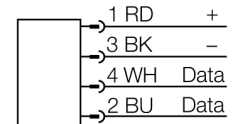
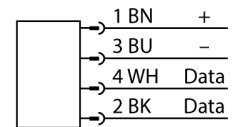


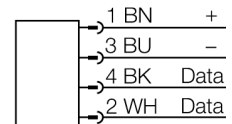
.../S2503 Connectors



Connector .../S2500



Connector .../S2501



Type designation	TNLR-Q80-H1147-EX
Ident-No.	7030303
Remark to product	ATEX
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
Electrical data	
Operating voltage	19.2...28.8 VDC
DC rated operational current	≤ 90 mA
Data transfer	Inductive coupling
Technology	HF (13.56 MHz)
Operating frequency	13.56 MHz
Radio communication and protocol standards	ISO 15693
Read/Write distance max.	165 mm
Output function	4-wire, Read/Write
Interface	Connection only via Turck system components
Mechanical data	
Mounting conditions	Non-flush, flush mountable
Ambient temperature	-25...+70 °C For explosion hazardous areas see instruction leaflet
Design	Rectangular, Q80
Dimensions	92x 80x 40mm
Housing material	Plastic, PBT-GF30-V0, Yellow
Active area material	Plastic
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
Electrical connection	Connector
MTTF	248 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
Included in delivery	SC-M12/3GD
Packaging unit	1

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.



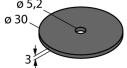
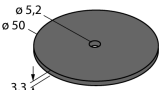
The read/write distances mentioned here only represent standard values measured under laboratory conditions.

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 Ident - no.	Read-write distance		Transfer zone		Minimum distance between two read-write heads [mm]
		Recommend- ed (mm)	max. [mm]	length max. [mm]	width offset max. [mm]	
	LOGI TAG 161 SLIX 100002352	50	85	90	45	240
	IN TAG 200 SLIX 100002354 IN TAG 200 2K FRAM 100002358	50 40	88 75	92 84	47 42	240 240
	IN TAG 300 SLIX 100002355 IN TAG 300 2K FRAM 100002359	60 60	115 98	116 104	58 52	240 240
	IN TAG 500 SLIX 100002357 IN TAG 500 2K FRAM 100002360	80 90	165 144	168 150	84 75	240 240

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)

⊕ II 3G and Ex nA II T4 acc. to EN60079-0:2006 and EN60079-15:2005 and ⊕ II 3D Ex tD A22 IP67 T135°C acc. to EN61241-0:2006 and EN61241-1:2004

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.