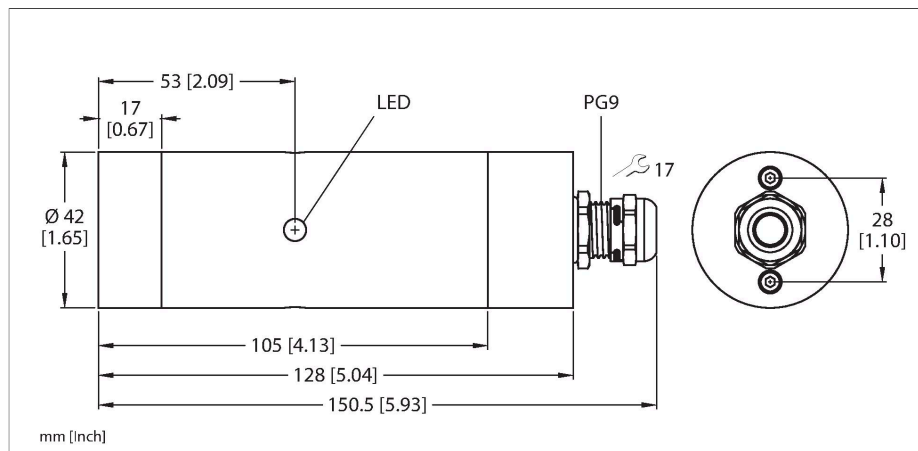


# TN-R42TC-EX

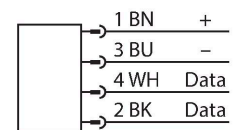
## ATEX Read/Write Head



### Features

- Smooth barrel
- Ex e terminal chamber with tension springs
- Stainless steel housing V2A
- Front cap made of liquid crystal polymer
- Laser engraved label, permanently legible

.../S2500 Connectors



### Technical data

Type	TN-R42TC-EX
ID no.	100020166
Device marking	Ⓔ II 2G Ex d IIC T6
<b>Electrical data</b>	
inrush current	700 mA For: 1 ms
Data transfer	Inductive coupling
Technology	HF (13.56 MHz)
Operating frequency	13.56 MHz
Radio communication and protocol standards	ISO 15693 NFC Typ 5
Output function	4-wire, Read/Write
<b>Mechanical data</b>	
Mounting conditions	Non-flush
Ambient temperature	-25...+70 °C
Dimensions	150.5 mm
Housing diameter	Ø 42 mm
Active area material	Plastic, PA6
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
Electrical connection	Terminal chamber
Power-on indication	LED, Green
Packaging unit	1

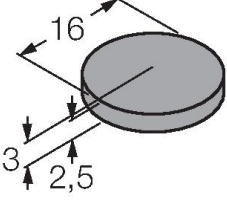
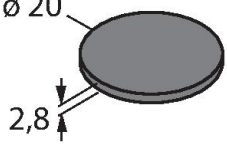
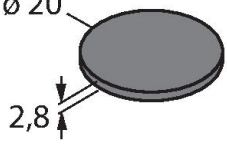
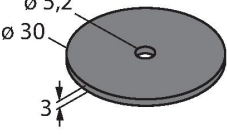
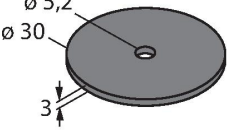
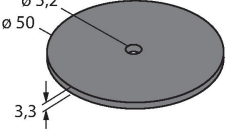
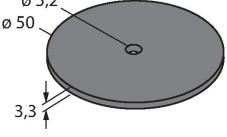
### Functional principle

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 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) 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!

Dimensions	Type designation	Read-write distance		Transfer zone		Minimum distance between two read-write heads [mm]
		Ident - no.	Recommended (mm)	max. [mm]	length max. [mm]	
	LOGI TAG 161 SLIX 100002352	12	23	20	10	90
	IN TAG 200 SLIX 100002354	15	27	20	10	90
	IN TAG 200 2K FRAM 100002358	15	22	20	10	90
	IN TAG 300 SLIX 100002355	13	30	32	16	90
	IN TAG 300 2K FRAM 100002359	15	27	32	16	90
	IN TAG 500 SLIX 100002357	20	43	46	23	90
	IN TAG 500 2K FRAM 100002360	15	33	36	18	90

## Operating Instructions

Intended use

The EC-type examination certificate and the operating instructions included in the delivery have to be read before commissioning and the included notes must be observed on all accounts.

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For use in explosion hazardous areas conform to classification

II 2 G (Group II, Category 2 G, electrical equipment for gaseous atmospheres).

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Marking (see device or technical data sheet)

 II 2G Ex d IIC T6 acc. to EN60079-0 and EN60079-1

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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.

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