IDENTIFICATION

INSTALLATION

ID MRU400

UHF-Mid Range Reader
with integrated antenna

M50220-0e-ID-B

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

Content

1 Fields of application

The reader is designed for use in applications with low transponder density. An antenna output with an R-TNC socket (ANT1) and an internal antenna (ANT2) are available. Depending on the external antenna and transponder used, read ranges of up to 4 m can be achieved. The internal antenna is suitable for communication with near-field and far-field transponders. Reading ranges of 4-5 m are achieved.

The operating frequency in the UHF range is between 860 MHz and 960 MHz.

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 version

1.2 Scope of delivery

	Cable gland M20x1.5.PA.RAL9005. Wiska ESKV 20 (for service interface)
	Multi-seal MFD 16/02/040
	Multi-seal MFD 20/02/040
	Multi-seal MFD 20/04/040
	Reducing insert RDE 20 for cable gland M20 SPRINT
	Closure VFD 16 for cable gland M16 SPRINT
	Closure VFD 20 for cable gland M20 SPRINT
	2x UHF Transponder / 73 mm x 12,5 mm

Tab 2: Scope of delivery

2 Device description

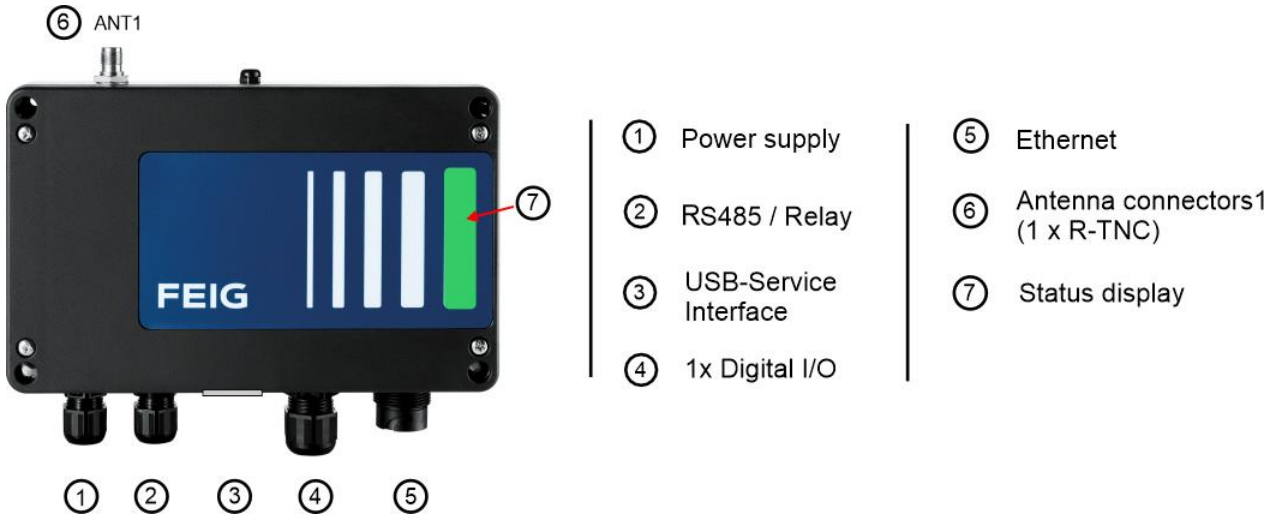


Fig 1: Top view

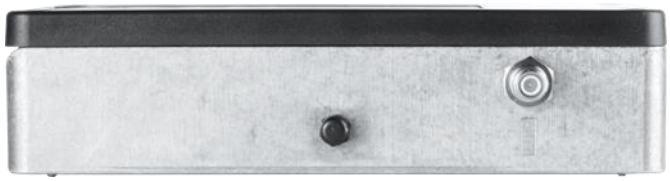


Fig 2: Antenna connection ANT1

