



# RFID Transponder

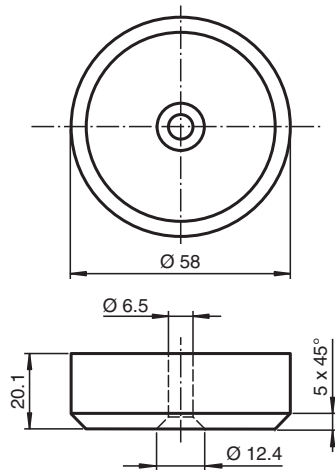
## IPC03-58

- Battery-free data carrier
- 32 bit fixcode
- 928 bits memory available
- Degree of protection IP67
- Mounting holes for simple installation
- High resistance against water, chemicals, transformer oil, petrol and heating oil

Data carrier



### Dimensions



### Technical Data

<b>General specifications</b>	
Operating frequency	125 kHz
Transfer rate	2 kBit/s
<b>Memory</b>	
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)
<b>Directive conformity</b>	
Radio equipment	
Directive 2014/53/EU	EN 300330
RoHS	
Directive 2011/65/EU (RoHS)	IEC/EN 63000
<b>Standard conformity</b>	
Degree of protection	EN 60529
RFID	ISO/IEC 18000-2

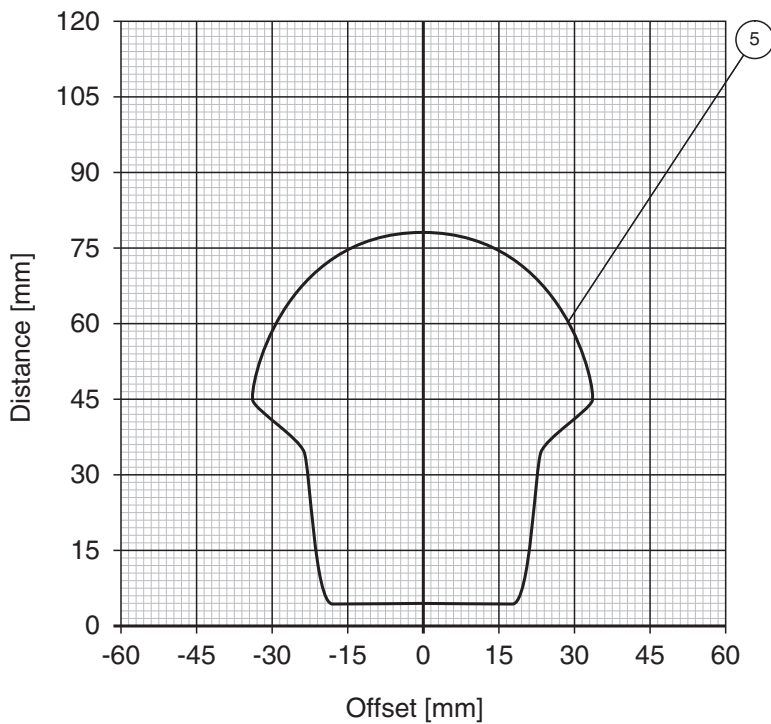
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

**Technical Data**

<b>Ambient conditions</b>	
Ambient temperature	-25 ... 85 °C (-13 ... 185 °F)
Storage temperature	-25 ... 120 °C (-13 ... 248 °F)
<b>Mechanical specifications</b>	
Housing height	20.1 mm
Housing diameter	58 mm
Degree of protection	IP67
Material	
Housing	PA 6 (Polyamid)
Encapsulation compound	Polyurethane (PUR)
<b>Installation</b>	
On metal	yes
In air	yes
Construction type	Cylindrical

