

INSTALLATION

ID MRMU400 Module

UHF-Mid Range Reader as Module
with two antenna outputs



Note

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Safety Instructions

- ▶ The device may only be used for the intended purpose designed by for the manufacturer.
- ▶ The operation manual should be conveniently kept available at all times for each user.
- ▶ Unauthorized changes and the use of spare parts and additional devices which have not been sold or recommended by the manufacturer may cause fire, electric shocks or injuries. Such unauthorized measures shall exclude any liability by the manufacturer.
- ▶ The liability-prescriptions of the manufacturer in the issue valid at the time of purchase are valid for the device. The manufacturer shall not be held legally responsible for inaccuracies, errors, or omissions in the manual or automatically set parameters for a device or for an incorrect application of a device.
- ▶ Repairs may only be executed by the manufacturer.
- ▶ Installation, operation, and maintenance procedures have to be carried out by professional and qualified personnel.
- ▶ Use of the device and its installation must be in accordance with national legal requirements and local electrical codes.
- ▶ The intended operation mode is fixed use.
- ▶ When working on devices the valid safety regulations must be observed.
- ▶ Before touching the device, the power supply must always be interrupted. Make sure that the device is without voltage by measuring. The fading of an operation control (LED) is no indicator for an interrupted power supply or the device being out of voltage!

NOTE:**Wearers of pacemakers**

Although this device does not exceed the permissible limits for electromagnetic fields, you should keep a minimum distance of 25 cm between the device and your pacemaker and not stay in the immediate vicinity of the device or the antenna for long periods of time.

History of documentation

Revision	Data	Description	Page/Chapter
0e	February 2025	Initial Version	

Supported Documents

No.	Documents	Document No.
[1]	More information https://www.feig.de/en/login/	
[2]	Manual	H50223-0e-ID-B

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1 Fields of application

The reader is designed for use in applications with low transponder density. The reader module has 2 antenna outputs with MCX sockets (ANT1 - ANT2) and is suitable for communication with near-field and far-field transponders. Depending on the external antenna and transponder used, reading ranges of up to 4-5 m are possible.

1.1 Device versions

Feature	MRU400	MRU400X	MR M U400
Robust Housing	✓	✓	-
Output Power 1 W TX Power	✓	✓	✓
1x Integrated Antenna	✓	✓	-
1x ANT OUT	✓	✓	-
2x ANT OUT	-	-	✓
1x REL OUT	✓	✓	✓
1x Dig IN 1x Dig. OUT	✓	✓	✓
Circular connectors	-	✓	-
Cable glands	✓	-	-
Ethernet / LAN, RS485, USB	✓	✓	✓
PoE (Power over Ethernet)	✓	✓	✓
LINUX Application Controller	✓	✓	✓
Web-Interface	✓	✓	✓

Tab 1: Device versions

1.2 Scope of delivery



The scope of delivery consists exclusively of the ID MRMU400 reader module.

Fig 1: Scope of delivery

2 Cyber Security

2.1 Commissioning of the Device

IMPORTANT NOTICE

In order to comply with the requirements of the European Radio Equipment Directive (RED) 2014/53/EU article 3 (3), points (d), the following points must be taken into account for the product ID MRMU400:

- When using the network interface (Ethernet), it may be necessary to create at least one user to enable various functions such as changing the configuration. The user and the password **MUST** be set by the person who puts the device into operation on first use before it is logically connected to a network or by an authorized entity within a network where access is limited to authorized entities.
- When security and/or network assets (keys, certificates, ethernet configuration parameters) are transferred via network interface (Ethernet) TLS encryption must be used to secure the communication.

