

TN-M30-IOL2-H1141 HF Read/Write Head – IO-Link



Technical data

TN-M30-IOL2-H1141		
100012162		
CE UKCA cULus		
EU/RED: Europe UK SI 2017/1206: United Kingdom FCC: USA IC: Canada		
1132 VDC		
≤ 50 mA		
700 mA For: 1 ms		
Inductive coupling		
HF RFID		
13.56 MHz		
ISO 15693 NFC Typ 5		
NXP I-Code SLI-X NXP I-Code SLI-S NXP I-Code SLIX2 EM4233SLIC Fujitsu MB89R118		
yes		
4-wire, Read/Write, IO-Link		
Non-flush		
-25+80 °C		
Threaded barrel, M30 x 1.5		
Threaded barrel, M30 x 1.5 63.5 mm		



Features

- Threaded barrel, M30 x 1.5
- Chrome-plated brass
- Process value in 32-byte IO-Link telegram
- Operation in SIO mode possible
- RSSI value output
- Alarm outputs, parameterizable (e.g. for RSSI threshold)
- Password function for accessing the tag (separate hardware must be used to enable the password function)
- Operating hours counter
- Male connector, M12 × 1, 4-pin

Pin Assignment

<u>1 BN</u>	L+
4 BK	C/Q1
2 WH	Q2
3 BU	L-

Functional principle

The HF read/write devices operating at a frequency of 13.56 MHz form a transmission zone, the size of which (0...500 mm) varies depending on the combination of read/write device and tag used.

The read/write distances mentioned here only represent standard values measured under laboratory conditions, free from any influences caused by surrounding materials.

The read/write distances of the tags for mounting in metal TW-R**-M(MF) were determined in metal.

Attainable distances may vary by up to 30 % due to component tolerances, mounting conditions, ambient conditions and material qualities (especially when mounted in metal). Testing of the application under real operating conditions is therefore essential, especially with on-the-fly reading and writing!



Technical data

Housing material	Metal, CuZn, Chrome-plated
Active area material	Plastic, PBT, yellow
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
Electrical connection	M12 × 1
MTTF	756 years acc. to SN 29500 (Ed. 99) 20 °C
Power-on indication	LED, Green
Included in delivery	Accessories
IO-Link	
IO-Link specification	V 1.1
IO-Link port type	Class A
Programming	IO-Link, PACTware, parameterization tag
Communication mode	COM 3 (230.4 kBaud)
Process data width	256 bit
Minimum cycle time	10 ms
Function pin 4	IO-Link/SIO
Function Pin 2	SIO
Transmission rate	230.4 kbaud
Packaging unit	1

Mounting instructions/Description



Diameter active Ø 30 mm area B non-flush mounting

Accessories







Accessories

Dimension drawing	Туре	ID	
M12x1 e15 5 14 + 115 + + 182 + + 182 + + 182 + + 182 + + 182 + + 182 + + 182 + + 182 + + 182 + + + 182 + + + 182 + + + + + + + + + + + + + + + + + + +	RKC4.4T-2-RSC4.4T/TXL	6625608	Extension cable, M12 female connector, straight, 4-pin to M12 male connector, straight, 4-pin; cable length: 2 m, jacket material: PUR, black; cULus approval; other cable lengths and versions available, see www.turck.com

Accessories

Dimension drawing	Туре	ID	
	TBEN-S2-4IOL	6814024	Compact multiprotocol I/O module, 4 IO-Link Master 1.1 Class A, 4 universal
			PNP digital channels 0.5 A
PI 63 C2 C1 C0 X1 12 17.9 1 P2 X2 1 P2 X2			