IDENTIFICATION

Installation

ID LRU4000

UHF Long Range Reader

NOTE

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With the edition of this document, all previous editions become void. Indications made in this manual may be changed without previous notice.

Composition of the information in this document has been done to the best of our knowledge.
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The instructions given in this manual are based on advantageous boundary conditions.
FEIG ELECTRONIC GmbH does not give any guarantee promise for perfect function in cross environments and does not give any guarantee for the functionality of the complete system which incorporates the subject of this document.

FEIG ELECTRONIC GmbH calls explicit attention that devices which are subject of this document are not designed with components and testing methods for a level of reliability suitable for use in or in connection with surgical implants or as critical components in any life support systems whose failure to perform can reasonably be expected to cause significant injury to human health. To avoid damage, injury or death the user or application designer must take reasonably prudent steps to protect against system failures.

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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	Date	Description
0e	2024-11	Initial Version
1e	2025-06	1.2 Scope of Delivery 2 Cyber Security 5 Electrical connections “Note Cable routing / shielded cables, ferrite core” 5.9.1 Installing the cable gland for the USB cable
2e	2025-011	5.8 Digital I/Os [X4]; Resistor changed 8 Technical Data; Temperature range extended 9 Accessories; Protective Cap for Ethernet Connector RJ45 added
3e	2026-04	Minor changes and corrections 4.2 Device Dimensions added
4e	2026-05	8 Technical Data: Extended temperature range adjusted to 70 °C

Supported Documents

No.	Supported documents	Doc.No.
[1]	Detailed information https://www.feig.de/en/login/	
[2]	Manual	M40720-0e-ID-B
[3]	Quick Start	M40820-xde-ID-B

Content

1 Fields of application

With a reading range of over 10 m and 4 antenna connections, numerous long-range applications are possible in both, the industrial and logistics sectors.

- The high reception sensitivity ensures an extended and at the same time homogeneous tag detection range
- Support of transponders according to EPC Class1 Gen2 and ISO 18000-63

1.1 Device versions

Feature	LRU4000	LRU4000X	LRMU4000
			
Housing	✓	✓	
Transmitting power EU Version = 2 W FCC Version = 1 W	✓	✓	✓
4 x ANT OUT	✓	✓	✓
2 x REL OUT	✓	✓	✓
2 x Dig IN/OUT	✓	✓	✓
Circular connector		✓	
Cable glands	✓		
Terminal connections			✓
Ethernet / LAN, RS485, USB	✓	✓	✓
PoE (Power over Ethernet)	✓	✓	✓
LINUX Application Controller	✓	✓	✓
Web-Interface	✓	✓	✓

Tab 1: Device versions

1.2 Scope of Delivery

		1x Cable gland M20 (for USB Service Interface)
		2x Multi Seal M16 (for 2 cables)
		1x Multi Seal M20 (for 2 cables)
		1x Multi Seal M20 (for 4 cables)
		1x Reducing insert M20 (Ø 4 - 8 mm)
		2x Closure Seal M16
		1x Closure Seal M20
		2x UHF-Transponder, 73mm x 12,5 mm
		1x EMC Ferrite Toroid (Ø 0,28mm x 20 mm)

Tab 2: 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 LRU4000:

- 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

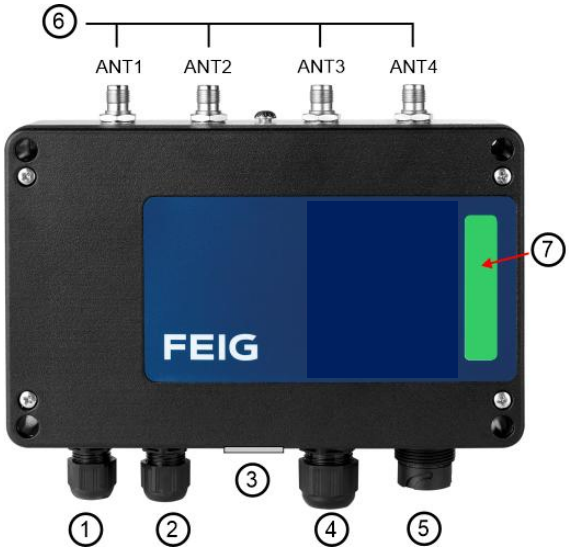
In order to comply with the requirements of the European Radio Equipment Directive (RED) 2014/53/EU article 3 (3), points (d), you are required to register in the FEIG download area under https://www.feig.de/en/ and subscribe to notifications for cyber security-related firmware and software updates for the product ID LRU4000.

