

RFID Transponder

IPC03-20P

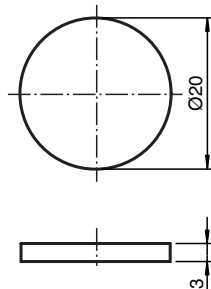


- Battery-free data carrier
- 32 bit fixcode
- 928 bits memory available
- Readable and writable from both sides
- Potted housing
- Degree of protection IP67 / IP68 / IP69K

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

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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)

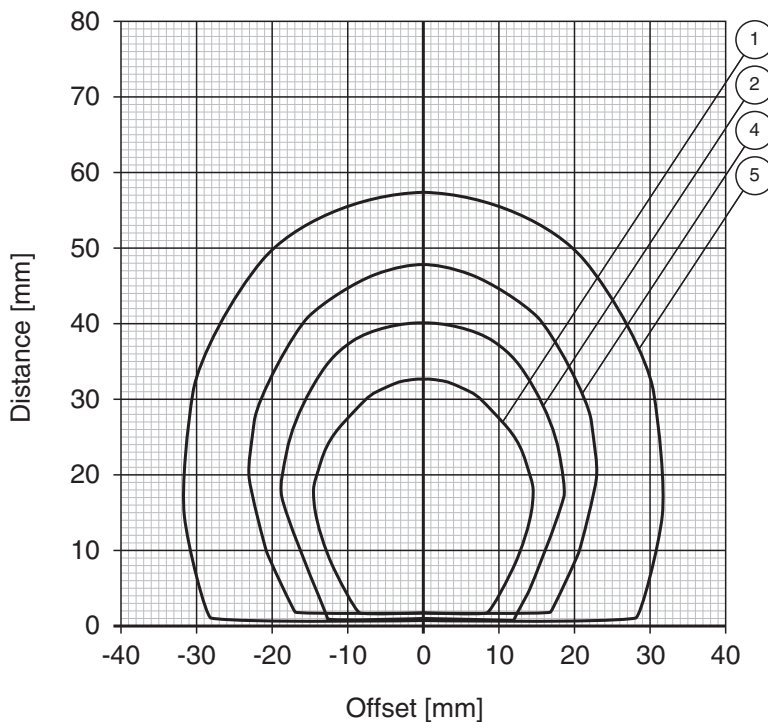
Mechanical specifications

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

Application

The transponder can be read and written from either side.

Reading range in air IPC03-20..



