

ID ANT.U LOCFIELD®

## LOCFIELD® UHF Antenna

- Fast and easy installation
- Antenna can be easily shaped in any form that is needed
- Antenna is perfectly suitable for metallic environments
- No reflections and interferences
- Tuning is very simple



### RFID reading zone can be designed individually

ID ANT.U LOCFIELD® antenna allows you to design your tailored UHF RFID reading zone. As a result, RFID technology can also be applied where previously a large number of required antennas made the use uneconomical.

The ID ANT.U LOCFIELD® antenna can be formed into almost any shape: straight lines, meandering waves, circles, etc. Thus, numerous, formerly challenging applications can be realized, such as e.B. intelligent shelves, RFID in complex machines or on doors and passageways.

It is only important to avoid that the antenna touches itself, as this can lead to power losses. Likewise, the antenna should not be applied directly to metallic substrates.

### Easy to use - even for non-engineers

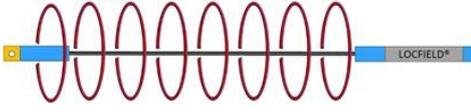
The handling of the antenna is very simple. The antenna is moved until the desired reading zone is clearly defined. The required reading range is then achieved by choosing the reader itself or by adjusting the reader's RF performance.

The ID ANT.U LOCFIELD® antenna convinces above all by its unbeatable flexibility. Available in a total of 4 variants, it can be used almost anywhere and combined with readers of different strengths.

The diverse fields of application include logistics, retail, industrial manufacturing, healthcare, aerospace or automotive.

## UHF LOCFIELD® Antenna for individually tailored RFID reading zones

The flexible antenna in different lengths can be used variably and can be formed into almost any shape.

Technical data		ID ANT.U LOCFIELD® Antenna																							
Antenna length	Depending on the respective variant (see table below)																								
Impedance	50 Ω	<table border="1"> <thead> <tr> <th>Active length</th> <th>Total length</th> <th>∅</th> <th>Variant</th> </tr> </thead> <tbody> <tr> <td>0.37 m</td> <td>0.80 m</td> <td>2.8 mm</td> <td>037-080-28-EU/FCC</td> </tr> <tr> <td>1.00 m</td> <td>1.50 m</td> <td>2.8 mm</td> <td>100-150-28-EU/FCC</td> </tr> <tr> <td>2.00 m</td> <td>2.50 m</td> <td>2.8 mm</td> <td>200-250-28-EU/FCC</td> </tr> <tr> <td>2.00 m</td> <td>3.00 m</td> <td>5.0 mm</td> <td>200-300-50-EU/FCC</td> </tr> </tbody> </table>				Active length	Total length	∅	Variant	0.37 m	0.80 m	2.8 mm	037-080-28-EU/FCC	1.00 m	1.50 m	2.8 mm	100-150-28-EU/FCC	2.00 m	2.50 m	2.8 mm	200-250-28-EU/FCC	2.00 m	3.00 m	5.0 mm	200-300-50-EU/FCC
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Cable diameter	2.8 mm / 5 mm (see table)																								
Reading range	1 cm - 150 cm*																								
Transmitting power	+33 dBm (2 W)																								
Gain	-7 dBi																								
Beam angle																									
Polarization	linear; Transponders can be read in almost any orientation by a suitable arrangement of the antenna																								
Antenna connector	SMA (male)																								
VSWR	< 1.8:1																								
Operating frequencies	865 - 868 MHz (EU) 902 - 928 MHz (FCC)																								
Temperature range	Operation																								
	-20°C to 65°C																								

Suitable to be used with following FEIG UHF readers:



UHF Long Range Readers  
ID LRU1002  
ID LRU3000  
ID LRU3500



UHF Long Range Reader  
ID LRU1002X



UHF Mid Range Reader  
ID MRU102



UHF Mid Range Reader Module  
ID MRMU102

\* Depending on the transponder, antenna variant and reader used

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