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



1 Power supply
2 RS485 / Relais
3 USB-Service Interface
4 Digital I/O`s
5 Ethernet
6 Antenna connectors (4 x R-TNC)
7 Status display

Fig 1: Top view

Fig 2: Antenna connectors ANT1 – ANT4

1 Power supply
2 RS485/Relais
3 USB Service Interface
4 Digital I/Os
5 Ethernet

Fig 3: Cable glands

4 Installation

4.1 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 (M5)
  (not included in the scope of delivery).
  Four holes 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).

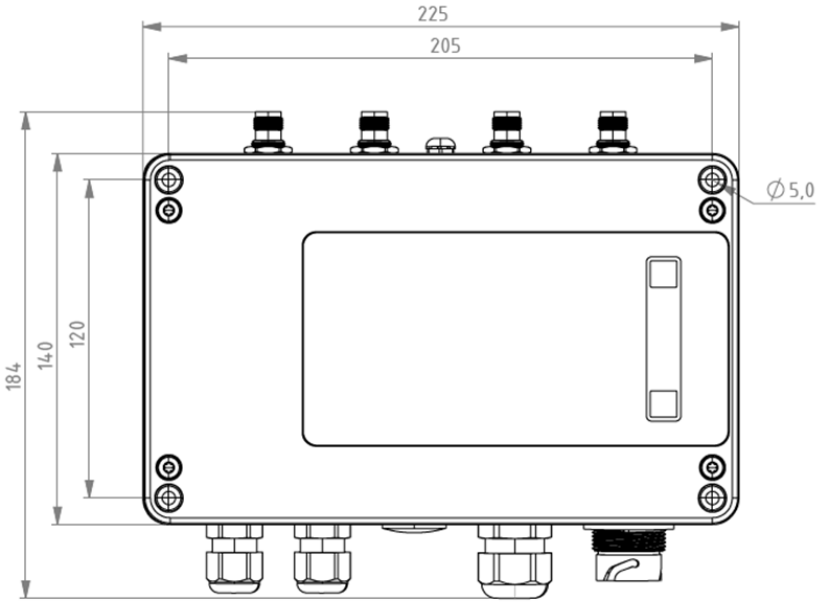
4.2 Device Dimensions

The dimensional drawing shown includes all dimensions relevant to the installation.

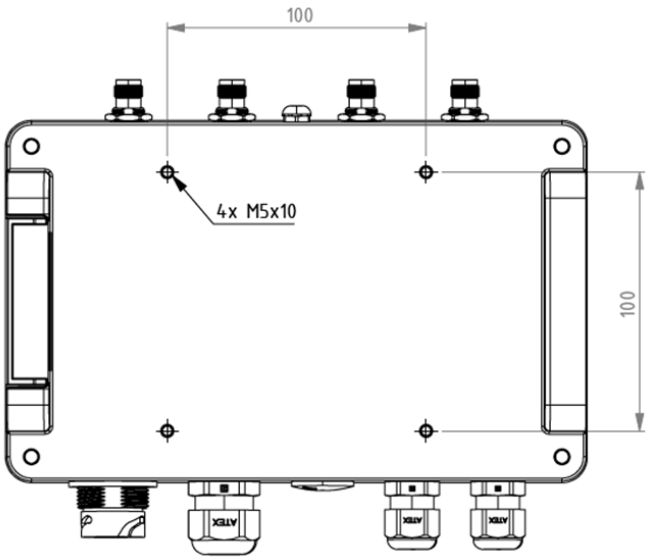
NOTE:

All dimensions are in millimeters [mm], unless otherwise specified.