2.2 Cyber Security related Firmware Updates

IMPORTANT NOTICE

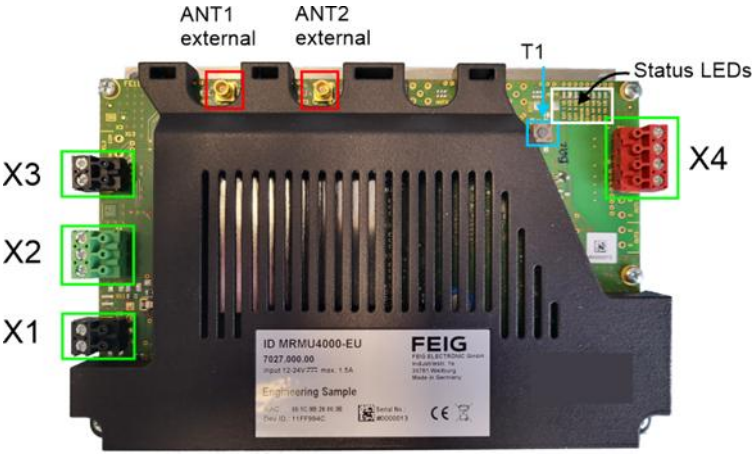
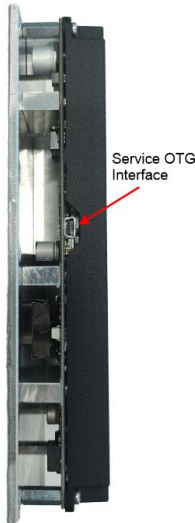
In order to comply with the requirements of the European Radio Equipment Directive (RED) 2014/53/EU article 3 (3), points (d), you are required to register in the FEIG download area under <https://www.feig.de/en/> and subscribe to notifications for cyber security-related firmware and software updates for the product ID MRMU400.

2.3 Firmware Downgrade

IMPORTANT NOTICE

A firmware downgrade to older major release versions is not possible in order to prevent old major versions with known cyber security vulnerabilities from being executed on the device.

3 Device description

 <i>Fig 2: Front view</i>	<table border="1"> <thead> <tr> <th>No.</th><th>Description</th></tr> </thead> <tbody> <tr> <td>ANT1</td><td>Antenna1 external</td></tr> <tr> <td>ANT2</td><td>Antenna2 external</td></tr> <tr> <td>X1</td><td>Power Supply</td></tr> <tr> <td>X2</td><td>RS485</td></tr> <tr> <td>X3</td><td>Relay Output</td></tr> <tr> <td>Fig 3</td><td>USB-OTG</td></tr> <tr> <td>X4</td><td>Digital I/O</td></tr> <tr> <td>Fig 2</td><td>Ethernet</td></tr> <tr> <td>T1</td><td>Power On Reset</td></tr> <tr> <td>Status LEDs</td><td>Display of the device status</td></tr> </tbody> </table>	No.	Description	ANT1	Antenna1 external	ANT2	Antenna2 external	X1	Power Supply	X2	RS485	X3	Relay Output	Fig 3	USB-OTG	X4	Digital I/O	Fig 2	Ethernet	T1	Power On Reset	Status LEDs	Display of the device status
No.	Description																						
ANT1	Antenna1 external																						
ANT2	Antenna2 external																						
X1	Power Supply																						
X2	RS485																						
X3	Relay Output																						
Fig 3	USB-OTG																						
X4	Digital I/O																						
Fig 2	Ethernet																						
T1	Power On Reset																						
Status LEDs	Display of the device status																						
 <i>Fig 3: Ethernet Interface</i>	 <i>Fig 4: Service OTG Interface</i>																						

4 Installation

4.1 Mounting options

The reader module is designed for installation in devices or housings.