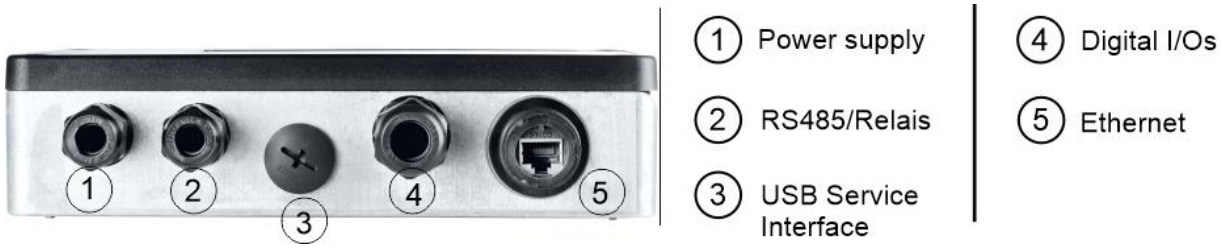


Fig 3: Cable glands

3 Installation

3.1 Mounting options

The reader is suitable for mounting on various indoor and outdoor surfaces.
The following mounting options are available:

- Wall mounting on a flat surface.
  Four holes are provided in the housing for wall mounting (M5)
- Mounting on a cylinder (pole) using a VESA 100 mount
  (not included in the scope of delivery).
  Four threaded holes (M5) are provided in the housing for mounting with a VESA 100.
- Mounting on a top-hat rail (top-hat rail adapter required; not included in the scope of delivery)
- Insulated mounting; M5x12 thread (Plastic mounting plate with plastic screws M5x12 required; not included in the scope of delivery).

3.2 Drilling template (reader)

The four outer holes are intended for wall mounting.
The four inner holes allow mounting with a VESA100 mount with corresponding thread.

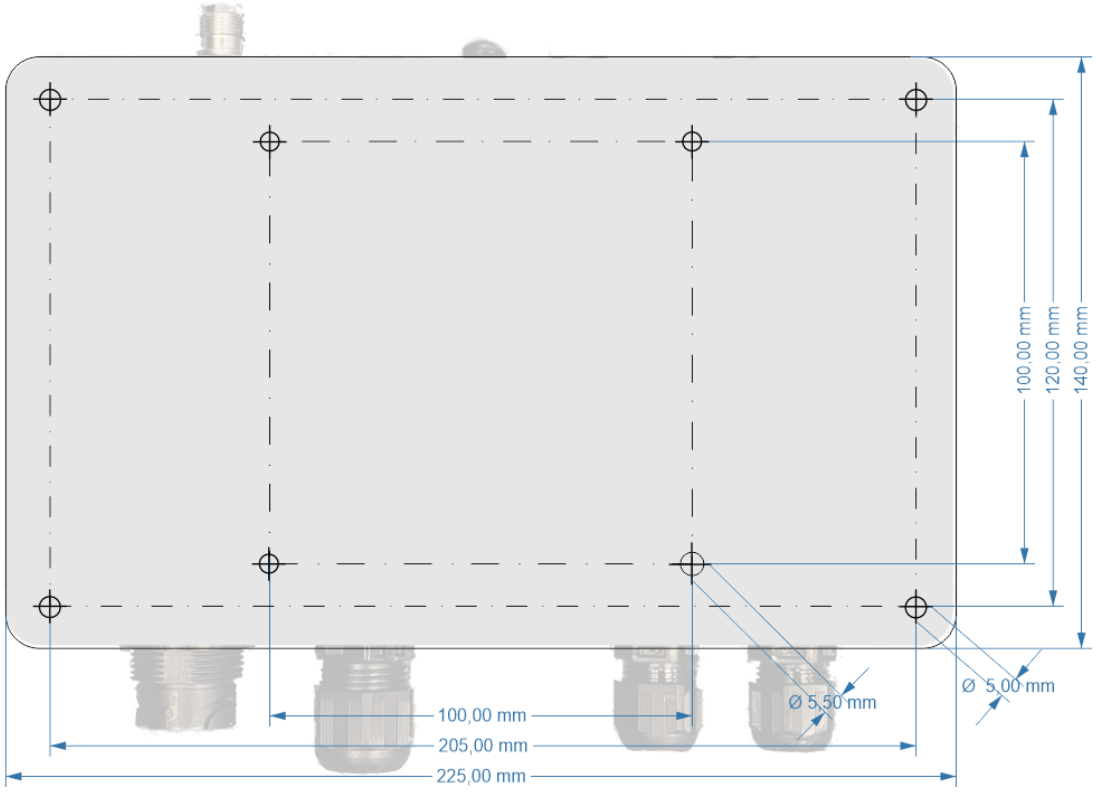


Fig 4: Drilling template reader

3.3 Drilling template for mounting plate (plastic material, accessory part)

Insulated mounting

A separate plastic mounting plate is available for “isolated mounting” of the device, e.g. on a vehicle frame. The mounting plate is screwed to the VESA100 mount using the enclosed screws (M5).