Top view [mm]



Rear view [mm]



Side view [mm]

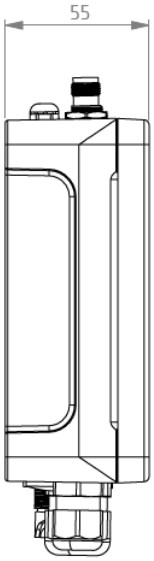


Fig 4: Dimension drawing

4.3 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.

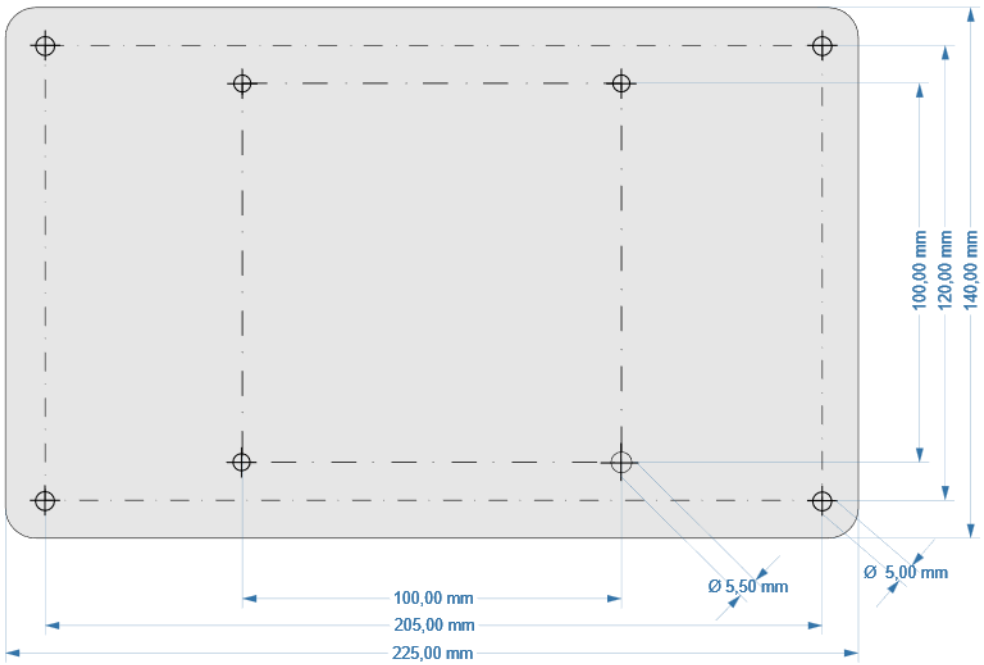


Fig 5: Drilling template (reader)

4.4 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).

