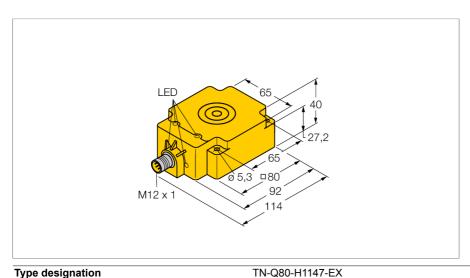


Ident-No.

Ambient temperature

Storage temperature





	Rectangular,	height 40	mm
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- Active face on top
- Plastic, PBT-GF30-VO

.../S2503 Connectors



Connector .../S2500

<u>_</u> _ 1 BN	+ ا
3 BL	J _
-> 4 W	H Data
2 Bk	(Data
_	

Connector .../S2501

1 BN	+
3 BU	_
4 BK	Data
2 WH	Data

Ident-No (TUSA)	M7030302
Mounting conditions	Non-flush, flush mountable

-25...+70 °C

For explosion hazardous areas see instruc-

tion leaflet

7030302

For explosion hazardous areas see instruc-

tion leaflet

Rectangular, Q80

Device marking	ⓑ II 3G Ex nA II T4 II 3D Ex tD A22 IP67
	T135°C

Approval acc. to BVS 09 ATEX E 122 X

Operating voltage	1030 VDC
DC rated operational current	≤ 80 mA
Data transfer	inductive coupling
Operating frequency	13.56 MHz
Radio communication and protocol standards	ISO 15693
Read/Write distance max.	118 mm
Output function	4-wire, Read/Write
Suitable for bus mode on TBEN-*	no

Design **Dimensions** 92x 80x 40mm Housing material Plastic, PBT-GF30-V0, Yellow

Active area material Plastic

Electrical connection Connector Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms) Protection class

IP67 MTTF 248 years acc. to SN 29500 (Ed. 99) 40 °C

Power-on indication LED green SC-M12/3GD Included in delivery

Packaging unit 1 Remark to product ATEX

Functional principle

The HF read/write heads 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 head and data carrier.

The read/write distances mentioned here only represent standard values measured under laboratory conditions.

The read/write distances of the data carriers 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 read/write on-the-fly!





Data carrier

Dimensions	Type designation	Read-write	Read-write distance		Transfer zone	
	ldent - no.	Recommend- ed (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	[mm]
	TW-R16-B128-EX 7030241	20	52	60	30	240
312,5						
	TW-R20-B128-EX	35	65	72	36	240
	7030242 TW-R20-K2-EX	25	52	70	35	240
2.8 1	7030245					
	TW-R30-B128-EX	35	72	80	40	240
	7030243 TW-R30-K2-EX	35	67	80	40	240
0 5.2 0 30	7030246					
	TW-R50-B128EX	65	118	120	60	240
ø 5,2	7030244 TW-R50-K2-EX	50	100	110	55	240
333	7030247					
	TW-R50-MF-K2-EX 7030248	20	35	48	24	240
0 4,9 0 50 4,5						





Operating manual

Intended use

This device fulfills the directive 94/9/EC and is suited for use in explosion hazardous areas acc. to EN60079-0, -15 and EN61241-0, -1

For use in explosion hazardous areas conform to classification

II 3 G and II 3 D (Group II, Category 3 G, electrical equipment for gaseous atmospheres and category 3 D, electrical equipment for dust atmospheres).

Marking (see device or technical data sheet)

Local admissible ambient temperature

-10...+50 °C

Installation / Commissioning

These devices may only be installed, connected and operated by trained and qualified staff. Qualified staff must have knowledge of protection classes, directives and regulations concerning electrical equipment designed for use in explosion hazardous areas and if necessary, of the regulations applicable to safety-related systems.

Please verify that the classification and the marking on the device comply with the actual application conditions.

Installation and mounting instructions

Avoid static charging of cables and plastic devices. Please only clean the device with a damp cloth. Do not install the device in a dust flow and avoid build-up of dust deposits on the device.

Special conditions for safe operation

Special conditions indicated with the X in the approval should be observed to ensure safe operation.

Do not disconnect the plug-in connection or cable under voltage.

Please attach a warning label permanently in an appropriate fashion in close proximity to the plug-in connection with the following inscription: Nicht unter Spannung trennen / Do not separate when energized.

The read/write head should be protected against mechanical impacts of > 4 J resp. 2 J in the area near the lens.

The read/write head should be protected against ultraviolet light.

service / maintenance

Repairs are not possible. The approval expires if the device is repaired or modified by a person other than the manufacturer. The most important data from the approval are listed.