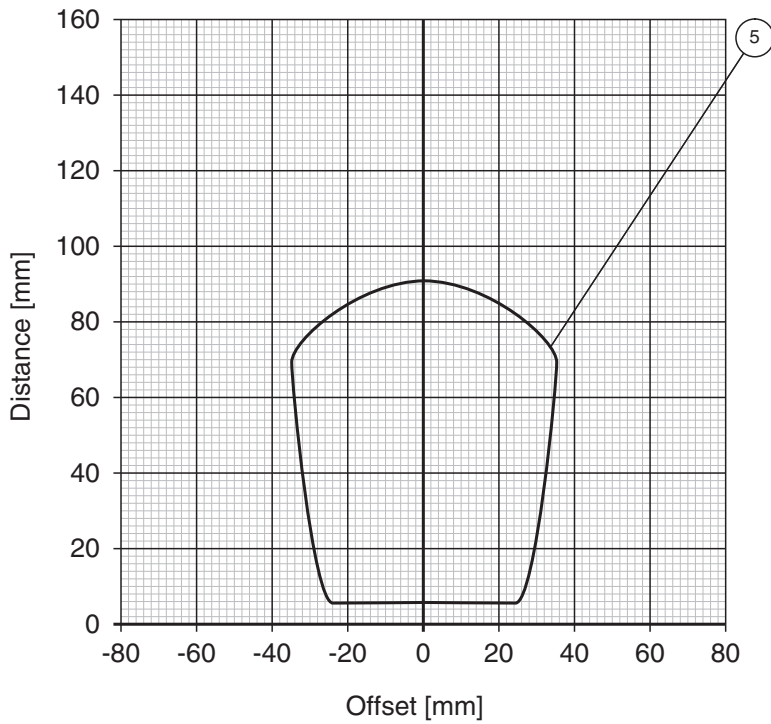
Reading range in air IPC03-58



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Writing range in air IPC03-58



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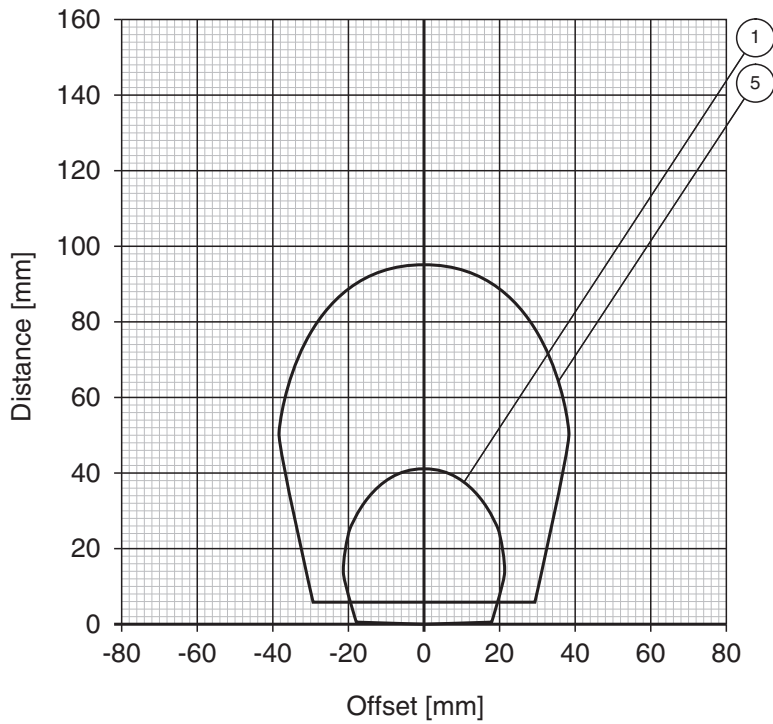
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Reading range on aluminium IPC03-58



