & Wiring

Enclosure Connector:
DFK-MC 1,5/ 4-GF-3,81

Mating Connector:
DFK-MC 1,5/ 4-STF-3,81

1
2
3
4

1
2
3
4

Connector Pinout

1. **Ground (GND)**
2. **24 VDC (PWR)**
3. **24V Read Trigger (TRIG_24V)**
4. **Pulse output (PULSE_OUT)**

* DO NOT DEVIATE FROM THE ABOVE WIRING DIAGRAM *

Instructions

a) When wiring the mating connector shown above, ensure your power supply is switched off.

b) Please make sure the wiring diagram is followed without deviation. Not following this diagram can lead to serious injury and/or damage to the device.

c) Pins 3 & 4 are 24V dry contact switches. Pin 3 is for instructing the device to take a barcode reading, where idle is LOW (0V) and operate is HIGH (24V). Pin 4 is an output that will change state LOW (0V) to HIGH (24V) when a successful scan / reading has occurred.

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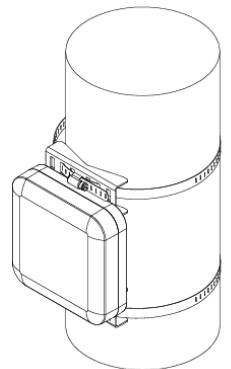Email: sales@lprs.co.uk

Mounting

This device has 3 options for mounting as shown below. The first 2 are supplied with the device with option 3 a purchasable accessory.

Wall mount with flanges

Desktop / table mount

Pole mount kit (not included)

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