

RFID Transponder

IPC03-54-T8

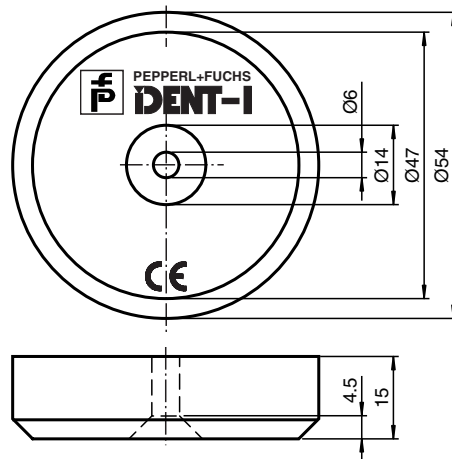


- Battery-free data carrier
- 32 bit fixcode
- 928 bits memory available
- Readable and writable from both sides
- With extended temperature range up to 120 °C (248 °F)
- Degree of protection IP67
- Mounting holes for simple installation

Data carrier



Dimensions



Technical Data

General specifications

Operating frequency	125 kHz
Transfer rate	2 kBit/s
Distance	distance tables, see introduction

Memory

Chip Type	EM4450 Titan (EM Microelectronic)
EEPROM	928 Bit
Read cycles	unlimited
Write cycles	> 100000
Data retention period	10 years at 55 °C (131 °F)

Directive conformity

Radio equipment	
Directive 2014/53/EU	EN 300330
RoHS	
Directive 2011/65/EU (RoHS)	IEC/EN 63000

Standard conformity

Degree of protection	EN 60529
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Release date: 2021-11-12 Date of issue: 2021-11-12 Filename: 122873_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

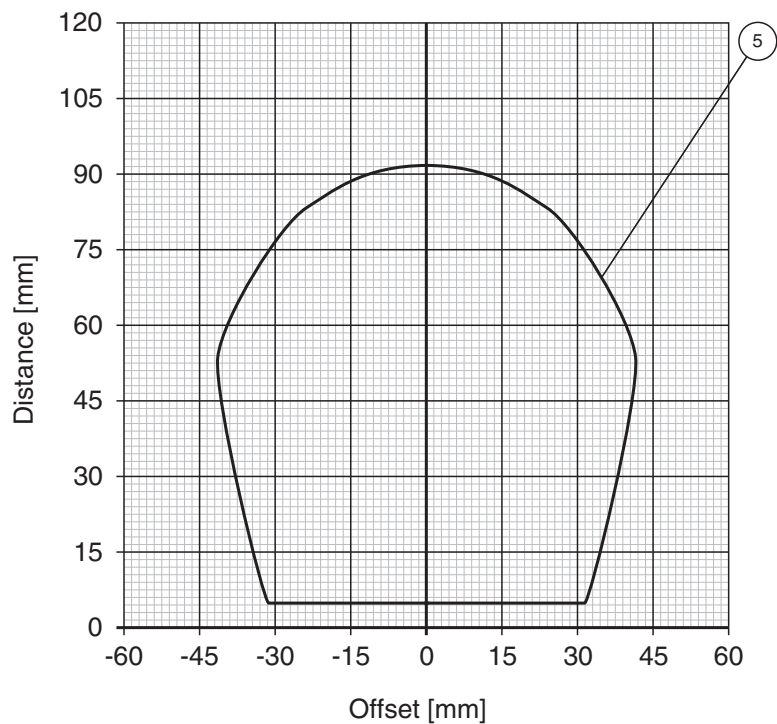
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

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Technical Data

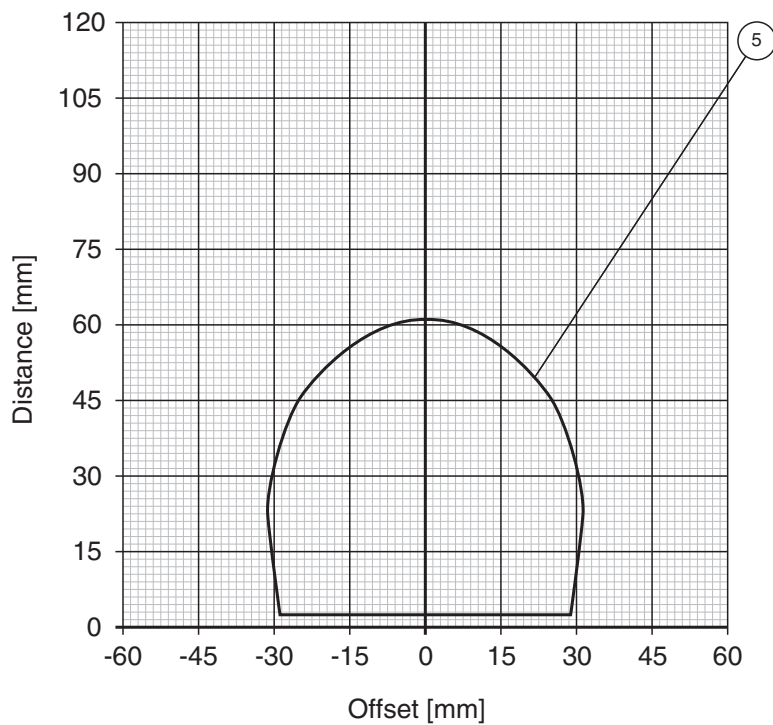
RFID	ISO/IEC 18000-2	
Ambient conditions		
Ambient temperature	-40 ... 120 °C (-40 ... 248 °F)	
Storage temperature		-40 ... 120 °C (-40 ... 248 °F)
Mechanical specifications		
Housing height		15 mm
Housing diameter	54 mm	
Degree of protection		IP67 according to EN 60529
Material		
Housing		Polyurethane (PUR)
Installation		
On metal		yes
In air	yes	
Construction type		Cylindrical

Reading range in air IPC03-54T8



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Reading range on steel IPC03-54T8



- | | | | |
|---------------|-------------|--------------|--------------|
| ① IPH-18GM-V1 | ③ IPH-F61 | ⑤ IPH-FP-V1 | ⑦ IPT1-FP-V1 |
| ② IPH-30GM-V1 | ④ IPH-L2-V1 | ⑥ IPH-F15-V1 | |

Application

The transponder can be read and written from either side.

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