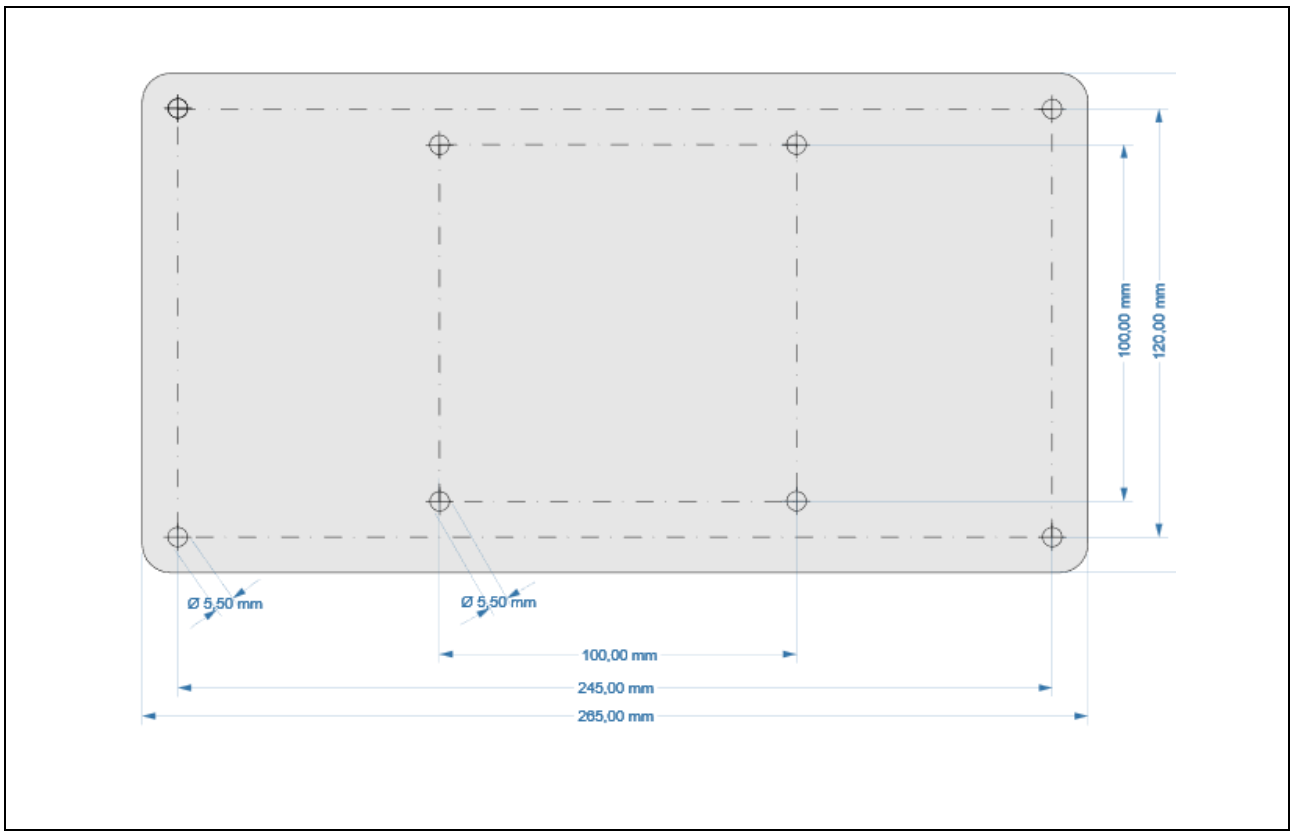


Fig 6: Drilling template for mounting plate

4.5 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:

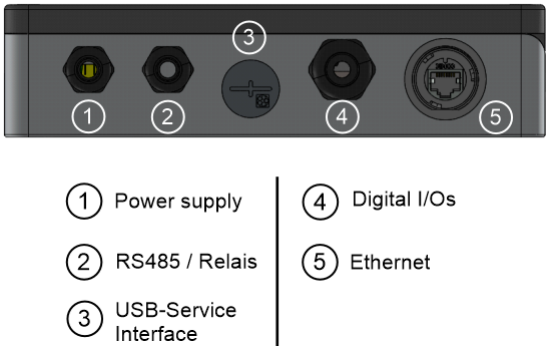
- The housing cover must be opened carefully so that the ribbon cable is not damaged.
- To close the housing cover tightly, tighten screws 1-4 with a torque of 1.1 Nm.

Fig 7: Open the screws of the housing cover

Fig 8: Open housing cover

5 Electrical connections

5.1 Description cable glands



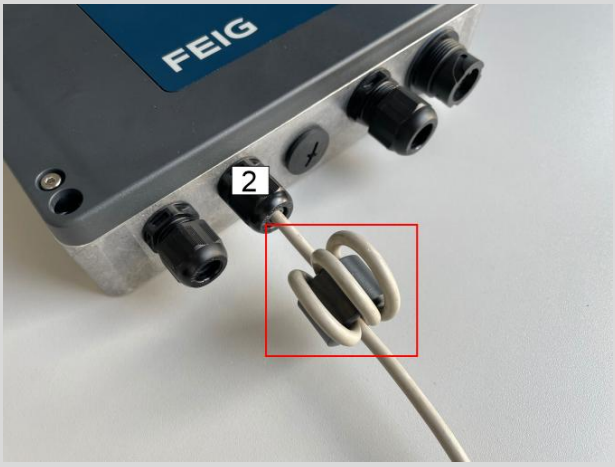
No.	Description	Cable glands [size]
1	Power Supply	M16
2	RS485 / Relay	M16
3	USB-OTG	M20, (mini-USB)
4	Digital I/O	M20
5	Ethernet	RJ45 socket (CONEC 17-110324)