4.2 Drilling template

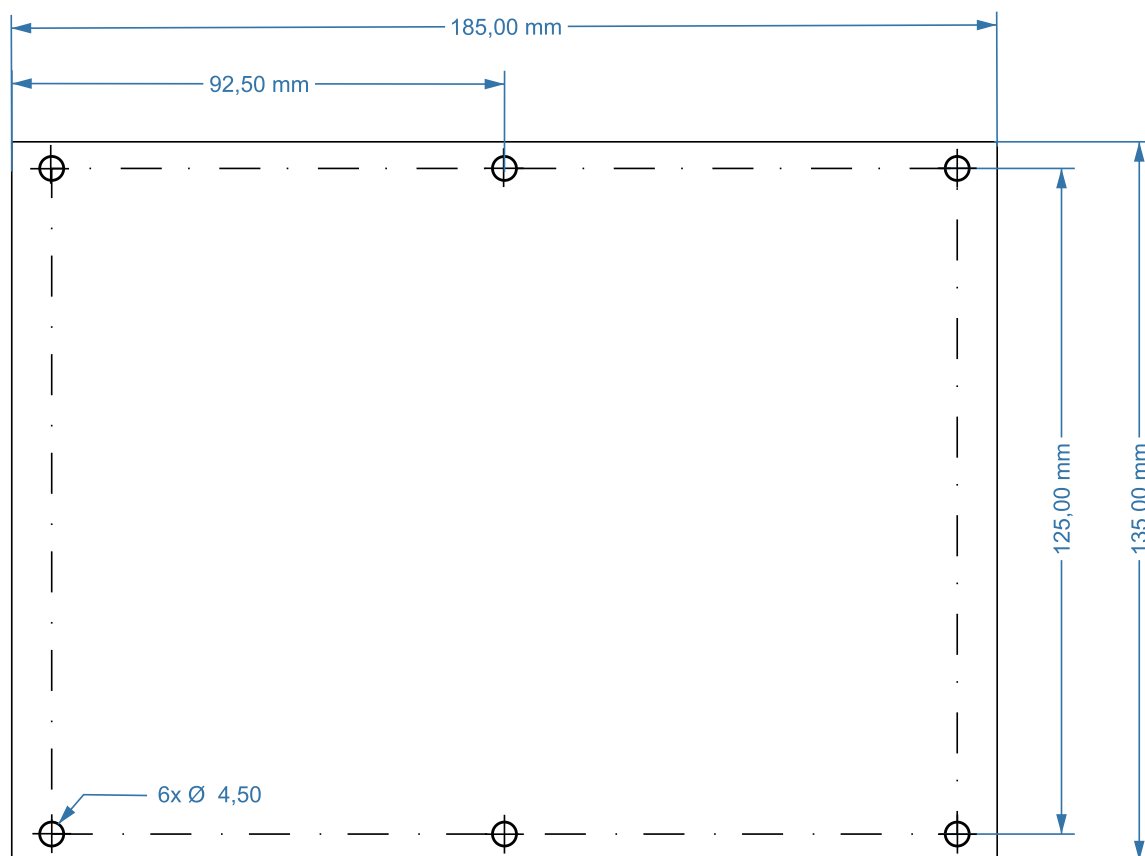


Fig 5: Dimension of the base plate [mm]

5 Electrical connections

5.1 Connections

The module variant ID MRMU400 has an RS485 interface (X2) and a USB-OTG service interface (On The Go). Two external antenna connections are available for transponder communication. Table 2 shows which connections can be used for the individual antennas and interfaces.

No.	Description
ANT1	Antenna output1
ANT2	Antenna output2
X1	Power Supply
X2	RS485
X3	Relay Output
USB	USB-OTG
X4	Digital I/Os
LAN	Ethernet

Tab 2: Connection overview

5.2 Antenna connections

Two antenna outputs (ANT1 and ANT2) are available.

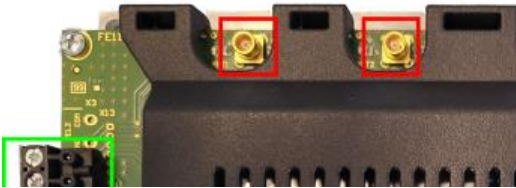
	• MCX Sockets "ANT1/2" Impedance at the input 50 Ω
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Fig 6: Antenna connections ANT1 u. ANT2

HINWEIS:

- Standing wave ratio VSWR of the antenna ≤ 1.3
- When connecting the antenna, the limit values of the national regulations regarding radio equipment must be observed (see Declaration of Conformity).

5.3 Terminal description

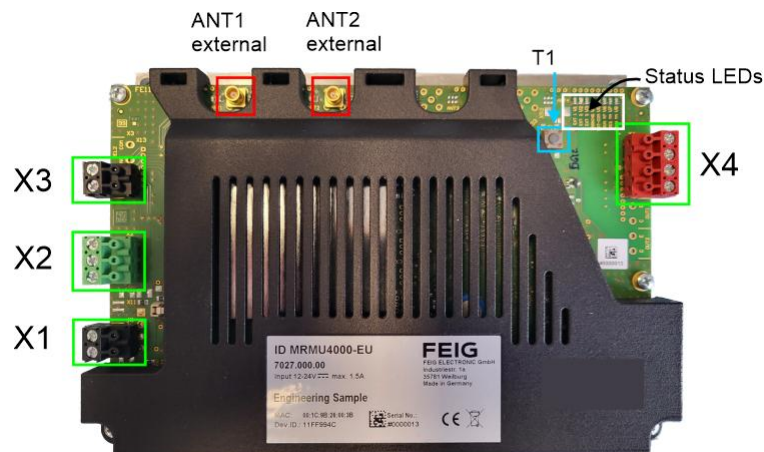


Fig 7: Terminals position

5.4 Power Supply

5.4.1 Supply voltage via an external power supply unit [X1]

The device may only be supplied by a power source in accordance with EN 62368-1 Chapter Q.1
Power sources of limited power or with a power supply unit certified in accordance with NEC Class 2/LPS.

