

RFID Transponder

IPC03-50P

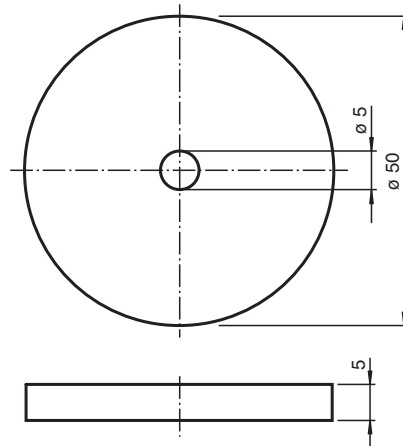


- Battery-free data carrier
- 32 bit fixcode
- 928 bits memory available
- Readable and writable from both sides
- Mounting holes for simple installation
- Degree of protection IP67 / IP68

Data carrier



Dimensions



Technical Data

General specifications		
Operating frequency		125 kHz
Transfer rate		2 kBit/s
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
RFID		ISO/IEC 18000-2

Release date: 2024-07-10 Date of issue: 2024-07-10 Filename: 181531_eng.pdf

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

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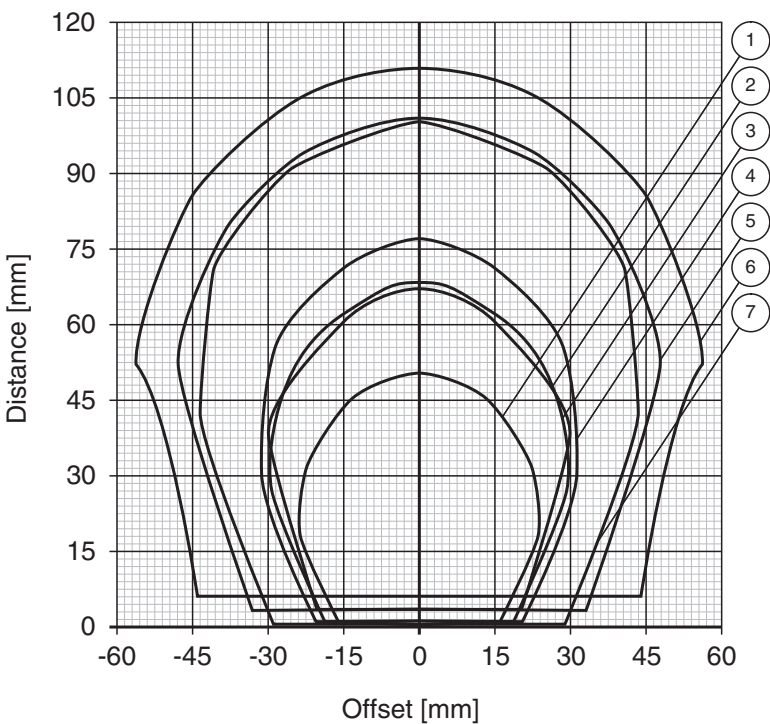
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Technical Data

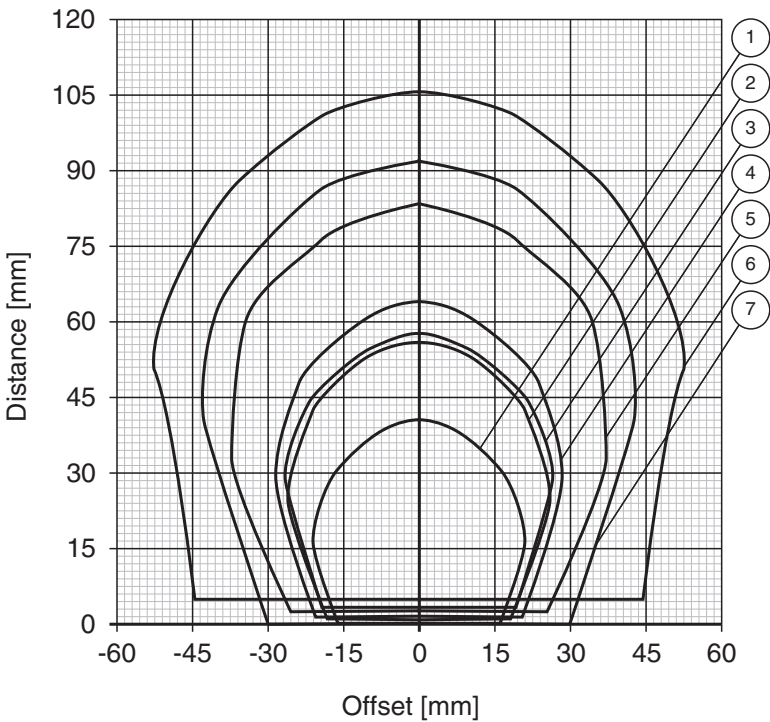
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 90 °C (-40 ... 194 °F)
Mechanical specifications		
Degree of protection		IP67 / IP68
Material		
Housing		PC (Polycarbonate)
Encapsulation compound		Epoxy
Installation		
On metal		yes
In air		yes
Dimensions		
Height		5 mm
Height tolerance		± 0.5 mm
Diameter		50 mm
Diameter tolerance		± 1 mm
Construction type		Cylindrical

