

ID ISC.LR(M)1002-E

## HF LONG RANGE READER

- 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



The HF Long Range Reader ID ISC.LR(M)1002-E identifies transponders according to ISO 15693 and HF Gen 2 with an operating frequency 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

# POWERFUL HF LONG RANGE READER (13.56 MHz)

for applications in logistics, industry and retail

## Technical data

### Dimensions (w x h x d)

ID ISC.LRM1002-E	160 mm x 120 mm x 35 mm
ID ISC.LR1002-E	255 mm x 135 mm x 65 mm

### Weight

ID ISC.LRM1002-E	approx. 350 g
ID ISC.LR1002-E	approx. 1,100 g

### Housing

ID ISC.LR1002-E	Aluminium
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### Color

ID ISC.LR1002-E	grey
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### Protection class

ID ISC.LR1002-E	IP54
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<b>Power supply</b>	24 V DC $\pm$ 15 %
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<b>Power consumption</b>	max. 16 VA
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<b>Operating frequency</b>	13.56 MHz
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<b>Transmitting power</b>	1 W – 5 W (adjustable)
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<b>Antenna connector</b>	1x SMA connector (50 Ohm)
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<b>Output</b>	1 Relay (24 V, 1 A)
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<b>Input</b>	1 Optocoupler (24 V DC)
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<b>Interfaces</b>	Ethernet (TCP/IP), USB, RS232
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<b>Reader modes</b>	ISO Host Mode, Scan Mode, Buffered Read Mode, Notification Mode
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<b>Supported transponders</b>	ISO 18000-3 MODE 1* + MODE 3 (ISO 15693 & HF Gen2)
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<b>Indicators, optical</b>	4 LEDs for diagnosis
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<b>Others</b>	Anticollision function RSSI
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### Temperature range

Operation	-25°C up to +55°C
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Storage	-25°C up to +85°C
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<b>Relative humidity</b>	5% up to 80% (non-condensing)
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\* 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
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USA	FCC 47 CFR Part 15
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Canada	IC RSS-6EN, RSS-210
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EMC	EN 301 489
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### Safety

Electrical safety	EN 60950
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Human exposure	EN 50364
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<b>Vibration</b>	EN 60068-2-6 10 up to 150 Hz: 0.075 mm / 1 g
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<b>Shock resistance</b>	EN 60068-2-27 Acceleration: 30 g
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