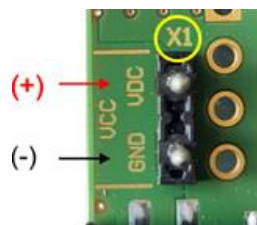


Fig 8: Pin assignment +/-

Connecting the supply voltage to the terminal X1

Connector	Description	
X1 (+)	VCC	(+) VCC (12-24V DC $\pm$ 10%)
X1 (-)	GND	(-) Masse

Tab 3: Pin assignment supply voltage

Cross-section of the cable	Test procedure
from 0.5 mm ² or larger	IEC 60332-1-2 und IEC 60332-1-3
less than 0.5 mm ²	IEC 60332-2-1 und IEC 60332-2-2
Supply voltage 12 V...24 V DC $\pm$ 10 %	

Tab 4: Test procedure for the external wiring of the power supply

HINWEIS:

- The reader may only be supplied by a power supply in accordance with EN 62368-1 Chapter Q.1 Limited Power Sources (LPS) or with a power supply unit certified to NEC Class 2/LPS.
- Each reader must always be supplied with power via its own external power supply unit.
- Reverse polarity can destroy the device.
- Simultaneous operation via an external power supply unit and PoE is not permitted.

5.4.2 Power supply via PoE (Power over Ethernet)

When using the PoE functions, the reader is powered via the Ethernet interface and a "Power over Ethernet" power supply unit in accordance with IEEE802.3at*, Class 4 (30/25 watts). The transmission parameters can be configured as required.

Cable cross-section (CAT5...7)	Max. Cable length für PoE
0,4 mm ²	~ 30 m
0,6 mm ²	~ 70 m

Tab 5: Maximum cable length depending on the cable cross-section

HINWEIS:

- Maximum cable length depending on the cable cross-section
- A "Power over Ethernet" power supply unit with phantom power must be used.
- If the reader is supplied via PoE, no DC voltage can be provided at the antenna connections (e.g. for the external antenna multiplexer).
- Detailed technical information on the 802.3at standard can be found in the current version of the corresponding IEEE specification.

5.5 Ethernet Interface

The Ethernet interface has automatic crossover detection in accordance with the 1000BASE-T standard.

- At least STP CAT5 category cables must be used.
This guarantees problem-free operation at 10 Mbps or 100 Mbps.
- For the use of a TCP/IP protocol, each device integrated in the network has a factory-set IP address (IPv4).

IPv4

Network	Address
Enable_DHCP	true
IPAddress	192.168.10.10
Subnet-Mask	255.255.255.0
GatewayAddress	10001
Hostname	See "HostInterface.Hostname" in Manual H50223-0e-ID-B

Tab 6: Default setting for the Ethernet Interface IPv4

- The reader has an IPv6-capable Ethernet interface. IPv6 is switched off in the factory setting.

NOTE:

- The reader has a DHCP capable TCP/IP interface. The DHCP function is activated in the factory setting.
- Recommended cable type: STP CAT5 (for operation at 10 Mbps or 100 Mbps).

5.6 RS485 Interface [X2]

The RS485 interface is connected via terminal X2.



Fig 9: RS485 Interface

Address setting RS485 (Periphery Device)

- The transmission parameters can be configured via software protocol.
- The bus address is set via the software in the host. The RS485 bus is also terminated via the software.
- Address range: 0-254

NOTE:

- All readers are set to address 0 at the factory.
- The readers must be connected and configured one after the other.

5.7 Relay Output [X3]

A normally open contact (NO) is available as a relay output.

The output is galvanically isolated from the reader electronics and must therefore be supplied with an external voltage.