Example of the cable glands

Fig 9: Description cable glands

NOTE:

The cable that is to be routed through cable sheathing 2 must be routed through the EMC toroidal ferrite with 3 windings.



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

5.2 Antenna connection

For the supply voltage of external components, such as the antenna multiplexer ID ANT.UMUX, the reader provides a DC voltage via the antenna cable.

U =12 V to 24 V
I_{max}. 500 mA

The antenna outputs must be configured accordingly.

- R-TNC sockets "ANT1"…„ANT4"
  Impedance input 50 Ω
- The maximum tightening torque of the R-TNC socket is 0.69 Nm.

Fig 10: Antenna connection ANT1… ANT4

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 declaration of conformity).
- Switching on the supply voltage via the antenna cable can lead to the destruction of the antennas when using antennas from other manufacturers.
- Direct connection of an antenna to an antenna output with the DC voltage switched on can, depending on the DC voltage can, depending on the DC resistance of the antenna, lead to the destruction of the antenna.

5.3 Overview Terminals

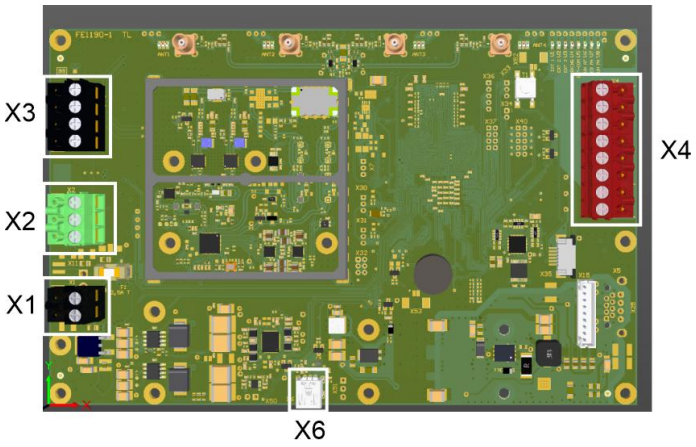


Fig 11: Overview of the terminals on PCB

5.4 Power Supply

5.4.1 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.

Fig 9: Description cable glands

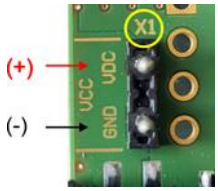


Fig 12: Terminal assinment X1

Connection of the supply voltage to terminal X1

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

Tab 3: Terminal description

Cross-section cable	Test method
from 0.5 mm² or larger	IEC 60332-1-2 und IEC 60332-1-3
less than 0.5 mm²	IEC 60332-2-1 und IEC 60332-2-2
Supply voltage 12 V...24 V DC ± 10 %	

Tab 4: Cross-section of the cable

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.

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

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

NOTE:

- PoE power supply: ≥ 42.5 V
- A “Power over Ethernet” power supply unit with phantom power must be used.
- The phantom power (inline power) is connected to the RJ45 plug via PINs 1, 2, 3 and 6.
- Simultaneous operation via an external power supply unit and PoE is not permitted.
- If the reader is supplied via PoE, no DC voltage (e.g. for the external antenna multiplexer) can be provided at the antenna connections.
- 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 H40720-xe-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).

5.6 RS485 Interface [X2]

The RS485 interface is connected via terminal X2.

