

**Annex acc. to FCC Title 47 CFR Part 15  
relating to  
FEIG ELECTRONIC GmbH  
ID LRM5400**

**Annex no. 4  
User Manual  
Functional Description**

**Title 47 - Telecommunication  
Part 15 - Radio Frequency Devices  
Subpart C – Intentional Radiators  
Measurement Procedure:  
ANSI C63.4-2014  
ANSI C63.10-2013**



Deutsche  
Akkreditierungsstelle  
D-PL-12053-01-03

**User manual/ Functional description of the test equipment (EUT)**

Installation

## ID LR5400

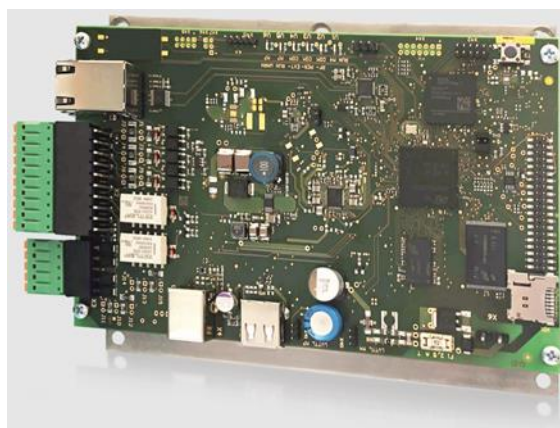
## ID LRM5400

Long Range Reader

ID LR5400 (Housing)



ID LRM5400 (Modul)



IDENTIFICATION	ID LR(M)5400	Note
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## 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!
- ▶ Special advice for wearers of cardiac pacemakers:  
Although this device doesn't exceed the valid limits for electromagnetic fields you should keep a minimum distance of 25 cm between the device and your cardiac pacemaker and not stay in the immediate proximity of the device's antenna for any length of time.

## History of Documentation

Revision	Date	Description
0e (english)	October 2022	Initial Version

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# 1 Performance Features

The ID LR5400 is a reader for contactless data exchange with transponders according to ISO 15693 and ISO 18000-3M3 (smart labels).

It is designed for use with one or more external antennas. The connection to a computer or other device (host) is made via one of the three interfaces.

- Schnittstellen
  - RS485
  - USB
  - LAN
- Operating frequency  $f = 13,56$  MHz

① **NOTE:**  
For the operation it is necessary to connect a appropriate external antenna to the connectors ANT1 – ANT4.

## 1.1 Available Reader Type

Variant	Designation	Article no
Housing version	ID LR5400 HF LR Reader Unit	6194.000.00
Module version	ID LRM5400 HF LR Reader Unit	6193.000.00

Table 1: Available reader types

## 2 Installation and mounting

### 2.1 Installation

The reader module is designed for mounting on a heat sink. For mounting, there are five holes each with  $\varnothing$  4.5 mm (marked yellow) in the carrier plate.

