1 IDESCO

Idesco EPC IA

Passive long-distance RFID reader

This innovative passive long range UHF reader makes it possible to create cost-effective and user-friendly identification applications for vehicle identication (AVI), logistic systems and access control. The Idesco EPC IA reader is a passive long-distance RFID reader operating according to the European UHF (ultra high frequency) regulations.

By default, the EPC IA posseses a single internal antenna. Optionally, the EPC IA may also deploy an external plug-n-play antenna via its SMA connector. For starters, this capability enables expansion of the EPC IA read range. However, since RS232 messages sent to the system also identify the antenna capturing a tag's data, the EPC IA also boasts an ability to determine the direction of a moving tag.

Naturally, the Idesco EPC IA reader supports anticollision enabling simultaneous multiple tag detection. This is possible because the unit stores reading events to a tag buffer before forwarding them serially to the system for processing. This tag buffer boasts a capacity of up to 200 tags: 100 each for two active antennas or 200 for a single antenna.

Idesco's EPC IA reader is conveniently configurable to either RS232 or Wiegand connections. Additionally, the reader's wide operational temperature range and robust protection class allow you to confidently deploy it in either indoor or outdoor settings. Innovatively, EPC IA can also be readily integrated in a system deploying Idesco's Access 7C Mifare reader. This is possible since the RS232 output format of both readers is identical and they both can query the same type of tag (Idesco EPC Mifare Card), reporting to the system the same MIFARE UID. Idesco's EPC IA reader has one FET output that grounds for 5 seconds after every successful reading event.

The Ideso EPC IA reader is remarkably easy to deploy. Conveniently, the reader initiates tag polling/reading automatically upon power-up without requiring any initiating commands.

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Specifications

Operating Frequency 865-868 MHz

Voltage 12..30 VDC (nominal 24 VDC)

Current Consumption 0,5 A @ 24 V

RFID Technology EPC C1G2, ISO 18000-6C
Housing Dimensions 305 x 305 x 70 mm (hxwxd)
Housing Material Aluminium/plastic

Installation Method Adaptable mounting kit
Colour White
Protection Class IP67

Antenna Internal circularly polarised and SMA

connector for external antenna

Interfaces RS-232

Wiegand

I/O'sFET OutputLEDsTricolourCable5 m pigtail

Buzzer Yes

Storage Range -40 °C to +85 °C
Operational Range -35 °C to +80 °C
Frequency Allocation ETSI 302 208
EMC ETSI EN 301 489-1,

ETSI EN 301 489-03, v. 1.4.1

Read Range Idesco EPC Metal Tag ABS ≤ 10 m

Idesco EPC Metal Tag HD \leq 15 m (w/o metal \leq 5 m)

Idesco EPC Windshield Label ≤ 4,5 m Idesco EPC Mifare Card ≤ 4 m

ldesco EPC Card ≤ 4 m ldesco EPC Sail Tag ≤ 3 m