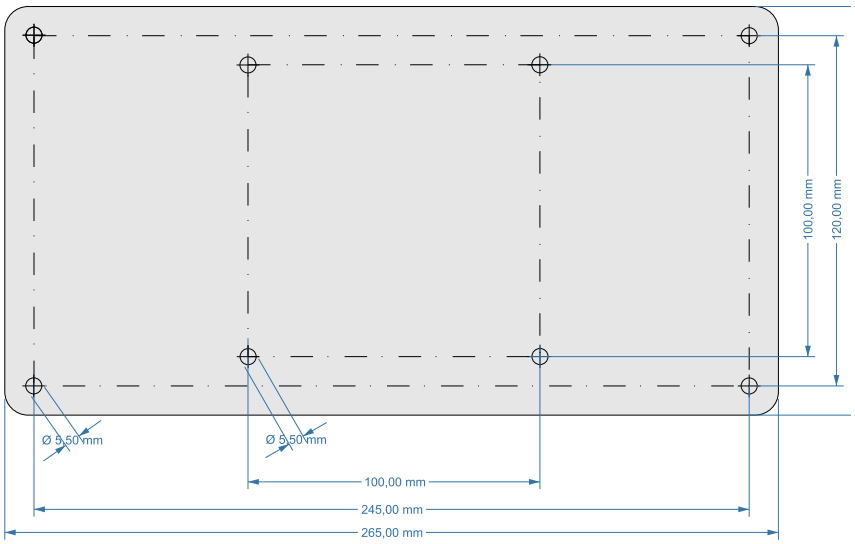


Fig 5: Drilling template for mounting plate

3.4 Opening the housing cover

1. The 4 screws (Fig 6, 1-4) in the corners of the housing cover must be loosened with a screwdriver. The front of the housing can then be opened to the right using the hinge.
2. Fig.7 shows the holes in the corners that are intended for mounting the reader (screw size M5).

NOTE:

- Open and close the housing cover carefully; the ribbon cable must not be damaged.
- To close the housing cover tightly, tighten screws 1-4 with a torque of xy Nm.

Fig 6: Open the screws of the housing cover

Fig 7: Open housing cover

4 Electrical connections

4.1 Description cable glands

No.	Description	Cable glands [size]
1	Power Supply	M16
2	RS485 / Relay	M16
3	USB-OTG	M20, (mini-USB)
4	Digital I/O	M20
5	Ethernet	RJ45 socket (CONEC 17-110324)

Fig 8: Cable glands

NOTE:

Sealing the Ethernet RJ45 socket 5

In order to seal the Ethernet connection, a corresponding counterpart from CONEC can be used for sealing.

Order-No. Ethernet RJ45 plug CONEC

- 17-10001 / RJ45 plug, bayonet lock
- 17-10002 / Protection cap
- 17-100464 / RJ45 plug, M28 thread

Customized cables

- 17-103204 / Cable with plug, shielded / 2m
- 17-103224 / Cable with plug, shielded / 5m
- 17-103234 / Cable with plug, shielded / 10m

4.2 Antenna connection

An ANT1 antenna output is available.

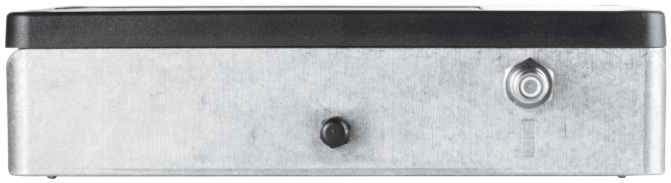
	• R-TNC socket "ANT1“ Impedance input 50 Ω • The maximum tightening torque of the R-TNC socket is 0.69 Nm.