#### Housing

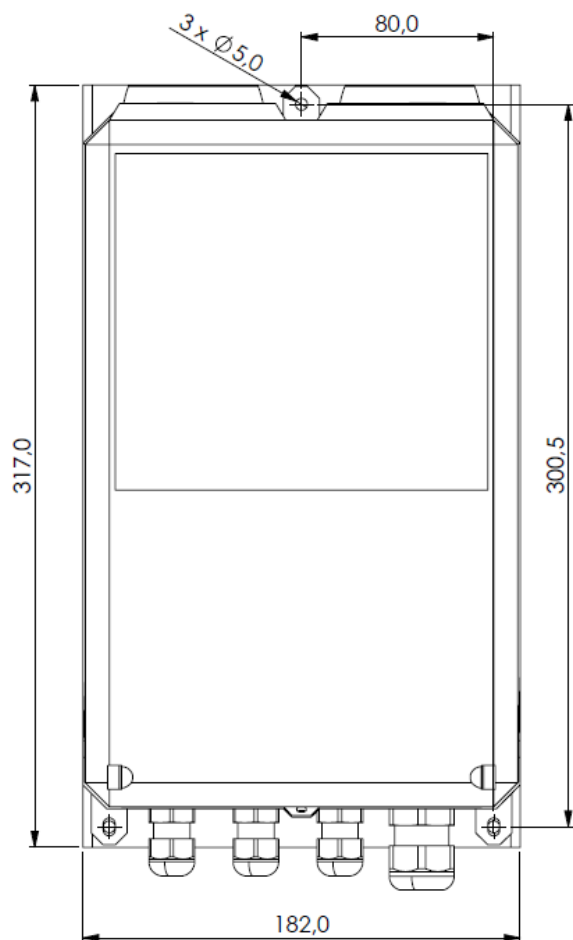


Figure 1: Top view housing

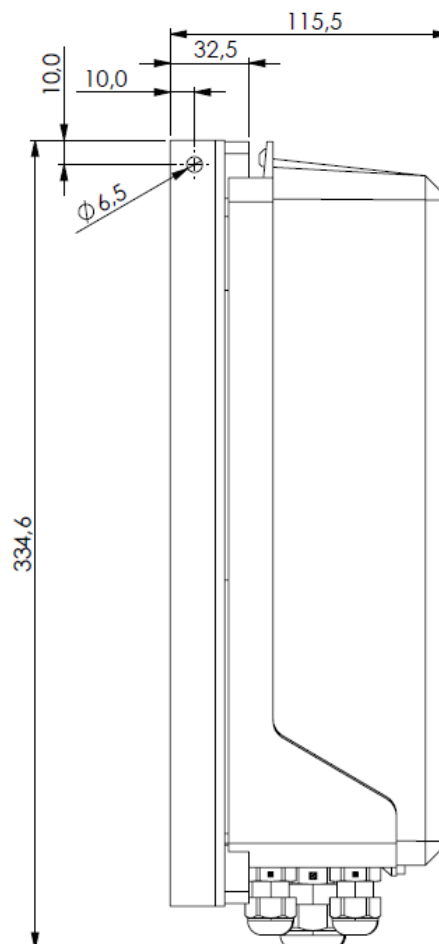


Figure 2: Side view housing

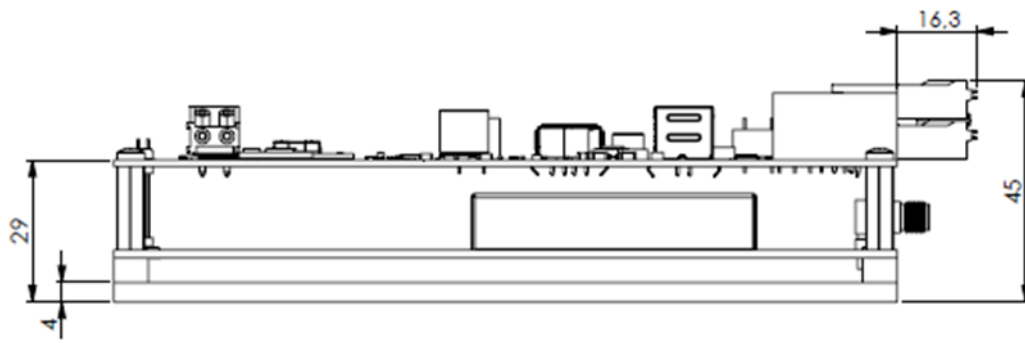


Figure 3: Front view readermodul

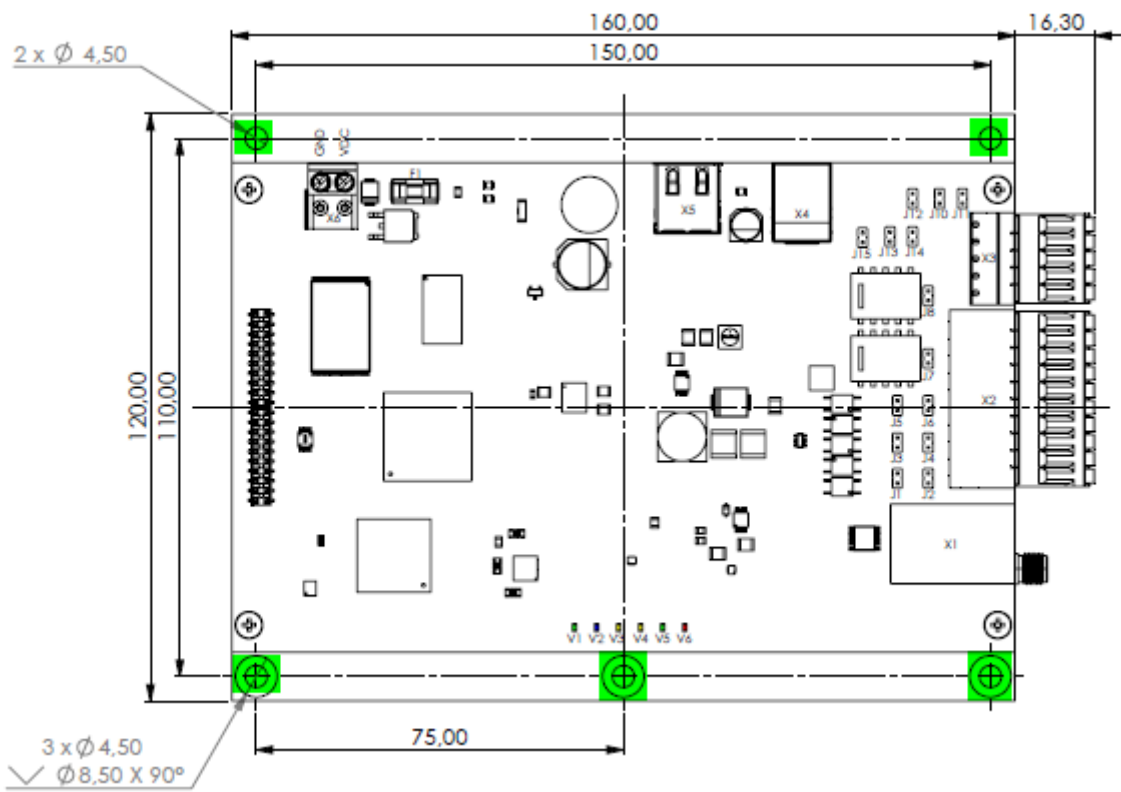


Figure 4: Top view readermodul with bolt holes





The following points must be observed to utilize the full performance of the reader module:

- The thermal resistance  $R_{ThK}$  of the heat sink must not exceed a maximum of 1.0 K/W.  
 $R_{ThK} \leq 1,0 \text{ K/W}$
- The heat transfer resistance between the carrier plate and the heat sink should be as low as possible.
- The use of thermal paste is recommended.

① **NOTE:**

- With an optimally tuned antenna and sufficient air convection along the mounting plate, the ID LRM5400 can also be operated up to a power of 2 W without an additional heat sink.
- Detuning the antenna always leads to additional heating of the reader. In this case, the reader regulates its output power back until the upper limit temperature of its output stage is undershot again.

