

ID LRU500i**UHF Compact Reader**

- UHF Long Range Reader with integrated antenna
- Circular-polarized antenna for any transponder orientation
- Antenna port for additional external antenna
- Up to 10 m read range
- Robust and compact housing for indoor and outdoor use (IP67)
- Integrated signal light (red/green)
- Secure Key Storage for application keys
- Fast and easy mounting and installation
- Up to 2 W ERP transmitting power

**Compact reader for numerous logistical applications**

The LRU500i is the optimal solution for installing RFID reading points in the incoming / outgoing goods area and along conveyor belts.

Thanks to its read range of up to 10 m, the compact reader with integrated antenna and signal light can be used in numerous applications as a "one device solution". By connecting an additional, external antenna, gate and tunnel applications can also be implemented to generate larger reading fields.

Process monitoring using optical signal transmitters

The LRU500i is the optimal solution for installing RFID reading points in the incoming / outgoing goods area and along conveyor belts.

When reading the transponder, the integrated signal light of the reader gives feedback whether e.g. incoming goods are actually stored in the system as ordered products or whether components have the required manufacturing status when fed into the manufacturing process.



UHF Compact Reader with integrated antenna and signal light

Small and powerful UHF RAIN RFID Long Range Reader for
A numerous logistical applications.

Product Details		ID LRU500i	
Mechanical Data			
Housing	Plastic (ASA-PC), Aluminium	Features	RAIN RFID
Dimensions	290 mm x 290 mm x 100 mm (11.4 x 11.4 x 3.9 inch)	Supported transponder types	EPC Class1 Gen2 EPC Class1 Gen2 V2 ISO 18000-6-C ISO 18000-63
Weight	2.800 g	Indicator	Signal light with red/green/blue 10 LEDs to indicate operation and antenna state
Mounting	VESA FDMI MIS-D 100 mm x 100 mm	Network Services	TCP/IP, DHCP
Protection Class	IP 67	Other Features	Anti-Collision, Output of RSSI values and phase angle, Battery-assisted real-time clock, Supports encrypted transponder communication, Secure Key Storage, Config Cloning function
Colour	Anthracite, translucent		
Electrical Data		Environmental Conditions	
Power Supply	12...24 V DC ($\pm 10\%$), PoE+	Temperature range	
Power Consumption	typical 16 W (22 W with PoE+)	- Operation	-25° C up to 55° C
Operating Frequency		- Storage	-25° C up to 85° C
- Variant EU:	865 MHz up to 868 MHz	Humidity	5% to 95% (non-condensing)
- Variant FCC:	902 MHz up to 928 MHz	Vibration	EN 60068-2-6 10 Hz to 150 Hz: 0,075 mm / 1g
Output Power		Shock	EN 60068-2-27 Acceleration: 30 g
- Radiated (int. antenna)	max. 2 W ERP	Applicable Standards	
- Conducted (ext. antenna)	max. 1 W, configurable in steps of 100 mW	Radio Regulation	
Antenna Connector for external antenna	1x R-TNC-Jack (50 Ω) (Reverse-TNC)	- Europe	EN 302 208
RF-Diagnosis	RF-channel monitoring, Antenna SWR control, Internal Overheating Protection	- USA	FCC 47 CFR Part 15
Outputs		- Canada	IC RSS-GEN, RSS-210
- 2 Optocoupler*	max. 24 V DC / 20 mA	- India	BIS IS 13252 Part 1
- 2 Relays*	max. 24 V DC / 1 A switching current, 2 A permanent current	EMC	EN 301 489
Inputs		Safety	
- 2 Optocoupler	max. 24 V DC / 20 mA	- Low Voltage	EN 62368
Interfaces		- Human Exposure	EN 50364
- Variant BD:	Rs485, USB (On-The-Go), Wiegand	Others	RoHS, WEEE
- Variant PoE:	Ethernet, USB (On-The-Go)		
Protocol-Modes	ISO Host Mode, Scan Mode, Notification Mode, Buffered Read Mode		

* Only applies to variant PoE.

Variant BD offers no optocoupler output and only one relay output.

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