Fig 9: Antenna connection ANT1

NOTE:

- 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 6 Radio Approvals

4.3 Terminal description

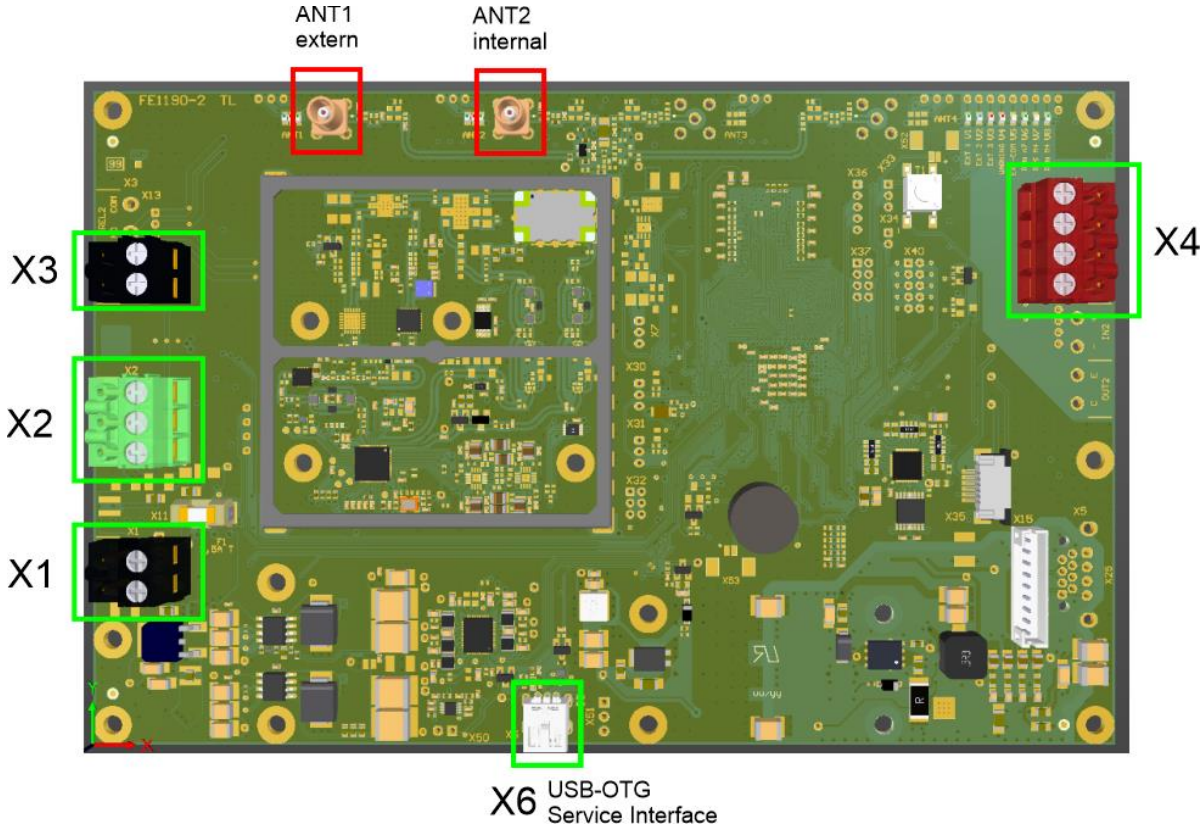


Fig 10: Plug-in terminal arrangement on the circuit board

4.4 Power Supply

4.4.1 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.
The supply voltage is supplied via the cable gland (1) See Fig 8: Cable glands.

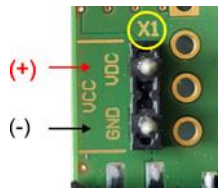


Fig 11: Pin assignment

Connection of the supply voltage to terminal X1

Terminal	Abbreviation	Description
X1 (+)	VCC	(+) VCC (12-24V DC ± 10%)
X1 (-)	GND	(-) Masse

Tab 3: Pin assignment supply voltage

Cross-section cable	Test method
ab 0,5 mm² oder größer	IEC 60332-1-2 und IEC 60332-1-3
weniger als 0,5 mm²	IEC 60332-2-1 und IEC 60332-2-2
Supply voltage 12 V...24 V DC ± 10 %	

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

NOTE:

- 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.

4.4.2 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 for PoE
0,4 mm²	~ 30 m
0,6 mm²	~ 70 m

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

NOTE:

- 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.

4.5 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 of 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).

4.6 RS485 Interface [X2]

The RS485 interface is connected via terminal X2.