## 2.2 Control elements and connection terminals

	Terminals	X1 – X6
	LED	V1 - V6
	Jumper	J1 - J15
	Antenna terminals	ANT1- ANT4

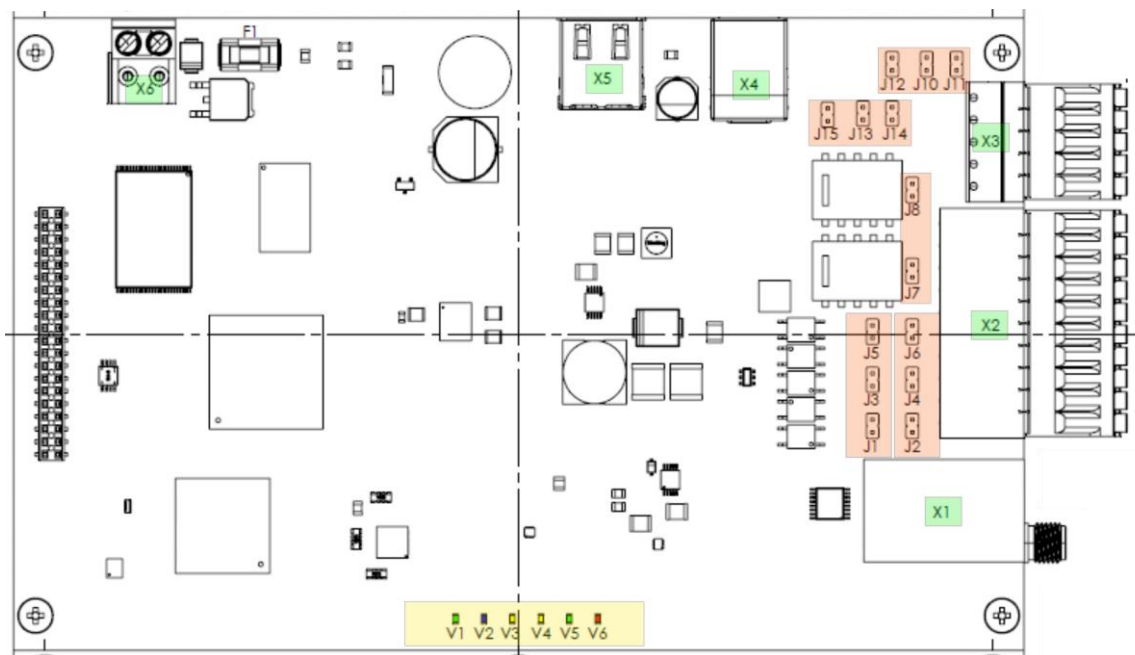


Figure 5: Marked terminals, jumper and LEDs

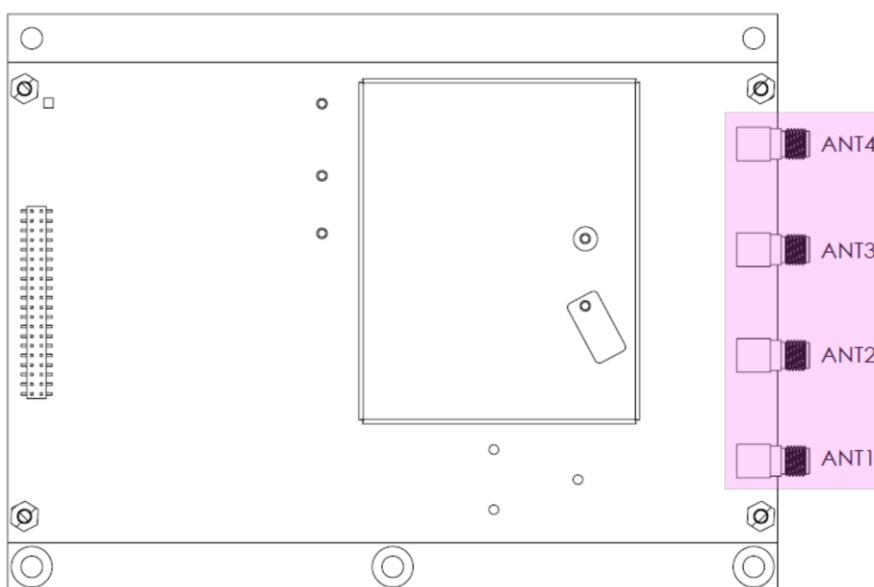


Figure 6: Antenna terminals ANT1-ANT4

## 2.2.1 Cable Glands (only ID LR5400 housing)

The cable glands are located on the underside of the housing.

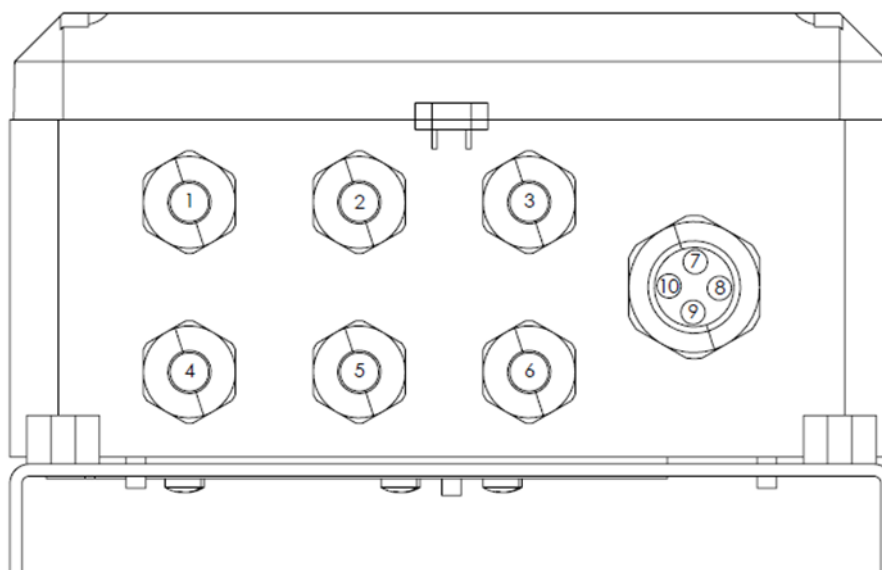


Figure 7: Cable glands on the underside of the housing

Cable gland	Size	Clamping range [mm]	Description
1	M16	Ø 4.5 – 10 mm	4,5mm -10mm ANT2
2			4,5mm -10mm I/O
3			4,5mm -10mm I/O
4			4,5mm -10mm ANT1
5			4,5mm -10mm ANT3
6			4,5mm -10mm ANT4
7	M25	Ø 4.0 – 6,0 mm	4mm-6mm - USB/Network
8			4mm-6mm - Interface
9			4mm-6mm - Interface
10			4mm-6mm - Interface

