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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

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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
Color	
ID ISC.LR1002-E	grey
Protection class	
ID ISC.LR1002-E	IP54
Power supply	24 V DC ±15 %
Power consumption	max. 16 VA
Operating frequency	13.56 MHz
Transmitting power	1 W – 5 W (adjustable)
Antenna connector	1x SMA connector (50 Ohm)
Output	1 Relay (24 V, 1 A)
Input	1 Optocoupler (24 V DC)
Interfaces	Ethernet (TCP/IP), USB, RS232
Reader modes	ISO Host Mode, Scan Mode, Buffered Read Mode, Notification Mode
Supported transponders	ISO 18000-3 MODE 1* + MODE 3 (ISO 15693 & HF Gen2)
Indicators, optical	4 LEDs for diagnosis
Others	Anticollision function RSSI
Temperature range	
Operation	–25 °C up to +55 °C
Storage	–25 °C up to +85 °C
Relative humidity	5 % up to 80 % (non-condensing)

* 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

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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 up to 150 Hz: 0.075 mm / 1 g
Shock resistance	EN 60068-2-27	Acceleration: 30 g

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