

RFID Transponder

IPC03-20P

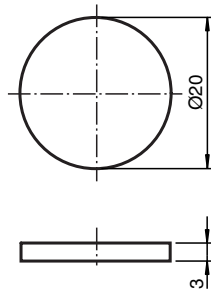


- Battery-free data carrier
- 32 bit fixcode
- 928 bits memory available
- Readable and writable from both sides
- Potted housing
- Degree of protection IP67 / IP68 / IP69K

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: 2021-11-12 Date of issue: 2021-11-12 Filename: 199450_eng.pdf

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

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Technical Data

Ambient conditions

Ambient temperature	-20 ... 85 °C (-4 ... 185 °F)
Storage temperature	-20 ... 85 °C (-4 ... 185 °F)

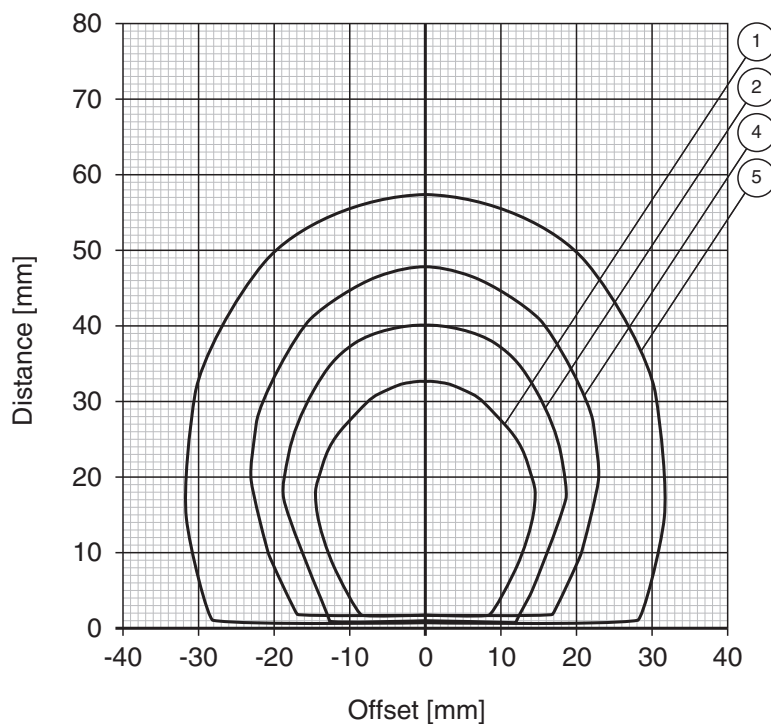
Mechanical specifications

Housing height	3 mm
Housing diameter	20 mm
Degree of protection	IP68 / IP69K
Material	
Housing	PC (Polycarbonate)
Encapsulation compound	Epoxy