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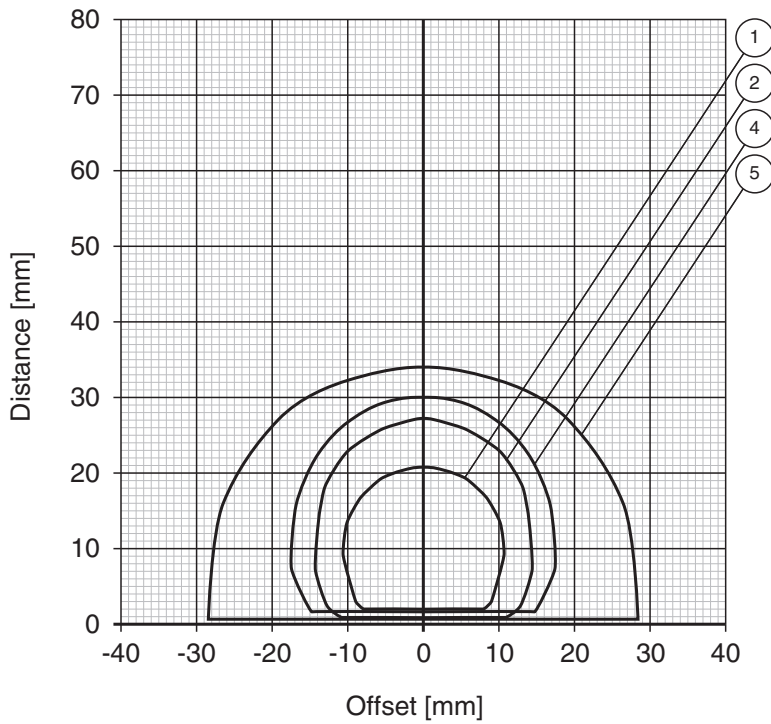
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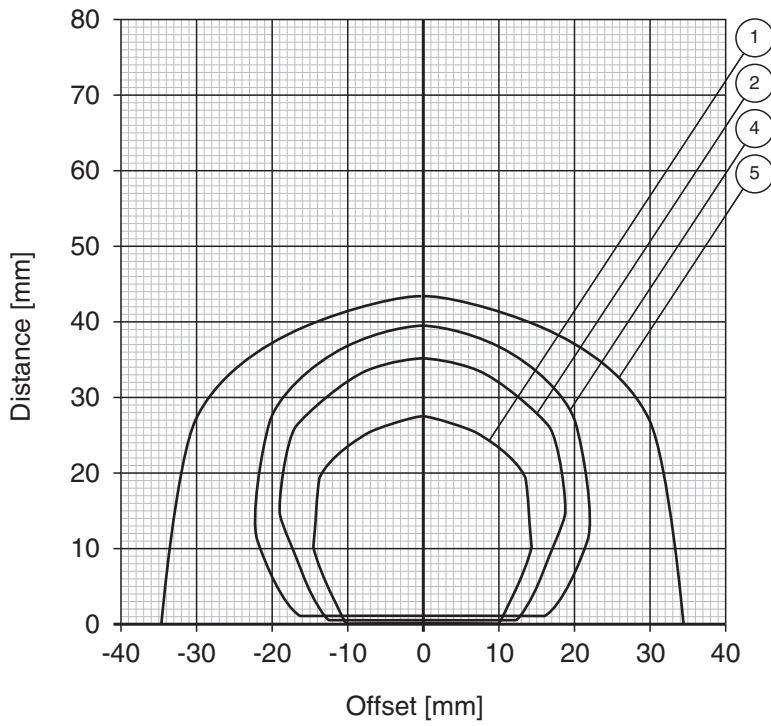
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Reading range on aluminium IPC03-20..



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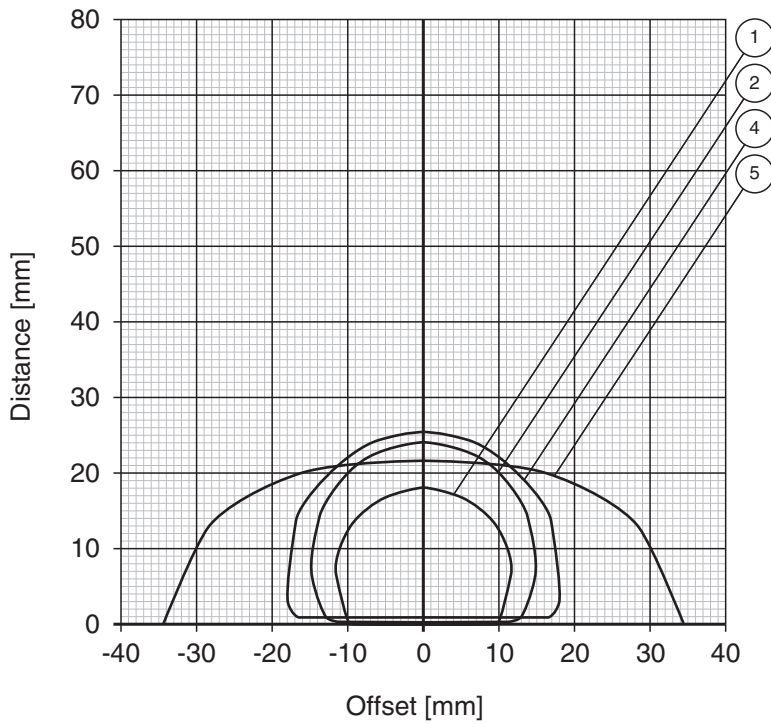
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Write distance on aluminium IPC03-20..