Fig 13: RS485 Interface pinning

Address settings RS485 (Periphery Device)

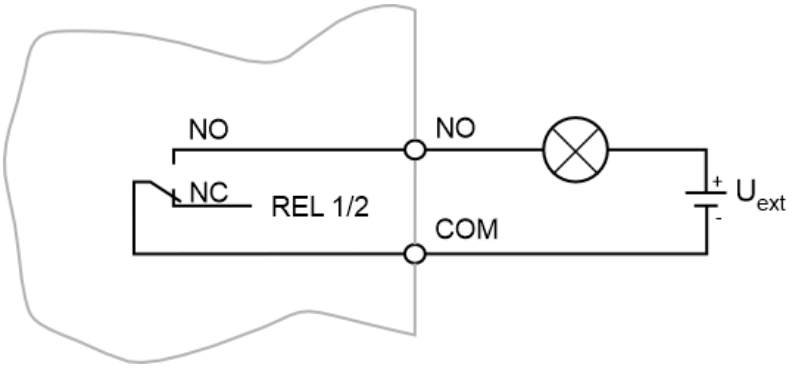
- The bus address is set via the software in the host.
  The RS485 bus is also terminated via the software.
- Address range: 0-254

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]

Two “NO contacts” (N0) are available as relay outputs. The outputs are galvanically isolated from the reader electronics and must therefore be supplied with an external voltage.



Output	Description
COM_2	Normally open contact 2
NO_2	
COM_1	Normally open contact 1
NO_1	
U_{max} = 24 VDC $I_{Switch\ max}$ = 1 A (Switch current) I_{max} = 2 A (Rated current)	

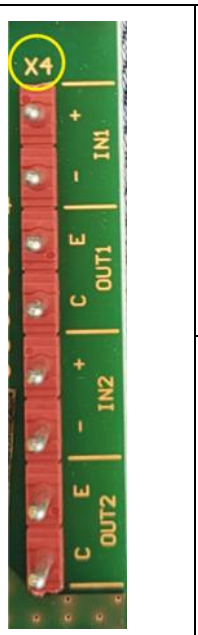
Fig 14: Relay output at Terminator X3

NOTE:

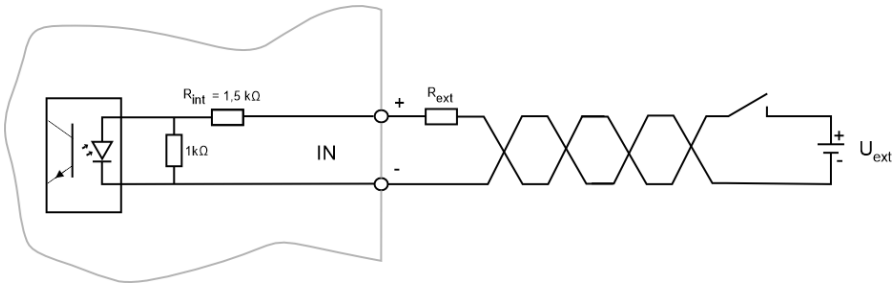
- The relay output is only intended for switching inductive loads.
- If an inductive load is connected, the relay contacts must be protected by an external protective circuit.

5.8 Digital I/Os [X4]

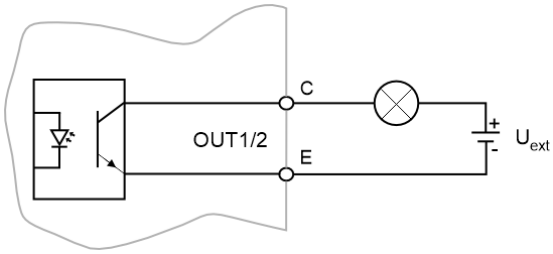
The two digital inputs and the two digital outputs are connected to terminal X4.
They are electrically isolated from the reader electronics and must therefore be supplied with an external voltage (optocouplers).
All inputs/outputs can be configured individually.



Digital Input



Digital Output



Terminal	Description
+	Input 1
-	
E	Output 1
C	
+	Input 2
-	
E	Output 2
C	
Max. permitted input voltage:	U_{IN} = 24 V DC
Max. :permitted current:	I_{IN} = 20 mA

Fig 15: Pinning X4

NOTE:

- Reverse polarity or overloading of the inputs/outputs must be avoided (risk of destruction)
- The inputs/outputs are only intended for switching resistive loads.

