IDENTIFICATION

RFID Card Reader with external antenna for integration into machines and terminals ID CPR47-A (13.56 MHz)

Figure shows external antenna ID CPR.ANT8690

FEATURES

- RFID Card Reader with flat, external antenna for direct mounting on metal
- Designed for integration into ATM, Ticket-, Parking and Vending machines as well as charging stations
- IP65 protected front, IK10 vandalism protection
- EMVCo Level 1 certification
- Interfaces: USB, RS232 & RS232LVTTL
- 6 LEDs & Buzzer

FEIG ELECTRONIC

SHORT DESCRIPTION

Order description:

ID CPR47-A	RFID Card Reader
ID CPR.ANT8690	External antenna for ID CPR47-x

ID CPR47-A is a RFID Card Reader and is designed for connection to the external antenna ID CPR.ANT8690, which can be mounted directly on the metal surface of a machine. Equipped with high protection class (IP65) and high impact resistance level (IK10), the antenna provides maximum protection against environmental influences and vandalism.

The modular concept allows flexible installation and is ideal for retrofitting into existing machines and terminals.

Due to an automatic power management and a very low standby power consumption, the system is optimally suited for solar- and battery-powered machines and terminals.

Certification according to EMV Level 1 allows the integration of ID CPR47-A in payment applications.
Data transfer between reader and host is AES256 encrypted.

Scope of delivery:
- Card Reader ID CPR47-A
- Mounting instruction

TECHNICAL DATA ID CPR47-A

Dimensions (W x H x D)	85 mm x 105 mm x 28 mm
Housing	Plastic
Weight	approx. 150 g
Protection class	IP 30
Temperature range	–25 °C up to 70 °C (operation) –40 °C up to 80 °C (storage)
Relative humidity	95 % (non condensing)
Supply voltage	8 V – 42 V DC
Power consumption	
Operation	500 mA maximal
Standby Mode	approx. 100 µA (5 V input voltage)
Operating frequency	13.56 MHz
RFID interface	ISO/IEC 14443-A / -B
Antenna	Connection for ID CPR.ANT8690
Power Management	Automatically, wake-up by card, wake-up by host
Host interfaces	USB On-The-Go, RS232, RS232-LVTTL
MTBF	150.000 hours
Operation mode	Polling Mode (OBID® ISO-Host)
I/O interfaces	1x input (digital, only alarm clock function) 1x output (digital, TTL level)
Supported transponders	ISO 14443-A[1] ISO 14443-B[2] NFC[3]

[1] e.g. mifare® classic (mini, 1k, 4k), mifare® UltraLight, mifare® DESfire, Smart MX, my-d® proximity, SLE44R35S, SLE55R…, etc., Jewel™
[2] e.g. SLE66CL, ST19XR34, RF360 etc.
[3] NFC Type 1, 2 and 4 in Read/Write and NFC Card-Emulation-Mode
* Read ranges depend on transponder sizes; here made statements relate on inlet size of 76 x 45 mm

STANDARD CONFORMITY

Radio approval	
Europe	EN 300 330
EMC	EN 301 489
Security	
Low voltage	EN 60950
Human Exposure	EN 50364
Environment	WEEE – 2002/96/EC RoHS – 2002/95/EC
Payment	EMV Level 1 contactless

OEM

SDK for Microsoft Windows® and Linux.
(C++, Java, .NET)

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TECHNICAL DATA ID CPR.ANT8690

Dimensions (B x H)	86 mm x 90 mm
Housing	Plastic
Weight	approx. 150 g
Protection class	IP 65 (font)
Impact resistance level	IK10
Temperature range	–25 °C up to 70 °C (operation) –40 °C up to 80 °C (storage)
Relative humidity	95 % (non condensing)
Operating frequency	13.56 MHz
RFID interface	ISO/IEC 14443-A / -B
MTBF	500.000 hours
Optical indicators	4 green LEDs (EMV-Mode) or green / yellow / red LED
Buzzer	integrated

SHORT DESCRIPTION

Order description:

ID CPR.ANT8690 External antenna for ID CPR47-x

The external RFID antenna ID CPR.ANT8690 is provided for operation with the RFID Card Reader ID CPR47-A.

The robust and very flat antenna is designed for direct mounting on front panels of metal. It is suitable for retrofitting of ATM, ticket-, parking- and vending machines as well as charging stations on site, optimally.
The antennas dimensions are compatible with the standard EVA cutting for vending machines.

Connected with the RFID Card Reader ID CPR47-A it is certified according to EMVCo Level 1 contactless.
The antenna offers high protection against environmental influences and vandalism and is approved for outdoor use.

Scope of delivery:
- Antenna ID CPR.ANT8690
- Mounting instruction

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