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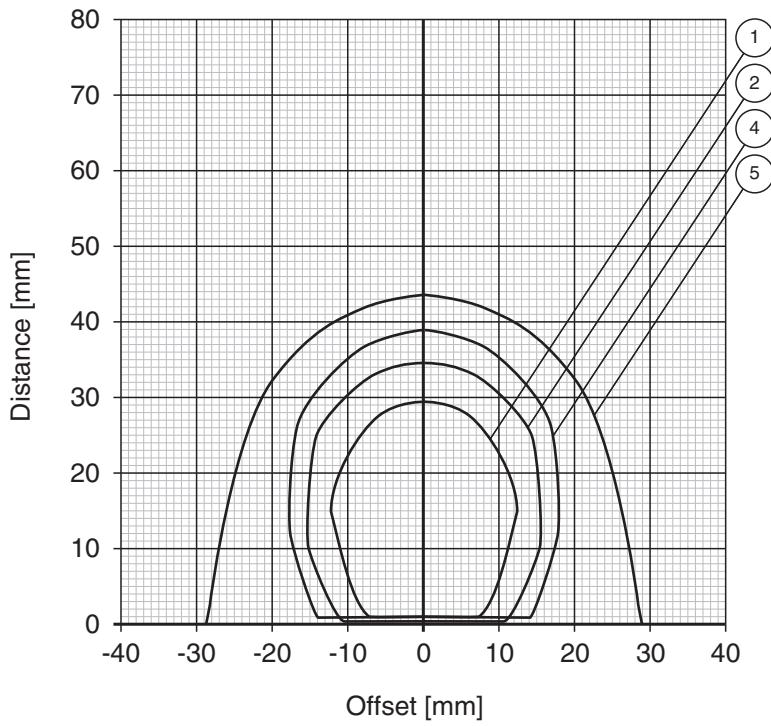
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Reading range on steel IPC03-20..



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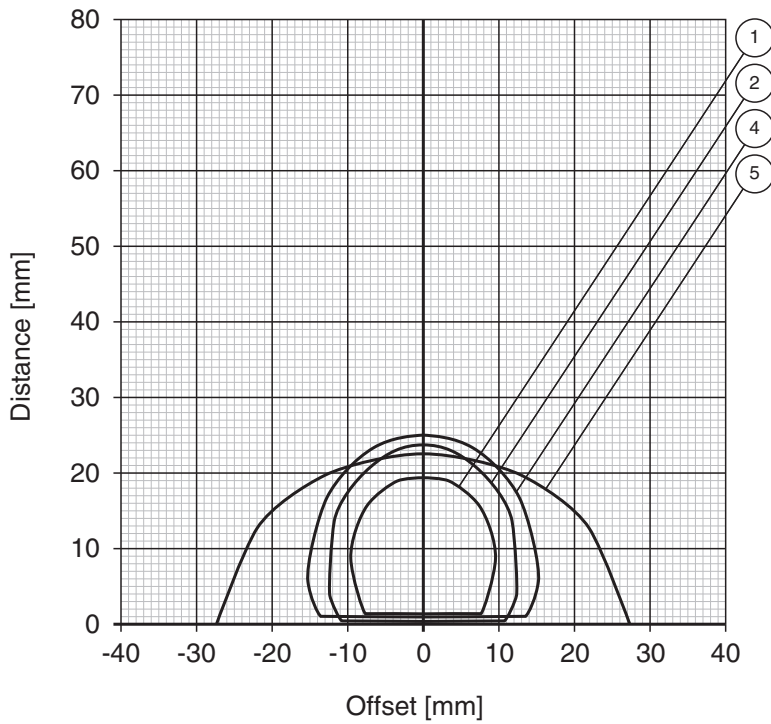
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Writing range on steel IPC03-20..



- 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

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