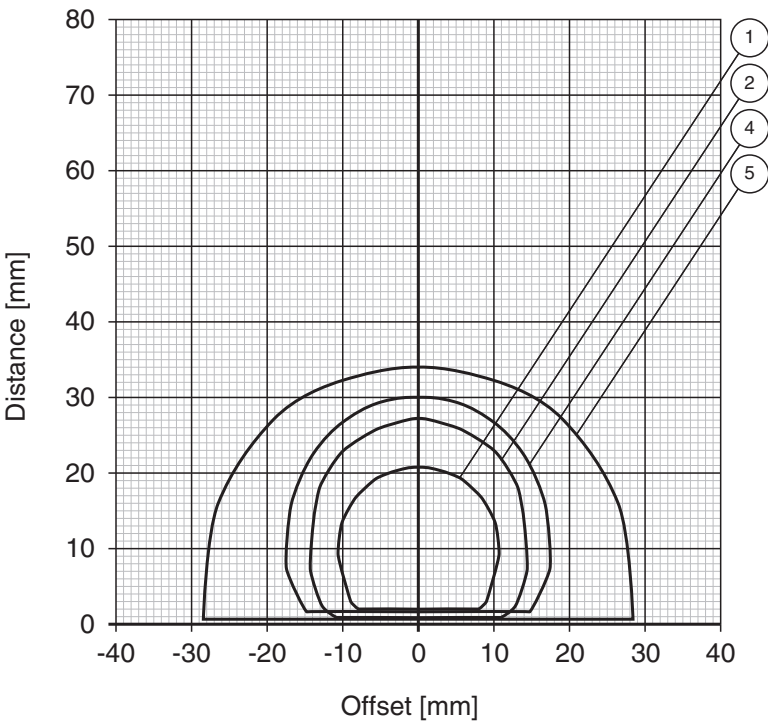
Installation

In air	yes
Construction type	Cylindrical

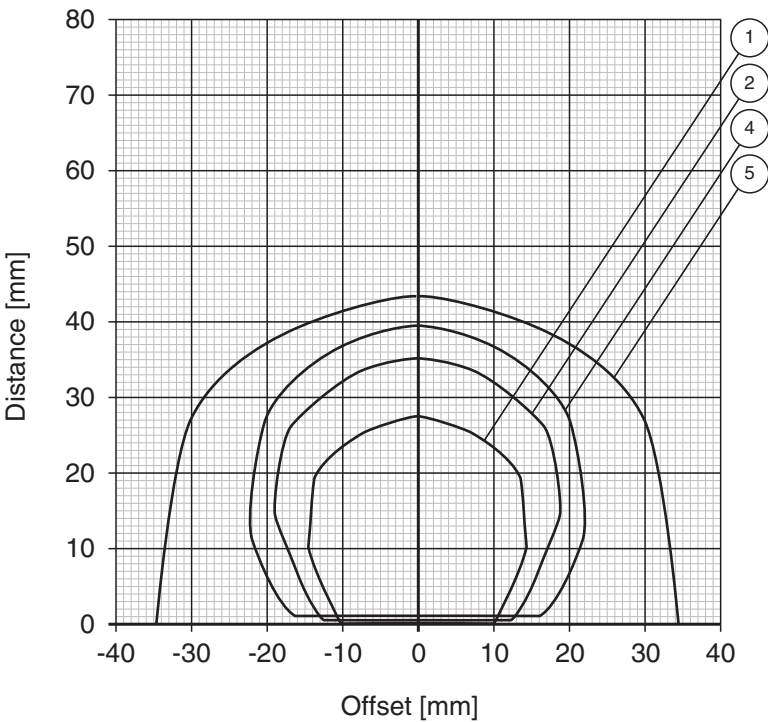
Reading range in air IPC03-20..



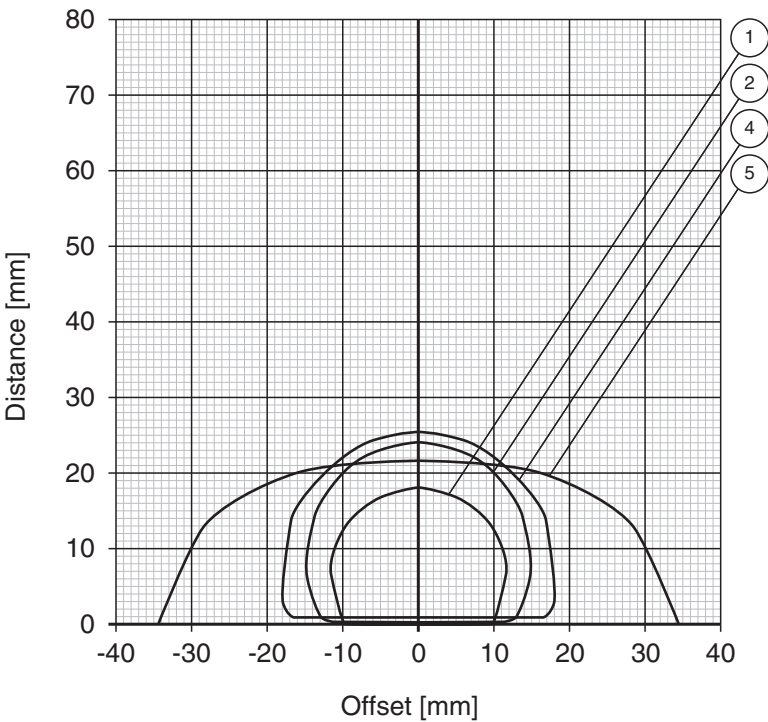
Writing range in air IPC03-20..