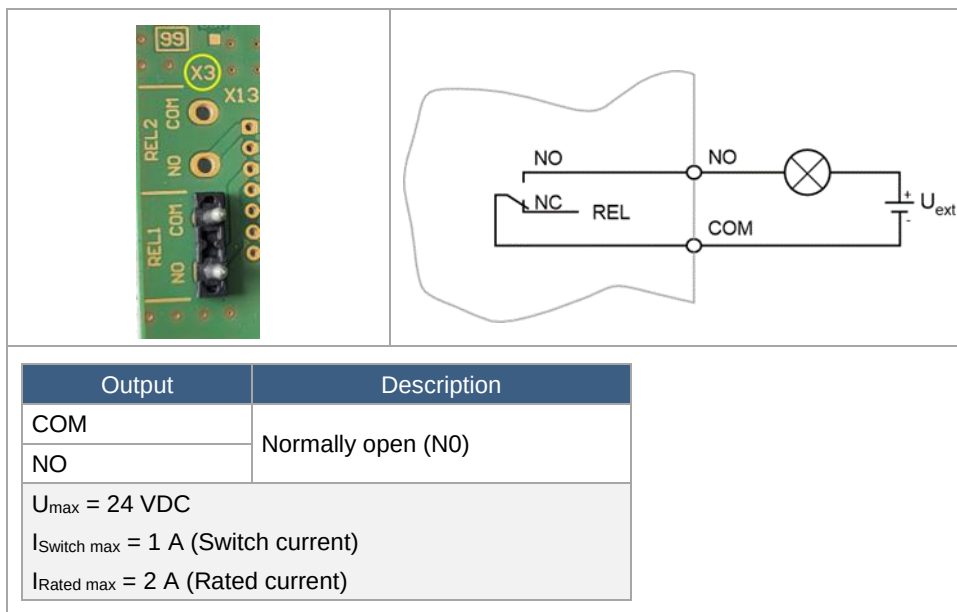


Fig 10: Relay output at Terminator [X3]

NOTE:

- The relay output is only intended for switching inductive loads.
- If an inductive load is connected, the relay contact must be protected by an external protective circuit.

5.8 Digital Input / Output [X4]

The digital input and output are connected to terminal X4.

The digital input/output (optocoupler) at terminal X4 is electrically isolated from the reader electronics and must therefore be supplied with an external voltage.

The input/output can be configured individually.