Table 2: Dimension of the cable glands

### Cable routing



Figure 8: Arrangement of the connecting cables

### 2.2.2 Open the cover

The latch on the housing cover must be pressed outward with a screwdriver.

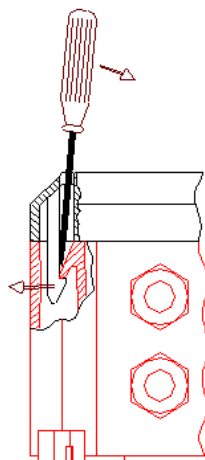


Figure 9: Open the cover

## 2.3 Antenna connections

- 4 x SMA sockets "ANT1" to „ANT4"  
Input impedance 50  $\Omega$
- Active external function units (e.g. ID ISC.DAT) can additionally be supplied with 8 V DC via the antenna connector. The voltage is set via the software.
- Current consumption  $\leq$  150 mA.
- The tightening torque of the SMA socket  $\leq$  0.45 Nm.

### ① NOTE

- Standing wave ratio VSWR of the antenna  $\leq$  1.3.
- To achieve optimum reading ranges, the coaxial cables between reader and antenna must have defined lengths. For all antennas from FEIG ELECTRONIC GmbH and for all antennas which are equipped with the adjustment boards (e.g. ID DAT, ID MAT-B and ID MAT-S) from FEIG ELECTRONIC GmbH the optimum length of the coaxial cable is 1.35 m (article no. 1654.004.00.00, designation ID ANT.C-B).  
See also "installation instructions" Power Splitter ID ANT.PS-B and ID ANT.MUX.
- The optimum operating quality of the antenna should be in the range  $Q = 10 \dots 30$ . To determine the operating quality, the antenna must be supplied with a 50  $\Omega$  source, e.g. a network analyzer or a frequency generator.
- To avoid externally coupled interference, the antenna feed line must be provided with the enclosed EMC toroidal ferrite  $\varnothing 28$  mm x 20 mm. For this purpose, the antenna feed line must be passed through the EMC toroidal ferrite at least four times, tightly wound. The distance between the ANT1-4 reader connection and the toroid should not exceed 10 cm.
- When connecting the antenna, make sure that it does not exceed the permissible limits of the national regulations concerning radio equipment.



Figure 10: Antenna cable with EMV ferrite core



## 2.4 Power supply

The reader must be powered only from a power source conforming to EN 62368-1 Chapter Q.1 Power Sources of Limited Capacity or with an NEC Class 2/LPS certified power supply.

The external circuitry of the power supply:  $\geq 0.5 \text{ mm}^2$

The supply voltage of 24 VDC is connected to Terminal X6.

Terminal	Abbreviation	Description
X6 / Pin 1	VDC	Supply voltage +24 V
X6 / Pin 2	GND	Ground (-)

Table 3: Pin-outs for supply voltage on X6

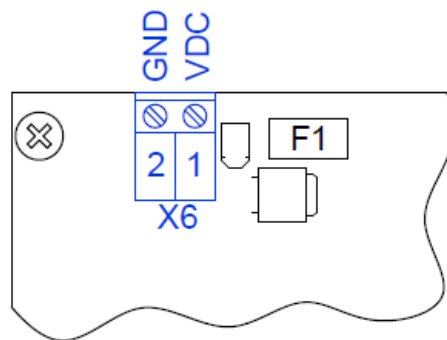


Figure 11: Position of the connector X6 for the power supply

### ① NOTE:

- Make sure that the supply voltage is connected correctly. Reversing the polarity of the supply voltage can destroy the device.
- For compliance with national regulations regarding radio equipment, the supply voltage lead must be fitted with the enclosed EMC toroidal ferrite  $\varnothing 28 \text{ mm} \times 20 \text{ mm}$ . For this purpose, the cable must be looped through the EMC toroidal ferrite at least five times, tightly wound. The distance between the reader connection and the toroid should not exceed 10 cm.

## 2.5 Digital Inputs IN1, IN2, IN3

The three digital inputs are available on terminal X2.

The digital inputs on terminal strips X2 are galvanically isolated from the reader electronics and must therefore be powered externally. The external VDC voltage may however be provided by the reader. The 3 inputs are individually configurable.

