

PRODUCT DATASHEET

iID® Read Write Interfaces

M8 UHF ANTENNA

UHF antenna for industrial application

The integrated industry antenna is designed for RFID UHF applications and can be used under harsh industrial environments. This device is available with standard RF connectors (MMCX). It is designed as part of iID®4000 *microsensys* system.

microsensys offers an attractive component platform for RFID solutions – from transponder over smart readers to practical software tools

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RFID in motion

ANT UHF M8-001

RFIDSystem:		UHF, iID®4000
Standards:	especially designed for ISO 18000—6 RFID reader with external antenna	
Chip Solutions:	no requirements, independent from RFID chip type practicable for small closed coupling UHF-TAGs	
Basics:	closed coupling industrial antenna near field	
RFID Band:	868 MHz EU RFID	
Application:	harsh industrial environment	
Operating Distance:	0 ... 20 mm	depending on transponder type and reader type
Frequency Range:	865 MHz - 870 MHz	
Field Direction:	from front side magnetic field	
Impedance:	50 Ohm	
VSWR:	<1.5:1	
RF Connector:	standard MMCX female standard SMA female(using included adapter)	
Max. RF Power:	2 W	
Mechanicals:		
Device Size:	D8 mm (M8x1.0), L 17 mm	
Casing Material:	PA66, epoxy filled	
Mounting:	mountable with 2 plastic nuts (included), please note metal environments	
Operation Temperature:	-10°C ... +70°C	
Storage Temperature:	-25°C ... +85°C	
Protection Class:	IP 65, for industrial use	

Type:	41.40.002.01	41.40.002.02	
RF:	near field	near field	
RFID Band:	868 (ETSI, lower band)	915..928 (FCC, upper band)	MHz
RFID Frontend Controller:	no integrated electronics, antenna only		

*) in development or delivery only for special projects