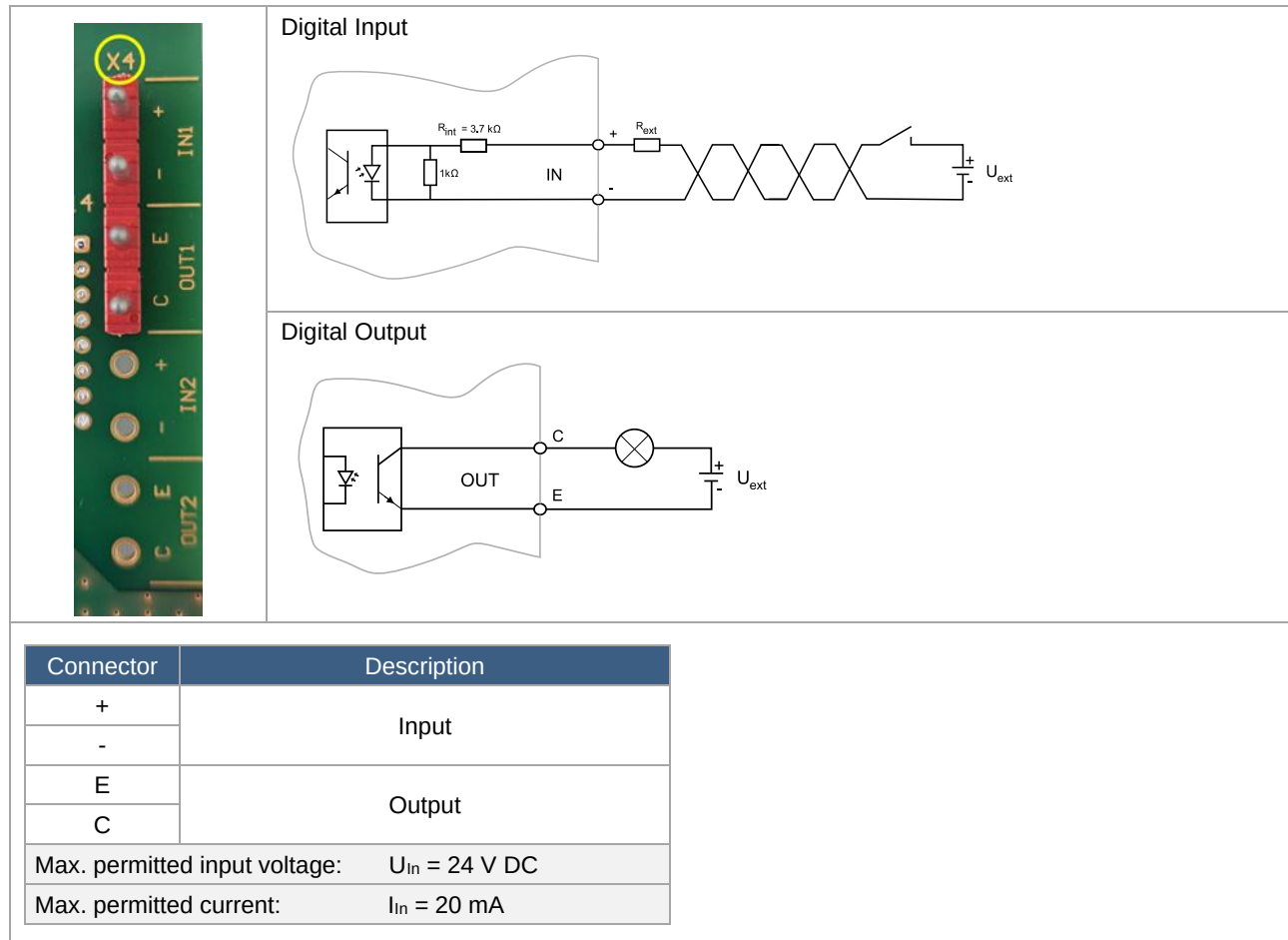


Fig 11: Digital input/output on terminal X4

NOTE:

- Reverse polarity or overloading of the input and output must be avoided (risk of destruction)
- The input and output is intended for switching resistive loads.

5.9 USB-OTG Service Interface [X6]

The reader has a USB OTG service interface to connect the reader to a host system (OTG: On The Go). The connection is made via a shielded standard USB cable. The data rate of the reader is limited to 12 Mbit (USB Full Speed).

X6

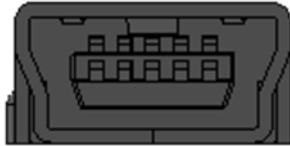


Fig 12: B-OTG Service Interface for host communication

NOTE:

USB cable length must be ≤ 5 m.

6 Status- and operating elements

NOTE:

The LED color of the green and blue LEDs can be configured according to the device status.

Status-LEDs	Color	Description
	LED Red (Ext 3)	1. Warning permanent lit 2. Boot process active irregular flashing duration approx. 40 s
	LED Green (default) (Ext 1)	RUN In the default setting (green LED), the idle state of the reader is displayed. The device is switched on and no transponders are being read.
	LED Blue (default) (Ext 2)	Transponder communication In the default setting (blue LED) the LED flashes each time a transponder is read. If several transponders are read in succession, the LED lights up continuously.
„Find Reader Mode“		
LED green / blue are flashing: The reader is in the „Find Reader Mode“		Exit "Find Reader Mode": Press button T1 for 1 second
„Power On Reset“		
	„Power On Reset“: Button T1 must be pressed for 5 seconds. This does not Change the configuration of the reader.	

Antenna LEDs internal		
ANT1	ANT2	LED Green: "RF ON" LED Blue: Transponder communication LED Red: Error

Tab 7: Status- and operating elements

7 Radio approvals

7.1 Declaration of Conformity

	Konformitätserklärung Hiermit erklärt FEIG ELECTRONIC GmbH, dass der Funkanlagentyp ID MRMU400 der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: https://www.feig.de/service/eu-konformitaetserklaerungen/
	Declaration of Conformity Hereby FEIG ELECTRONIC GmbH declares that the radio equipment type ID MRMU400 is in compliance with Directive No. 1206 Radio Equipment Regulations 2017. The full text of the UKCA declaration of conformity is available at the following internet address: https://www.feig.de/en/service/ukca-declarations-of-conformity/

7.2 USA (FCC) and Canada (IC)

Product name:	ID MRMU400
Reader name:	ID MRMU400
FCC ID: IC:	PJMMRMU400 6633A-MRMU400
Notice for USA and Canada	This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada. Operation is subject to the following two conditions. (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Unauthorized modifications may void the authority granted under Federal communications Commission Rules permitting the operation of this device. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

NOTE:

Changes or modification made to this equipment not expressly approved by FEIG ELECTRONIC GmbH may void the FCC authorization to operate this equipment.