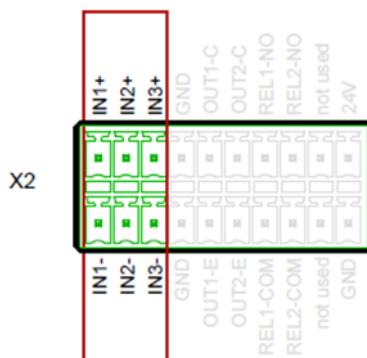


Figure 12: X2 Digital Inputs (IN1, IN2, IN3)

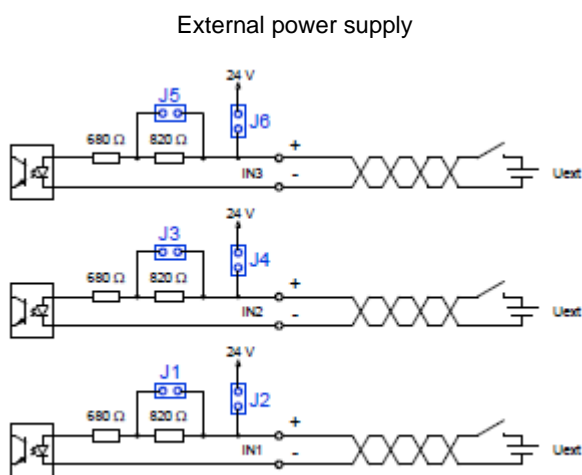


Figure 13: External power supply for the digital inputs

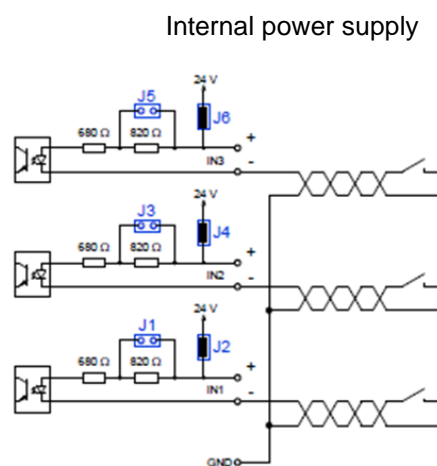


Figure 14: Possible internal power supply for the digital inputs

The input LED for the optocouplers are internally connected to a series resistor of 1500 Ω and are limited to an input current of max. 20mA. For voltages of less than 10 VDC a part of the series resistance (820 Ω) must be jumpered (J1, J3, J5) accordingly.

**NOTE:**

Reverse polarity or overload will destroy the input.

### Jumper settings power supply

Digit. Eingänge	Jumper	Beschreibung
IN1 (X2)	J1	Bypassing the series resistor at VDC < 10 V
IN2 (X2)	J3	Bypassing the series resistor at VDC < 10 V
IN3 (X2)	J5	Bypassing the series resistor at VDC < 10 V

Table 4: Jumper for inputs IN1, IN2 und IN3

### Setting internal or external power supply

Power supply	Jumper: J2, J4, J6
External power supply ( $U_{\text{external}}$ )	open
Internal VDC power supply $U_{\text{internal}}$	closed

Table 5: Select power supply

### external series resistances for external power supply

Power supply	Jumper: J1, J3, J5
5 VDC – 10 VDC	IN
10 VDC – 24 VDC	OFF

Table 6: Settings external power supply

#### ① **NOTE:**

- The internal 24 VDC voltage for supplying the DC voltage on the digital inputs is not protected by the fuse F1.
- The simultaneous use of an internal and an external power supply is not permitted.

## 2.6 Digital outputs OUT1, OUT2

The digital outputs on terminal strips X2 are galvanically isolated from the reader electronics and must therefore be powered externally and are carried to the outside without any internal ancillary circuitry on terminal X2. The output must therefore be powered by an external power supply.

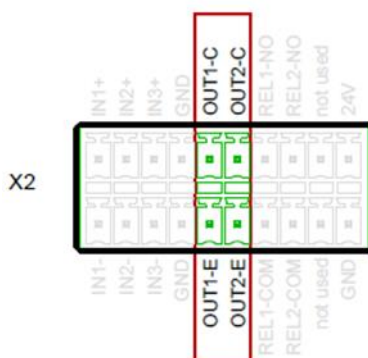


Figure 15: Digital output on X2

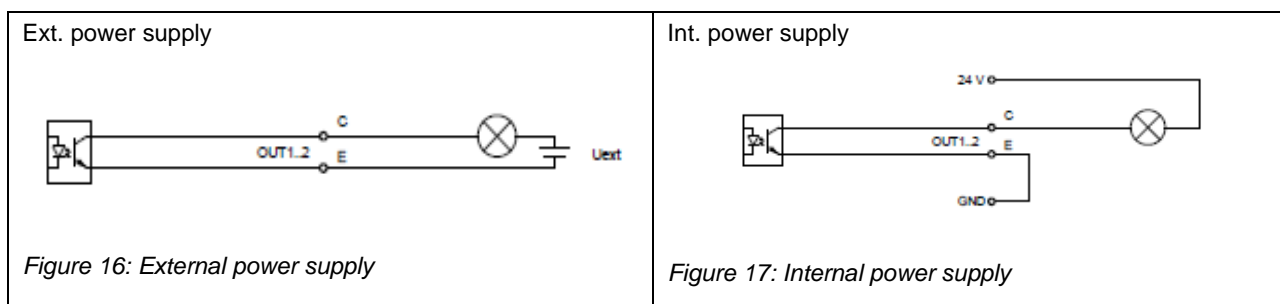


Figure 10: Internal and possible external wiring of the digital output OUT1-2

### ① NOTE:

- The output is configured for max. 24 VDC / 30 mA.
- Polarity reversal or overload on the output will destroy it.
- The output is intended for switching resistive loads only.

## 2.7 Relay REL1, REL2

The relay outputs are all a normally open contact. These outputs, which are located on terminals X2, are galvanically isolated from the Reader electronics and must therefore be externally supplied. The external voltage may however be provided by the card using jumper J7;J8;J9.

The two outputs are identical and can be configured individually.