Fig 12: RS485 Interface

Address settings RS485 (Periphery Device)

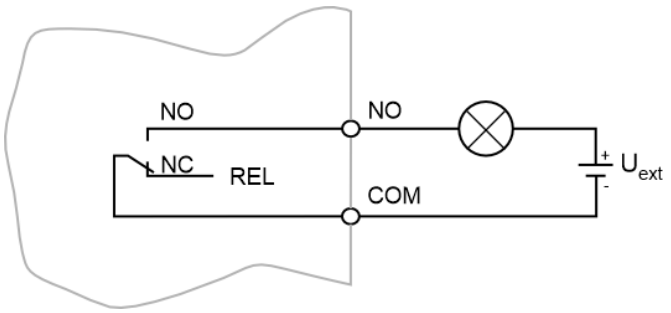
- The transmission parameters can be configured via software protocol.
- The bus address is set via the software in the host.
  The RS485 bus is also terminated via the software.
- Address range: 0-254

NOTE:

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

4.7 Relay output [X3]

A normally open contact (NO) is available as a relay output.
The outputs are galvanically isolated from the reader electronics and must therefore be supplied with an external voltage.



Output	Description
COM	Normally open contact
NO	
U_{max} = 24 VDC $I_{Switch\ max}$ = 1 A (Switch current) $I_{Rated\ max}$ = 2 A (Rated current)	

Fig 13: Relay output at Terminator X3

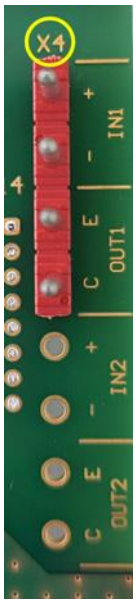
NOTE:

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

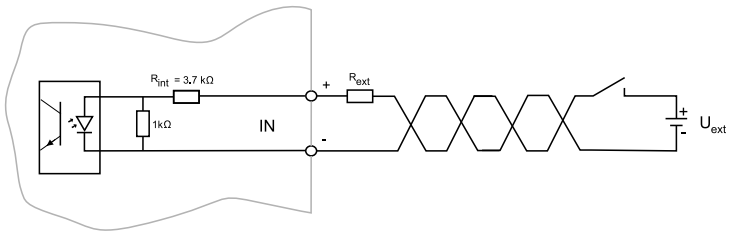
4.8 Digital Input / Output [X4]

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

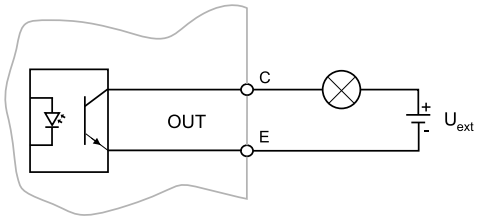
The input/output can be configured individually.



Digital Input



Digital Output



Terminal	Description
+	Input
-	
E	Output
C	
Max. permitted input voltage:	U_{In} = 24 V DC
Max. permitted current:	I_{In} = 20 mA

Abb. 1: Digital In-/Output on terminal X4

NOTE:

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

4.9 USB-OTG Service-Interface [X6]

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

- Remove the dummy plug and plug in the USB cable.
  The dummy plug must be closed with a torque of 1.1 Nm to restore the seal.
- The dummy plug can be permanently replaced with an M20 cable gland
  (included in the scope of delivery / torque value 1,1 Nm).

X6

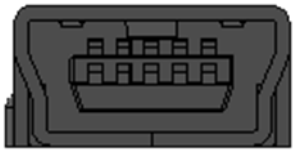


Fig 14: USB-OTG Service-Interface for host communication

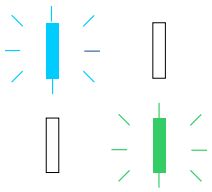
NOTE:

Length of the USB cable ≤ 5 m

5 Status- and Operating Elements

NOTE:

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

<table>
<tr><th>Display</th><th>LED Color</th><th>Description</th></tr>
<tr><td rowspan="3"> 
</td><td>LED Red</td><td>Warning</td></tr>
<tr><td>LED Green
(default)</td><td>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)</td></tr>
<tr><td colspan="2">Transponder-Kommunikation</td></tr>
<tr><td>LED Blue (default)</td><td>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.</td></tr>
<tr><td colspan="3">„Find Reader Mode“</td></tr>
<tr><td>LED Green / Blue are flashing:
The reader is in the
„Find Reader Mode“</td><td colspan="2"> 
Quitt „Find Reader Mode“:
Simultaneous pressing of the two buttons T1 + T2 for 1s</td></tr>
<tr><td colspan="3">„Power On Reset“</td></tr>
<tr><td> 
</td><td colspan="2">„Power On Reset“:
• Simultaneous pressing of the two buttons T1 + T2 for 5s
• The reader configuration remain unchanged.</td></tr>
<tr><td colspan="3">Antennea LEDs internal</td></tr>
<tr><td colspan="2"> 
</td><td>LED Green: “RF ON”
LED Blue: Transponder Communication
LED Red Error</td></tr>
</table>

Tab 7: Status- and Operating Elements

6 Radio Approvals

6.1 Declaration of Conformity (CE), (UKCA)

CE	**Konformitätserklärung (CE)** Hiermit erklärt FEIG ELECTRONIC GmbH, dass der Funkanlagen-Typ 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/
UKCA	**UKCA 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/

6.2 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.

6.2.1 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.

7 Technical Data

Mechanical data	
Dimension (w x h x d) without Connectors with Connectors	 Approx. 225 mm x 140 mm x 55 mm Approx. 225 mm x 190 mm x 55 mm
Weight	Approx. 1200 g
Housing	Aluminum housing, plastic cover
Color	Aluminum, anthracite (cover)
Protection class	IP65, IP67
Electrical data	
Power supply	12 V – 24 V DC ± 10 %, Power over Ethernet (PoE+)
Power consumption	max. 12 W
Output Power	100 mW to max. 1 W, adjustable in steps of 100 mW
1x Antenna Connector	1x R-TNC socket (50 Ohm)
1x Internal Antenna	1x Internal Antenna in the housing cover
RF-Diagnosis	RF-channel monitoring, Antenna SWR control, internal overheating control
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 Optocoupler 1 Relay	 max. 24 V DC / 20 mA 1 Relay max. 24 V DC / 1 A switching current, 2 A permanent current
Input 1 Optocoupler	 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	Highly visible status display (green/red/blue; customizable indication)
Environmental conditions	
Temperature Range Operation Storage	 -25 °C – +55 °C (extended temperature range -40 °C - +70 °C on request) -25 °C - +85 °C (extended temperature range -40 °C - +85 °C on request)
Relative Air Humidity	5 % up to 95 % (non-condensing)
Vibration	EN 60068-2-6 10 Hz bis 150 Hz 0,075 mm / 1 g

EU	865 MHz – 868 MHz
FCC	902 MHz – 928 MHz
Radio approvals	
Europe UK USA Canada	• EN 302 208 • EN 302 208 • FCC 47 CFR Part 15 • IC RSS-247
EMV	EN 301 489
Safety Electrical safety Human Exposure	 EN 62368-1 EN 50364
Cyber Security	EN 18031-1

Tab 8: Technical data

8 Accessories

Order No.	Article	Description
UHF Antennas		
EU: 5238.000.00 FCC: 5238.000.10	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
EU: 5236.000.00 FCC: 5236.000.10	ID ANT.U290/290 UHF wide-range antenna 65 ° circular	Robust UHF antenna for connection to stationary UHF readers Connection: TNC socket
EU: 3199.000.00 FCC: 3686.000.00	ID ISC.ANT.U270/270 UHF Antenna	Powerful UHF Antenna with 3dB beamwidth of 65 ° x 65 °
EU: 6602.000.00 FCC: 6602.000.10	ID ANT.U150/150 UHF Antenna	Compact, robust UHF Antenna with SMA Connector, 3dB beamwidth 105 ° x 105 °
EU: 6603.000.00 FCC: 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 °
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 FCC: 6236.000.10	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
EU: 6236.001.00 FCC: 6236.001.10	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
EU: 6236.002.00 FCC: 6236.002.10	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
EU: 6236.003.00 FCC: 6236.003.10	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
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 male / 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 male / 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)
7033.000.00	Insulated mounting plate	ID LRU4000 Mounting plate, electrically insulated
7035.000.00	Top hat rail adapter	ID LRU4000 Top hat rail adapter
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

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