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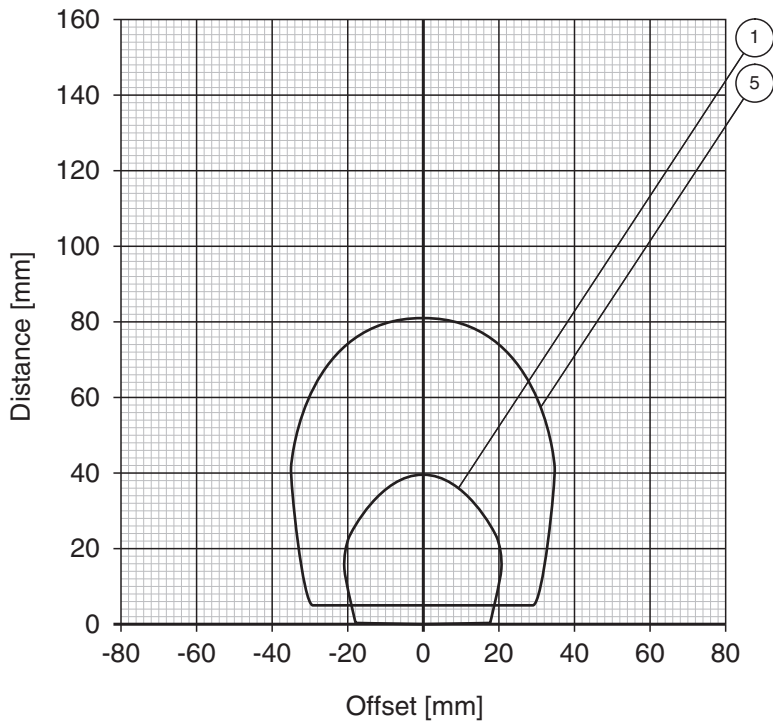
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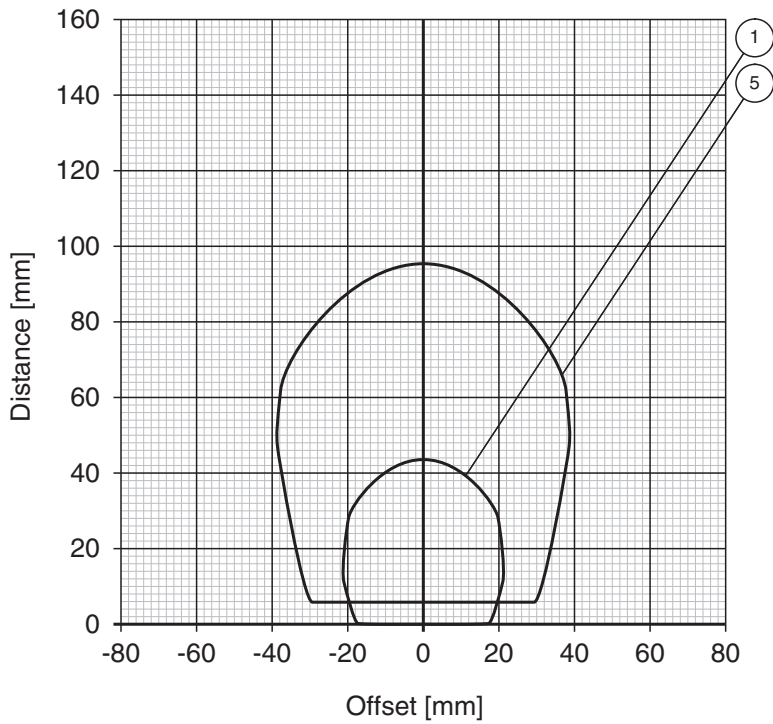
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Reading range on steel IPC03-58



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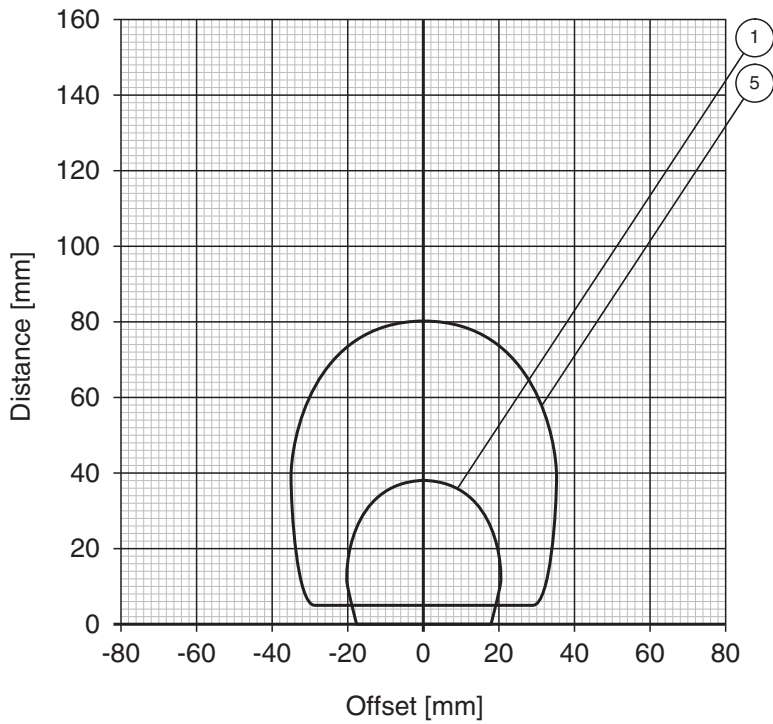
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Writing range on steel IPC03-58



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

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## Mounting

The surface containing the text must face the read/write head.

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