5.9 USB-OTG Service Interface [X6]

The reader has a USB-OTG interface 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).
- Length of the USB cable ≤ 5 m
- Remove the dummy plug (slotted screwdriver / torque value 4 Nm) and plug in the USB cable.
- The dummy plug can be permanently replaced with an M20 cable gland (included in the scope of delivery / torque value 1,1 Nm).

X6

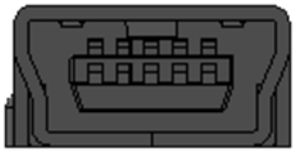


Abb. 1: USB-OTG Service Interface for host communication

5.9.1 Installing the cable gland for the USB cable

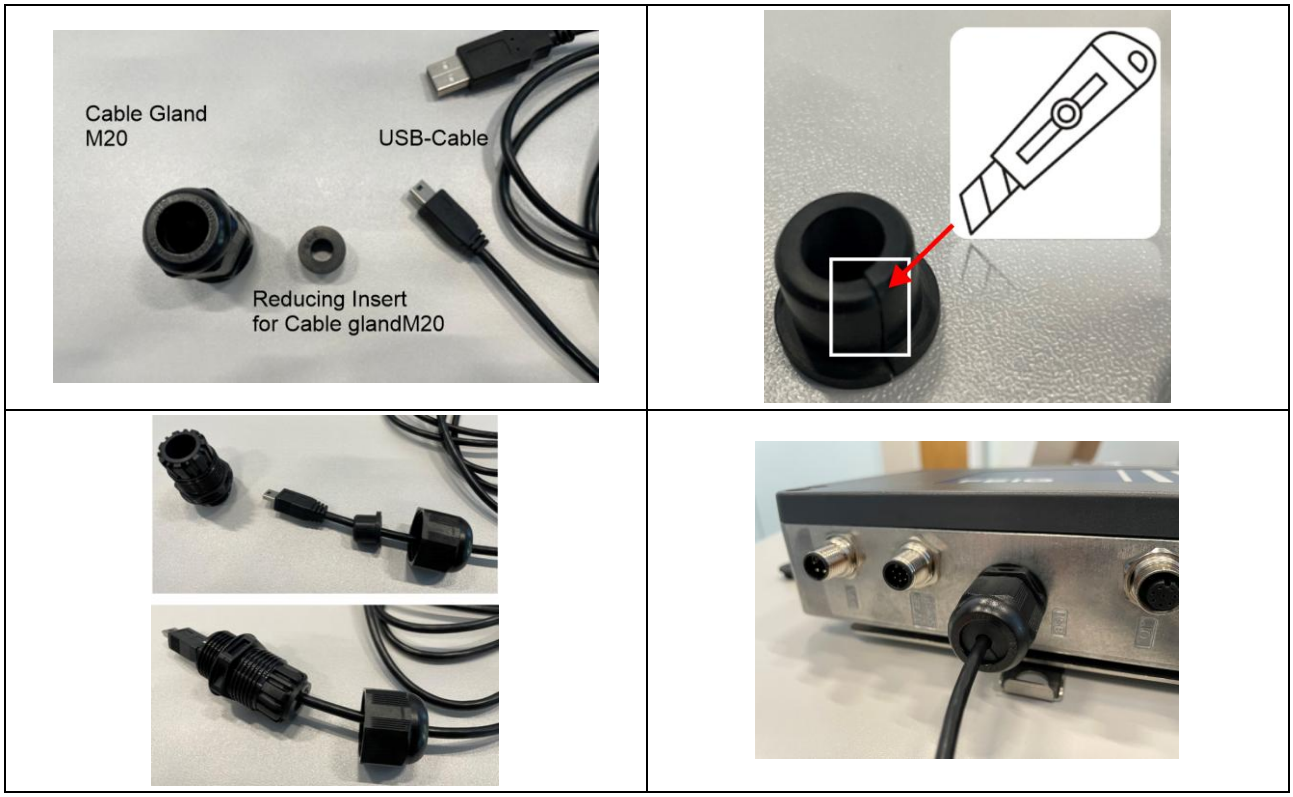
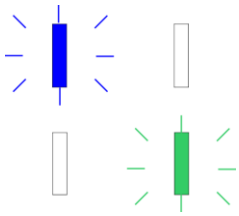