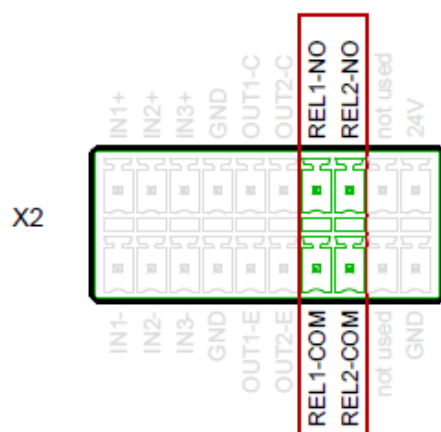


Figure 18: Relay Outputs on terminal X2

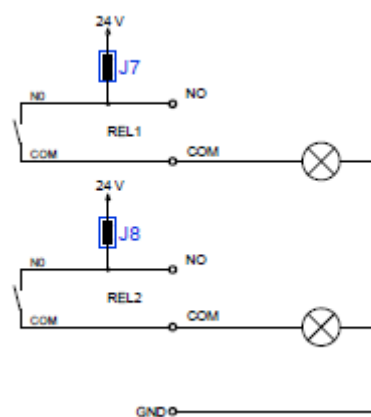


Figure 19: Internal and possible external wiring of the relay output's

### Jumper

Relay	Jumper	Description
REL1 (X2)	J7	Power supply VDC
REL2 (X2)	J8	Power supply VDC

Table 7: Jumper settings

### Settings internal or external power supply

Power supply	Jumper: J7, J8, J9
External power supply ( $U_{\text{external}}$ )	open
Internal VDC power supply $U_{\text{internal}}$	closed

Table 8: Internal- / External voltage supply

#### ① NOTE:

- The relay output is configured for max. 24 VDC/ 1 A.
- The relay output is intended for switching resistive loads only. If an inductive load is connected, the relay contacts must be protected by means of an external protection circuit.
- The internal 24 VDC voltage for supplying the DC voltage on the relays is not protected by the fuse F1.
- Using internal and external voltage at the same time can destroy the reader.

## 2.8 Power supply 24 VDC/GND

The output 24V/GND on X2 can be used to power the optional external circuitry of the digital inputs, outputs or relays. The maximum current consumption must not exceed 500 mA.

A possible current consumption via J2, J4, J6 or J7, J8, J9 must be factored in.

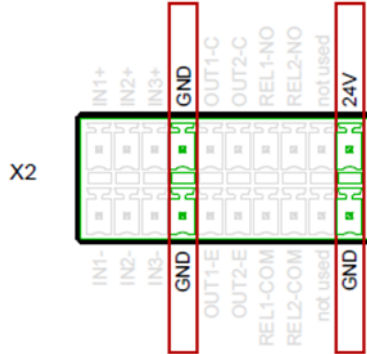


Figure 20: Optional 24VDC external voltage supply

**NOTE:**

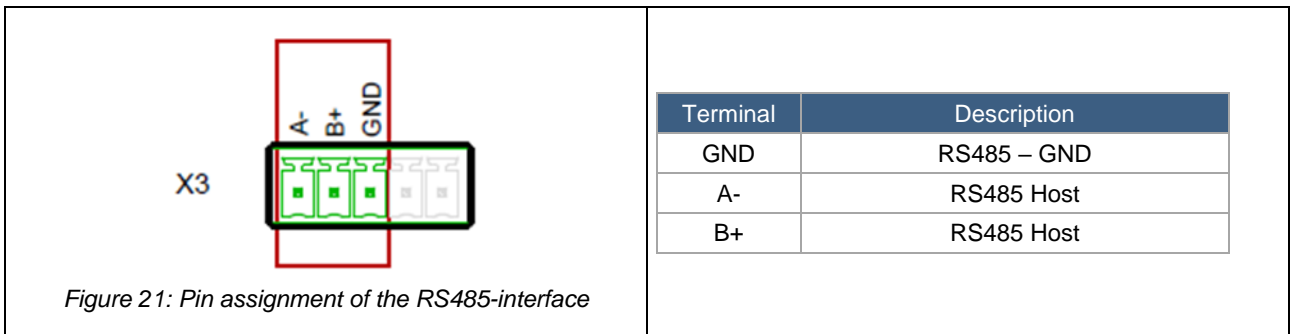
- For the dimensioning of the power supply the power consumption for the external output circuitry must be additional considered to the typical reader power consumption.
- The internal 24VDC voltage on X2 is not protected by the fuse F1.

## 2.9 Interface

### 2.9.1 RS485-Interface X3 (Host)

The RS485-Interface is connected on X3.

The transmission parameters can be configured by means of software protocol.



If required, jumpers J13 and J14 can be used to switch on "pull up" and "pull down" resistors.

Jumper	closed	open
J13	Pull-Down on RS4xx - A	without Pull-Down on RS4xx - A
J14	Pull-Up on RS4xx - B	without Pull-Up on RS4xx - B
J15	Termination resistor	active

Table 9: Jumper RS485 interface

**NOTE:**

The termination resistor can be added with Jumper J15.

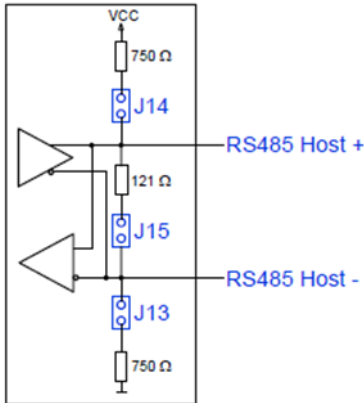


Figure 16: Jumper RS485-Interface

### 2.9.1 RS485-Interface X3 (Peripherie Device / FEIG specific)

The connection of the RS485 interface periphery is reserved for "FEIG specific devices".

It is activated by switching on the "EnableGPC" parameter in the "PeripheryDevice configuration block" (see Manual H20820-2e-ID-B).