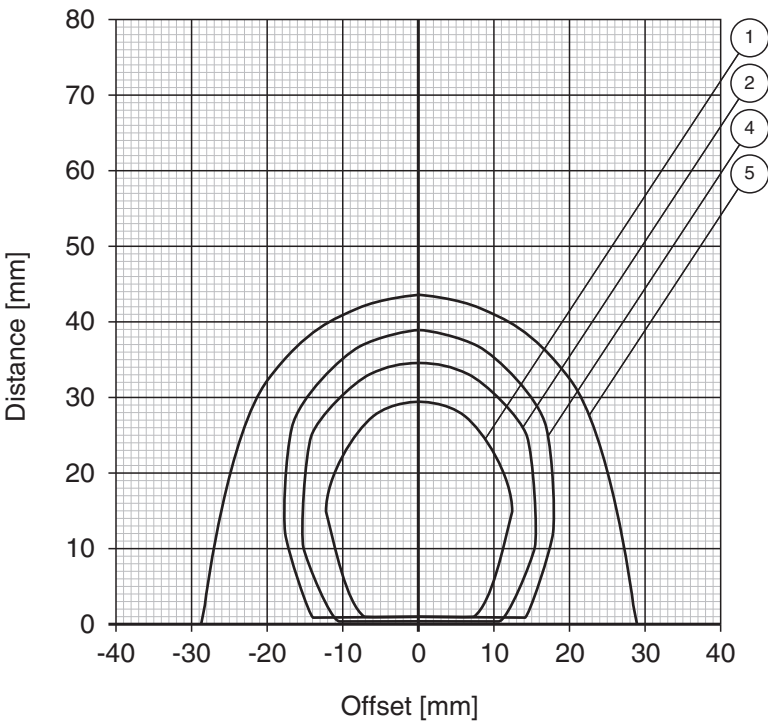
Reading range on aluminium IPC03-20..



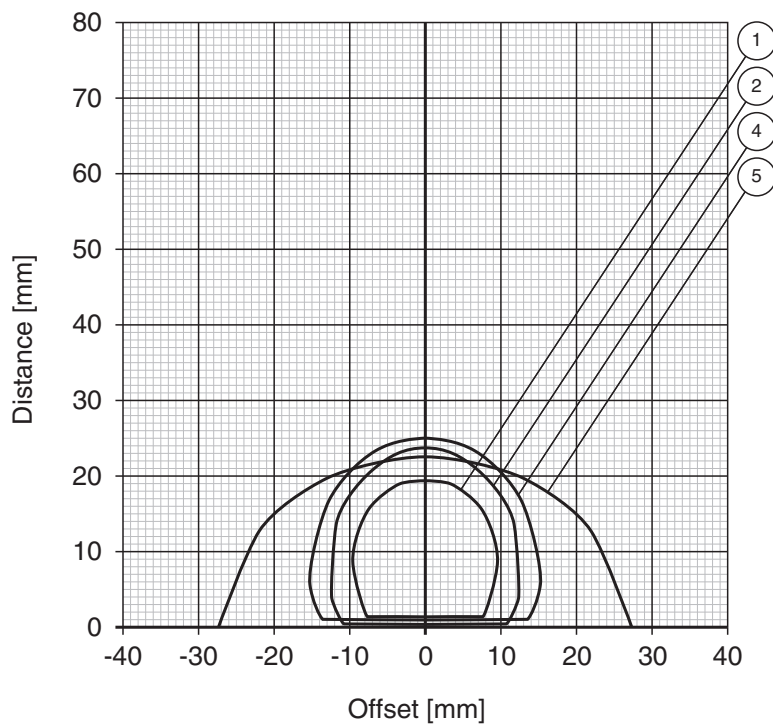
Write distance on aluminium IPC03-20..



Reading range on steel IPC03-20..



Writing range on steel IPC03-20..



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