7.2.1 Installation with FCC / IC Approval

NOTE:

To comply with FCC Part 15 Rules in the United States / with IC Radio Standards in Canada, the system must be professionally installed to ensure compliance with the Part 15 certification / IC certification. It is the responsibility of the operator and professional installer to ensure that only certified systems are deployed in the United States / Canada.

8 Technical data

Mechanical data	
Dimension (w x h x d)	Approx. 185 mm x 135 mm x 35 mm
Weight	Approx. 535 g
Electrical data	
Power supply	12 V – 24 V DC $\pm$ 10 %, Power over Ethernet (PoE+)
Power consumption	max. 12 W
Output Power	100 mW to max. 1 W, adjustable in 100 mW steps
2x Antenna Connector	2x MCX sockets (50 Ohm)
RF-Diagnosis	RF channel monitoring, antenna SWR monitoring, integrated overheating protection
Connection	I/O (M12, A-coded, 8-pin), RS485 / relay (M12, A-coded, 8-pin), Ethernet (M12, D-coded), power supply (M12, A-coded, 4-pin)
Output 1 Optocouplers 1 Relay	max. 24 V DC / 20 mA 1 Relay max. 24 V DC / 1 A switching current, 2 A permanent current
Input 1 Optocouplers	max. 24 V DC / 20 mA
Interface	• RS485 • Ethernet (IPv4/IPv6) • USB (On-The-Go)
Computing platform (Linux OS V 5.15)	ARM single Cortex-A7 800 MHz + Cortex-M4 (RFID), 1 GB Flash, 512 MB RAM
Reader Modes	Host Mode, Buffered Read Mode, Notification Mode
Transponder	• EPC Class1 Gen2 • ISO 18000-63 • ISO/IEC 29167
Indicator	Status LED
Environmental conditions	
Temperature Range Operation	-25 °C – +55 °C (extended temperature range -40 °C - +70 °C on request)
Storage	-25 °C – +85 °C (extended temperature range -40 °C - +85 °C on request)
Relative humidity	5% - 95% (no condensing)
Vibration	EN 60068-2-6 10 Hz to 150 Hz 0,075 mm / 1 g
EU	865 MHz – 868 MHz
FCC	902 MHz – 928 MHz

Radio approvals	
Europe	• EN 302 208 • EN 302 208 • FCC 47 CFR-Part 15 • IC RSS-247
UK	
USA	
Canada	
EMV	EN 301 489
Safety	
Electrical safety	EN 62368-1
Human Exposure	EN 50364
Cyber Security	EN 18031-1