Reading range in air IPC03-50P



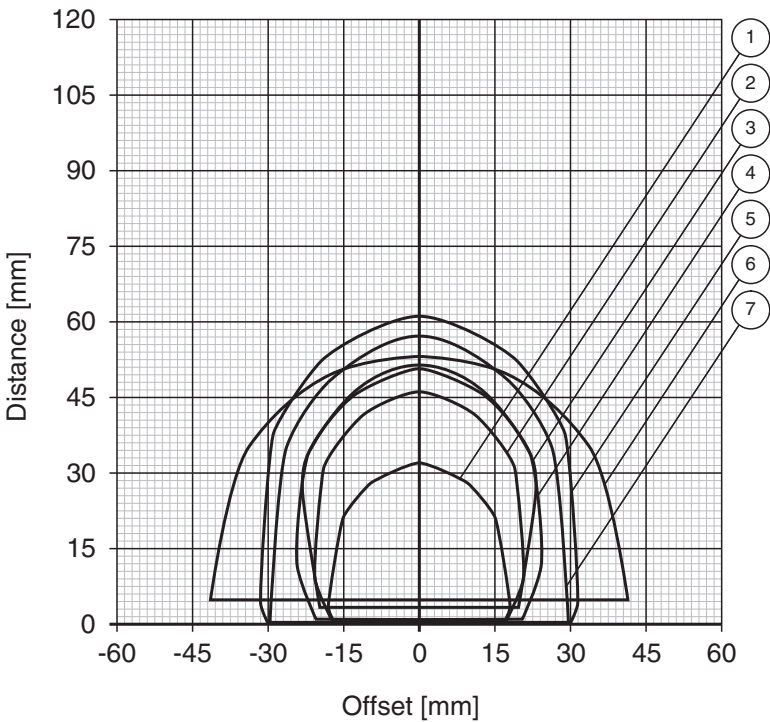
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Writing range in air IPC03-50P



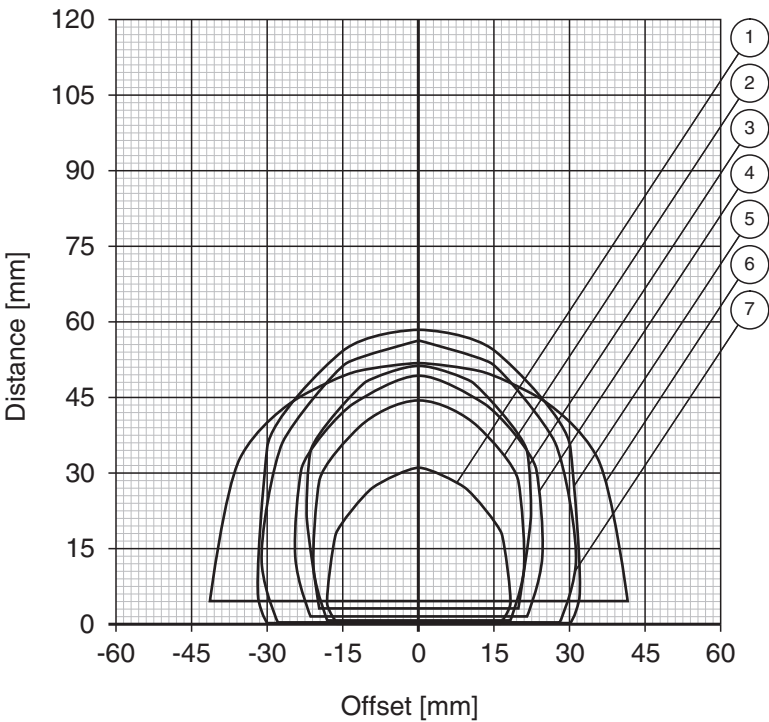
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Reading range on aluminium IPC03-50P



