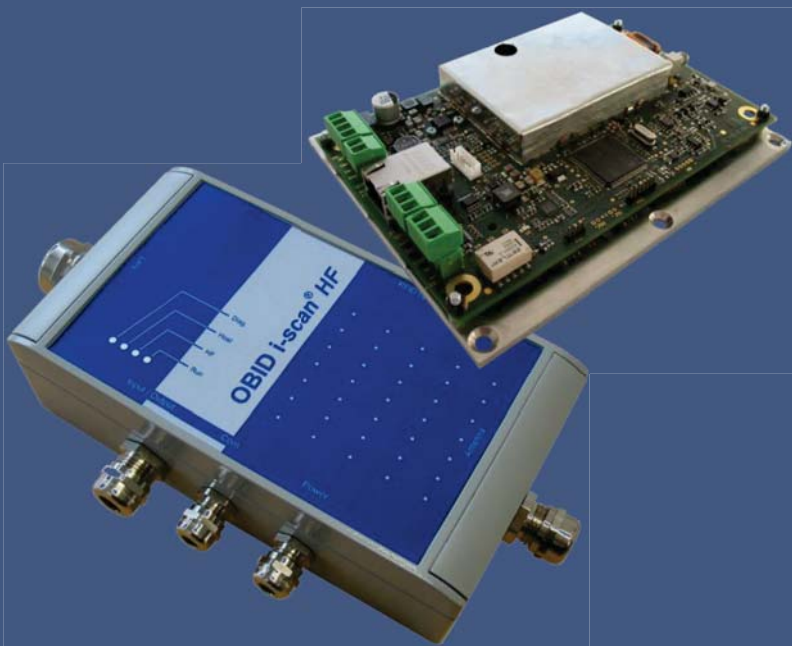# HF Long Range Reader
ID ISC.LR(M)1002-E

FEATURES

→ Powerful reader for a wide range of applications

→ Ideal for retail, industry and logistics

→ Optimal cost-performance ratio

→ Adjustable output power

→ Available as module or housing version

→ Different interfaces: Ethernet, USB, RS232

→ 1 Output / 1 Input

→ 4 different reader modes

→ International certifications

FEIG ELECTRONIC

ID ISC.LR(M)1002-E

DESCRIPTION

The HF Long Range Reader ID ISC.LR(M)1002-E identifies transponders according to ISO 15693 and HF Gen 2 with an operating frequeny of 13,56 MHz. The combination of powerful device and low price leads to an optimal cost-performance ratio.

The ID ISC.LR(M)1002-E is suitable to be used in fields of applications like retail, industry and logistics with a small and medium number of tags inside the reading area. The reader is designed for applications where the output power of mid range reader is insufficient. Examples are conveyor belts, sorting systems and production lines.

The reader ID ISC.LR(M)1002-E ist licensed according to ETSI, FCC and IC and is characterized by the following features:

- 4 different reader modes for various applications
- Receiver sensitivity provides an enlarged and at the same time homogeneous tag detection range
- Transmitter architecture with resistance against incorrect cable length and disturbed power supply
- Integrated diagnostic possibilities e.g. for detection of antenna mismatching
- Various configuration options for software and hardware
- Supply e.g. of connected indicators directly over the antenna cable

TECHNICAL DATA

Description	ID ISC.LRM1002-E	ID ISC.LR1002-E
Dimensions (W x H x D)	160 x 120 x 35 mm³	255 x 135 x 65 mm³
Housing	-	Aluminium
Colour	-	Grey
Weight	0,35 kg	1,1 kg
Protection	-	IP 54

Temperature range
  Operation   –25 °C up to 55 °C
  Storage   –25 °C up to 85 °C
Relative humidity   5…80 % (non-condensing)

Power supply   24 V DC ± 15 %
Power consumption   max. 16 W
Operating frequency   13,56 MHz
Transmitting power   1 W – 5 W (adjustable)
Antenna connector   1 x SMA connector (50 Ω)
Supply voltage at   6,5 V DC (max. 20 mA)
antenna connector
Output   1 Relay (24 V, 1 A)
Input   1 Optocoupler (24 V DC)
Interfaces   Ethernet (TCP/IP), USB, RS232
Indicators, optical   4 LEDs for diagnosis
Supported transponder   ISO 18000-3 MODE 1* & MODE 3
                        (ISO 15693 & HF Gen 2)
Reader modes   ISO Host Mode, Scan Mode,
                        Buffered Read Mode,
                        Notification Mode
Others   Anticollision function
                        RSSI

* e.g. EM HF ISO Chips, Fujitsu HF ISO Chips, IDS Sensor Chips, Infineon my-d, KSW Sensor Chips, NXP I-Code, STM ISO Chips, TI Tag-it

STANDARD CONFORMITY

Radio license
  Europe   EN 300 330
  USA   FCC 47 CFR Part 15
  Canada   IC RSS-GEN, RSS-210
EMC   EN 301 489
Safety
  Electrical safety   EN 60950
  Human Exposure   EN 50364
Vibration   EN 60068-2-6
                        10…150 Hz: 0,075 mm / 1 g
Shock resistance   EN 60068-2-27
                        Acceleration: 30 g