Tab 8: Technical data

9 Accessories

Order No.	Article	Description
UHF Antennas		
EU: 5238.000.00	ID ANT.U580/290 UHF wide-range antenna 30 ° circular	Robust UHF antenna for connection to stationary UHF readers Optimized beam angle, increased antenna gain Connection: TNC socket
FCC: 5238.000.10		
EU: 5236.000.00	ID ANT.U290/290 UHF wide-range antenna 65 ° circular	Robust UHF antenna for connection to stationary UHF readers Connection: TNC socket
FCC: 5236.000.10		
EU: 3199.000.00	ID ISC.ANT.U270/270 UHF Antenna	Powerful UHF Antenna with 3dB beamwidth of 65 ° x 65 °
FCC: 3686.000.00		
EU: 6602.000.00	ID ANT.U150/150 UHF Antenna	Compact, robust UHF Antenna with SMA Connector, 3dB beamwidth 105 ° x 105 °
FCC: 6602.000.10		
EU: 6603.000.00	ID ISC.ANT.U280/210 UHF Antenna	Very flat UHF Antenna with SMA Connector via 30 cm coaxial cable, 3dB beamwidth 60 ° x 80 °
FCC: 6603.000.00		
6601.000.00	ID ANT.U82/82 UHF Antenna	Small, very compact UHF Antenna with SMA Connector Frequency Range: 864 - 929 MHz (ETSI & FCC)
LOCFIELD® UHF Antennas		
EU: 6236.000.00	ID ANT.U LOCFIELD® Typ: 037-080-28	LOCFIELD® UHF Antenna; active length: 0.37 m; total length: 0.80 m; cable diameter: 2.8 mm
FCC: 6236.000.10		
EU: 6236.001.00	ID ANT.U LOCFIELD® Typ: 100-150-28	LOCFIELD® UHF Antenna; active length: 1.0 m; total length: 2.0 m; cable diameter: 2.8 mm
FCC: 6236.001.10		
EU: 6236.002.00	ID ANT.U LOCFIELD® Typ: 200-250-28	LOCFIELD® UHF Antenna; active length: 2.0 m; total length: 2.5 m; cable diameter: 2.8 mm
FCC: 6236.002.10		
EU: 6236.003.00	ID ANT.U LOCFIELD® Typ: 200-300-50	LOCFIELD® UHF Antenna; active length: 2.0 m; total length: 3.0 m; cable diameter: 5.0 mm
FCC: 6236.003.10		
UHF Antenna cable (coaxial)		
7029.001.00	ID ANT.C2-D UHF-Antenna Cable R-TNC/SMA 2 m	H155 Coaxial cable for UHF-antennas with SMA socket and UHF-Reader with R-TNC Connector Connection type: R-TNC female / SMA male Length: 2 m
7029.002.00	ID ANT.C2-D UHF-Antenna Cable R-TNC/SMA 6 m	H155 Coaxial cable for UHF-antennas with SMA socket and UHF-Reader with R-TNC Connector Connection type: R-TNC female / SMA male Length: 6 m
5243.001.00	ID ANT.C2-C UHF Antenna Cable R-TNC/TNC 2 m	H155 Coaxial cable for UHF antennas with TNC socket and UHF reader with R-TNC connector Connection type: Connector R-TNC / Connector TNC Length: 2 m
5243.002.00	ID ANT.C6-C UHF Antenna Cable R-TNC/TNC 6 m	H155 Coaxial cable for UHF antennas with TNC socket and UHF reader with R-TNC connector Connection type: Connector R-TNC / Connector TNC Length: 6 m

UHF Antenna cable (coaxial)		
5335.000.00	ID ANT.C6-x UHF Antenna Extension Cable TNC/TNC 6 m	H155 Coaxial Extension Cable for UHF antennas with TNC socket Connection Type: TNC female / TNC male Length: ca. 6 m
1654.002.00	ID ISC.ANT.C2-A UHF Antenna Cable 2m	H155 Coaxial Cable for UHF Reader, Connection Plug SMA - male/male, Length: approx. 2 m
1654.003.00	ID ISC.ANT.C6-A UHF Antenna Cable 6m	H155 Coaxial Cable for UHF Reader, Connection Plug SMA - male/male, Length: approx. 6 m
Mounting Kits		
5255.000.00	ID MS.VESA100-A Mounting Set	Mast and wall mounting set with VESA100 receptacle for pipe diameters of 1" - 3" (approx. 2.5 cm to 7.6 cm)
3309.000.00	ID ISC.ANT.U270/270-MS Mounting Kit	Mast and wall mounting set for antenna ID ISC.ANT.U270/270, cylindrical profile bis 60 mm
6832.000.00	ID ANT.U150/150 Antenna connection shield	Antenna connection shield for ID ANT.U150/150 Material: 1.4301 (V2A)
Power Supply and Cable		
2557.000.00	ID NET.24V-B Power Supply Unit	Power Supply Unit for ID ISC.LR/LRM2500/1002, ID ISC.LRU/LRU3x00/1002. Versatile outlets available (EU, GB, US - not included).
2558.000.00	ID CAB.NET.24V-B-EU Cable with European Plug	Cable with Continental European Plug for Power Supply Unit ID NET.24V-B
2559.000.00	ID CAB.NET.24V-B-GB Cable with GB/UK Plug	Cable with GB Plug for Power Supply Unit ID NET.24V-B
2560.000.00	ID CAB.NET.24V-B-US Cable with US Plug	Cable with US Plug for Power Supply Unit ID NET.24V-B

Tab 9: Accessories

Document:
Id-No. Document Version:
Date:

Installation ID MRMU400
M50222-0e-ID-B
05.06.25

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