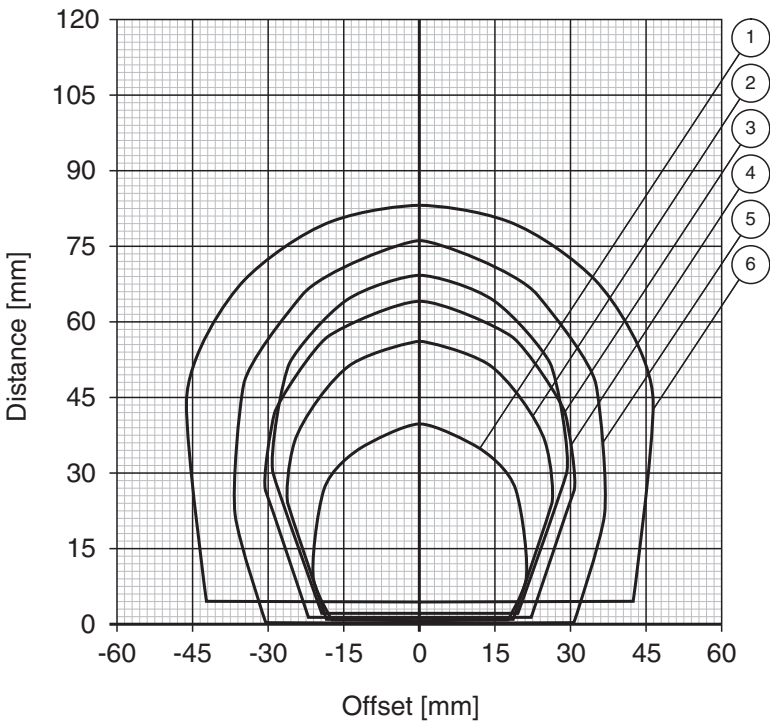
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Writing range on aluminium IPC03-50P



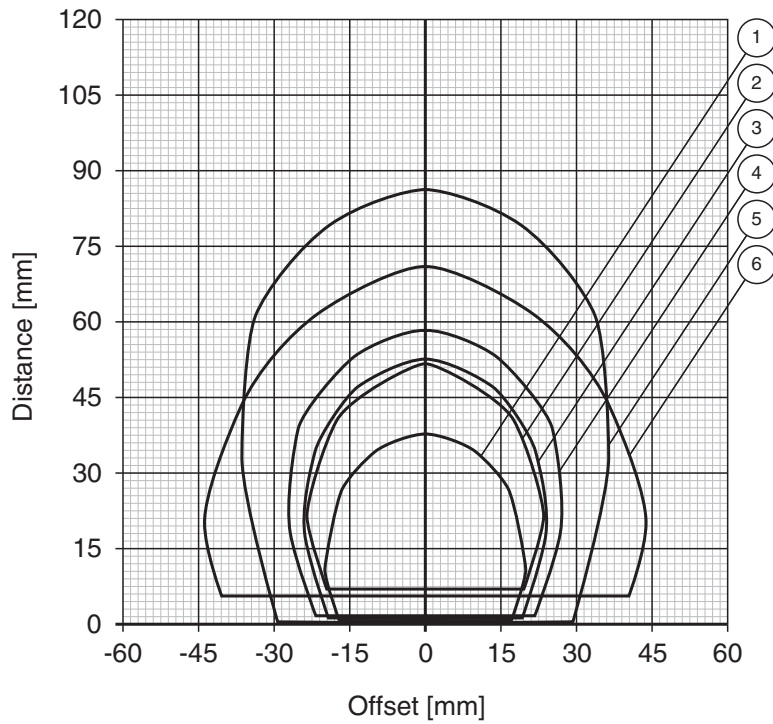
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Reading range on steel IPC03-50P



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Writing range on steel IPC03-50P



- | | | | |
|---------------|-------------|--------------|--------------|
| 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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