	<table border="1"> <thead> <tr> <th>Klemme</th> <th>Beschreibung</th> </tr> </thead> <tbody> <tr> <td>GND</td> <td>RS485 GND</td> </tr> <tr> <td>A-</td> <td>RS485 Peripherie Device</td> </tr> <tr> <td>B+</td> <td>RS485 Peripherie Device</td> </tr> </tbody> </table>	Klemme	Beschreibung	GND	RS485 GND	A-	RS485 Peripherie Device	B+	RS485 Peripherie Device
	Klemme	Beschreibung							
	GND	RS485 GND							
	A-	RS485 Peripherie Device							
B+	RS485 Peripherie Device								

Bild 1: X3 (RS485 Peripherie-Device Interface)

Jumper	geschlossen	offen
J11	Pull-Down an RS4xx - A	ohne Pull-Down an RS4xx - A
J10	Pull-Up an RS4xx - B	ohne Pull-Up an RS4xx - B
J12	Termination resistor	active

Table 10: Jumper for RS485-Peripherie Device

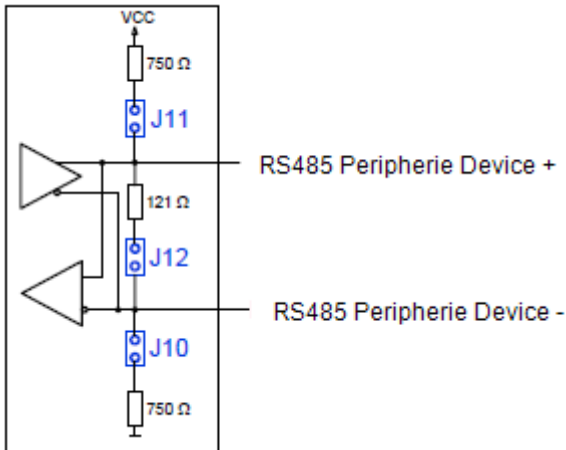


Bild 2: Jumper RS485-Peripherie-Device Interface

### 2.9.1.1 Address assignment of RS485 for bus operation

For bus operation the Reader can be assigned the required bus address via software.

The address is assigned by the host computer. The software is used to assign addresses “0” through “254” to the Reader.

The termination of the RS485 Bus can be configured via software.

#### ① NOTE

Since all Readers are factory set with address „0“, they must be connected and configured one after the other.

### 2.9.2 USB Interface X4 (Host Communication, HID)

- USB socket on terminal X4  
Use standard USB cable, length  $\leq 5$  m
- Data-rate:  $\leq 12$  Mbit (USB Full Speed)
- Connection to external host

**X4**

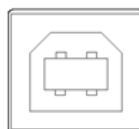


Figure 22: : USB-Interface for host communication



### 2.9.3 USB-Host Interface X5

- USB socket on terminal X5  
Use standard USB cable
- Data-rate  $\leq$  12 Mbit (USB Full Speed)
- A USB Memory Stick can be supported together with the ID ISC.SDK.ACC-FMB08“ SDK.



Figure 23: USB Host interface X5

### 2.9.4 Ethernet-Interface on X1 (10/100 Base-T)

- Connection on X1
- Integrated 10/100 Base-T Network port for an RJ-45
- Automatic “Crossover Detection”

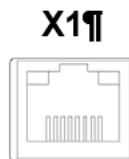


Figure 24: LAN-interface for Host communication

#### 2.9.4.1 Factory configuration of Ethernet interface (TCP/IP protocol)

The reader supports IPv4 and IPv6 protocols.

**NOTE:**

The IPv4 interface is predefined by default.

- Each participant in the network must have its own IP address.
- By default, all readers have a preset IP address.

#### IPv4

Network	Address
Enable_DHCP	true
IPAddress	192.168.10.10
Subnet-Mask	255.255.255.0
GatewayAddress	10001
Hostname	xyz

Table 11: Default setting of the Ethernet interface IPv4

#### IPv6 (tbd)

Netzwerk	Adresse
Enable_DHCP	false
IPAddress	0:0;0;0;0;0;0
Subnet-Mask	0:0;0;0;0;0;0
GatewayAddress	0:0;0;0;0;0;0

Table 12: tbd.

#### ① NOTE

- The Reader TCP/IP interface has a DHCP option (default setting OFF)
- With structured cabling STP CAT 5 cables must be used. This ensures a reliable operation at 10 Mbps or 100 Mbps.

### 3 Operating and Display Elements

#### 3.1 LEDs









LED	color	description
LED V1 "RUN"		<p>„RUN“ (Green LED flashes in a 0,5 s cycle)</p> <ul style="list-style-type: none"> <li>• Proper running of the reader software</li> <li>• Reader initialization after Power on</li> <li>• Reset</li> </ul>
LED V2 "RF-COM" Diagnose 1:		<p>„RF communication“ (Blue LED flashes in a 0,5 s cycle)</p> <ul style="list-style-type: none"> <li>• Error free communication with a transponder on the RF interface</li> <li>• Flashes alternately with V1 after a reset following a software update.</li> <li>• Flashes alternately with V1 if a data error occurred when reading the parameters after a reset.</li> </ul>
LED V3 "PER-COM" Diagnose 2		<p>“Periphery communication” (Yellow LED ON/OFF)</p> <ul style="list-style-type: none"> <li>• ON: A protocol is sent to the gate (via RS485)</li> <li>• OFF: Receiving a protocol response</li> </ul>
LED V4 "EXT-COM" Diagnostic 3		<p>“Host communication” (Yellow LED flashes in a 0,5 s cycle)</p> <ul style="list-style-type: none"> <li>• Sent a protocols to the host (via USB, RS485 or LAN)</li> </ul>
LED V5 "Heartbeat"		<p>“Heartbeat communication” (Yellow LED flashes in a 2,0 s cycle) Heartbeat is set in idle mode</p>
LED V6 "WARNING" Diagnostic 4		<p>“RF warning” (Rote LED ON/OFF)</p> <ul style="list-style-type: none"> <li>• ON: Comes on when there is an error in the RF section of the reader. The error type can be read out via software over the RS485/USB and LAN-Interface.</li> </ul>