Fig 16: Installing the cable gland

6 Status- and Operating Elements

NOTE:

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

Display	LED Color	Description
	LED Red	**1. Warning** permanently lit **2. Boot process active** irregular flashing duration approx. 40 s Warning
	LED Green (default)	**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.
Transponder Communication		
	LED Blue (default)	**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“		
The reader is in the **„Find Reader Mode“** LED Green / Blue are flashing:		Quitt **„Find Reader Mode“:** Simultaneous pressing of the two buttons T1 + T2 for 1s
„Power On Reset“		
	**„Power On Reset“:** • Simultaneous pressing of the two buttons T1 + T2 for 5s • The reader configuration remain unchanged.	
Antenna LEDs internal		
	LED Green: “RF ON” LED Blue: Tag communication LED Red: Error	

Tab 7: Status- Operating Elements

7 Radio Approvals

7.1 Declaration of Conformity

CE

Hereby, FEIG ELECTRONIC GmbH declares that the radio equipment type ID LRU4000 is in compliance with directive 2014/53/EU.

The full text of the EU Declaration of Conformity is available at the following internet address:

https://www.feig.de/en/service/

https://www.feig.de/wp-content/uploads/ID_LRU4000_Declaration_of_Conformity_RED.pdf

7.2 USA (FCC) and Canada (IC)

NOTE:

The RFID reader ID LRU4000 contains the RFID module ID LRMU4000.

Product name:	ID LRU4000
FCC ID: IC:	PJMLRMU4000 6633A-LRMU4000
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.

Radiofrequency radiation exposure Information:	This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps. Ce transmetteur ne doit pas être place au meme endroit ou utilise simultanement avec un autre transmetteur ou antenne.

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

FCC-/IC-NOTICE: 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) 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. 18 W (Specification without external antenna multiplexer)
Output Power	100 mW to max. 2W, configurable in steps of 100 mW
Antenna Connector	4 x R-TNC-Jack (50 Ohm), integrated Multiplexer, support of external Multiplexer ID ANT.UMUX
RF-Diagnosis	RF-channel monitoring, Antenna SWR control, internal overheating control
Outputs 2 Optocouplers 2 Relays	 max. 24 V DC / 20 mA 2 Relays max. 24 V DC / 1 A switching current, 2 A permanent current
Inputs 2 Optocouplers	 max. 24 V DC / 20 mA
Interfaces	• RS485 • Ethernet (IPv4/IPv6) • USB (On-the-Go)
Operating system (Linux OS V 5.15)	ARM single Cortex-A7 (Linux**)** + Cortex-M4 (RFID) 1 GB Flash, 512 MB RAM
Reader Modes	• Host Mode • Scan Mode • Buffered Read Mode • Notification Mode
Supported 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 Extended temperatur range for opration*	 • -40 °C to +55 °C • -40 °C to +70 °C

Temperature range Storage	• -40 °C to +85 °C
Relative Air Humidity	5 % up to 95 % (non-condensing)
Vibration	• EN 60068-2-6 • Hz to 150 Hz • 0,075 mm / 1 g
Radio approvals	
EU	865 MHz – 868 MHz
FCC	902 MHz – 928 MHz
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
*** Transmission power max. 1.0 W; PoE supply not permitted**	

Tab 8: Technical data

9 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 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)
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
Protective Cap		
7406.000.00	5 x protective cap for Ethernet Connector (CONEC 17-10002)	ID LRU4000/MRU400 Protective Cap for Ethernet Connector RJ45 (PU = 5 pcs.) suitable for LRU4000 and MRU400

Tab 9: Accessories

Document: Installation ID LRU4000
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