

# Idesco EPC

## Passive long-distance RFID reader



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

By default, the reader possesses only an internal antenna. Optionally, the reader may have an external antenna installed or both an external and internal antenna. When configured with both antennas, they both may transmit and receive simultaneously or one may transmit while the other receives. Idesco's EPC reader is available with several interfaces for easy integration and it offers a variety of security options. It can optionally support anti-collision as well as the full EPC C1G2 standard when manually configured by the user.

For enhanced security the Idesco EPC only supports read commands when operating autonomously.

The wide operation temperature range of the EPC reader and its robust protection class enable you to confidently deploy it in either indoor or outdoor settings.

The Idesco EPC reader is easy to deploy. The reader initiates tag polling/reading automatically upon power-up. Initiating commands are not required in autonomous mode.

### Specifications

Operating Frequency	865-868 MHz
Voltage	12-30 V (nominal 24 V)
Current Consumption	0,5 A @ 24 V
RFID Technology	EPC C1G2, ISO 18000-6C
Housing Dimensions	305 x 305 x 70 mm (h x w x d)
Housing Material	Aluminium/plastic
Installation Method	Adaptable mounting kit
Colour	White
Protection Class	IP67
Antenna	Internal, Circularly Polarised
Interfaces	Ethernet Idesco RS-485 (4 wires) RS-232 Wiegand 6LoWPAN (IEEE 802.15.4)
I/O's	None
LEDs	Tricolour
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 ≤ 15 m (w/o metal ≤ 5 m) Idesco EPC Windshield Label ≤ 4,5 m Idesco EPC Mifare Card ≤ 4 m Idesco EPC Card ≤ 4 m Idesco EPC Sail Tag ≤ 3 m

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