Table 13: Definition LED signals

## 4 Radio Approvals

### 4.1 Declaration of Conformity (CE), (UKCA)

	<p><b>Declaration of Conformity (CE)</b></p> <p>Hereby FEIG ELECTRONIC GmbH declares that the radio equipment type ID LRM5400 is in compliance with Directive 2014/53/EU.</p> <p>The full text of the EU declaration of conformity is available at the following internet address:  <a href="https://www.feig.de/en/service/eu-declarations-of-conformity/">https://www.feig.de/en/service/eu-declarations-of-conformity/</a></p>
	<p><b>UKCA Declaration of Conformity</b></p> <p>Hereby FEIG ELECTRONIC GmbH declares that the radio equipment type ID LRM5400 is in compliance with Directive No. 1206 Radio Equipment Regulations 2017.</p> <p>The full text of the UKCA declaration of conformity is available at the following internet address:  <a href="https://www.feig.de/en/service/ukca-declarations-of-conformity/">https://www.feig.de/en/service/ukca-declarations-of-conformity/</a></p>

## 4.2 USA (FCC) and Canada (IC)

Product name:	ID LRM5400
Reader name:	ID LRM5400
FCC ID: IC:	PJMLRM5400 6633A-LRM5400
Notice for USA and Canada	<p>This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.</p> <p>Operation is subject to the following two conditions.</p> <p>(1) this device may not cause harmful interference, and</p> <p>(2) this device must accept any interference received, including interference that may cause undesired operation.</p> <p>Unauthorized modifications may void the authority granted under Federal communications Commission Rules permitting the operation of this device.</p> <p>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.</p> <p>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 :</p> <p>(1) l'appareil ne doit pas produire de brouillage, et</p> <p>(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.</p>

① **NOTE:**

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

### 4.2.1 Label Information

The following information must be placed at the outer side of the housing in which the reader is mounted.

<p><b>Contains FCC ID PJMLRM5400</b></p> <p><b>Contains IC: 6633A-LRM5400</b></p>
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### 4.2.2 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.

When installed as directed, this equipment complies with the FCC radiation exposure limits for general population/uncontrolled exposure.

## 5 Technical Data

Mechanical Data ID LR5400 (module)	
Weight	approx. 0,60 kg
<b>Dimension module</b> (L x W x D)	160 mm x 120 mm x 46 mm (6.3 inch x 4.7 inch x 1.8 inch)
Mechanical Data ID LRM5400 (housing)	
<b>Weight</b>	approx. 1,90 kg
<b>Dimension housing</b> (L x W x D)	320 mm x 180 mm x 110 mm (12.6 inch x 7.1 inch x 4.3 inch)
<b>Protection class</b>	IP54
Electrical Data	
<b>Power supply</b>	24 VDC $\pm$ 15% Noise Ripple : max. 150 mV
<b>Power consumption</b>	max. 47 VA (Dependent on ext. wiring)
<b>Antenna connection</b>	4 x SMA socket (50 $\Omega$ )
<b>Modulation</b>	10% - 30% (Software configurable)
<b>DC Supply at Antenna Connector</b>	8 VDC (max. 150 mA)
<b>Diagnostic Options</b>	internal VSWR-Meter interne temperature monitoring
<b>Outputs:</b> 2 x digital outputs 2 x Relay (2 x NO)	24 VDC / 30 mA 24 VDC / 1 A
<b>Inputs:</b> 3 x digital inputs	5 - 24 VDC / 20 mA
<b>Operating frequency</b>	13,56 MHz
<b>RF-transmitting power</b>	1 W – 8 W (Software configurable with 250 mW steps)
<b>Supported transponder</b>	<ul style="list-style-type: none"> <li>• ISO15693, ISO18000-3-A (EM HF ISO Chips, Fujitsu HF ISO Chips, Infineon my-d, NXP I-Code, STM ISO Chips, TI Tag-it)</li> <li>• ISO18000-3M3 (Upgrade Code erforderlich)</li> <li>• NXP I-Code 1</li> </ul>
<b>Protokoll Modes</b>	<ul style="list-style-type: none"> <li>• ISO Host Mode</li> <li>• BRM (Data filter und Data buffer)</li> <li>• Notification Mode</li> </ul>
<b>Indicator</b>	5 x LED

<b>Interface</b>	<ul style="list-style-type: none"> <li>• RS485</li> <li>• USB - Device</li> <li>• USB – Host</li> <li>• Ethernet (TCP/IP)</li> <li>• (RS485 Peripheriegeräte)</li> </ul>
<b>Environmental conditions</b>	
<b>Temperature range</b>	
In operation	-20°C - + 55°C
Stored	-25°C - + 85°C
<b>Humidity</b>	5% - 80% (non condensing)
<b>Vibration</b>	EN 60068-2-6 10 Hz to 150 Hz 0,075 mm/1 g
<b>Shock</b>	EN60068-2-27 Acceleration: 30 g
<b>Applicable standards</b>	
<b>RF Approval</b>	
Europe	• EN 300 330
UK	• EN 300 330
USA	• FCC 47 CFR Part 15
Canada	• RSS-210
<b>EMC</b>	EN 301 489
<b>Safety</b>	
Low voltage directive	EN 62368-1
Human Exposure	EN 50364

IDENTIFICATION	ID LR(M)5400	
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