

RFID Transponder

IPC03-20P

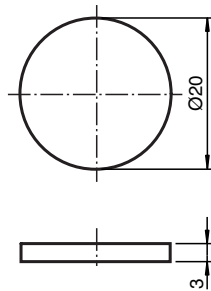


- Battery-free data carrier
- 32 bit fixcode
- 928 bits memory available
- Readable and writable from both sides
- Potted housing
- Degree of protection IP67 / IP68 / IP69K

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)	EN 50581
Standard conformity	
Degree of protection	EN 60529

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

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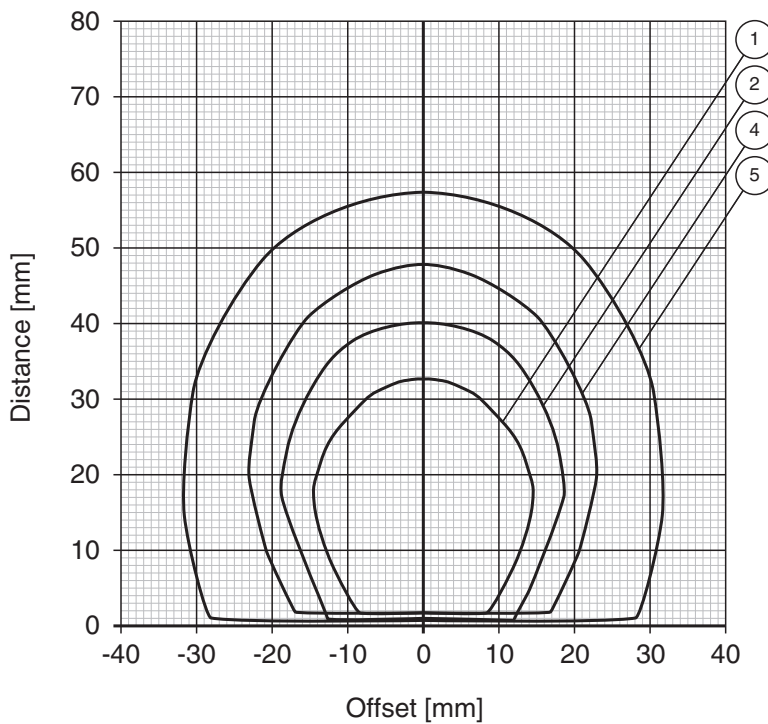
Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
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Technical Data

RFID	ISO/IEC 18000-2
Ambient conditions	
Ambient temperature	-20 ... 85 °C (-4 ... 185 °F)
Storage temperature	-20 ... 85 °C (-4 ... 185 °F)
Mechanical specifications	
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..



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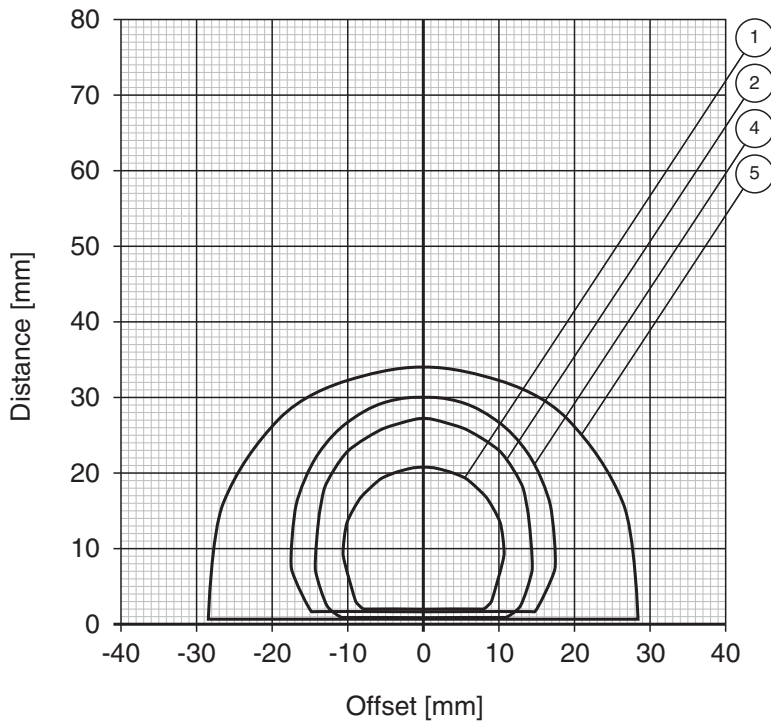
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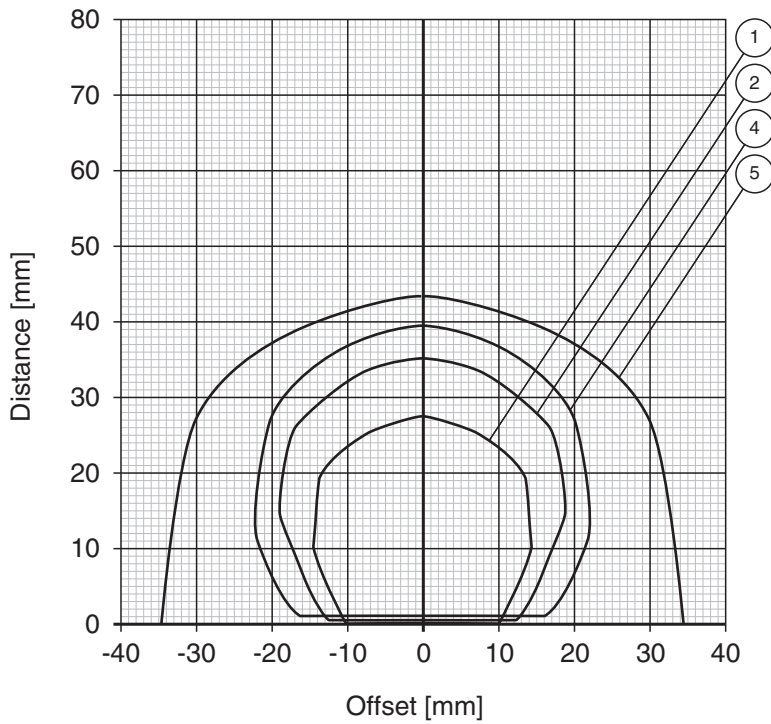
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Reading range on aluminium IPC03-20..



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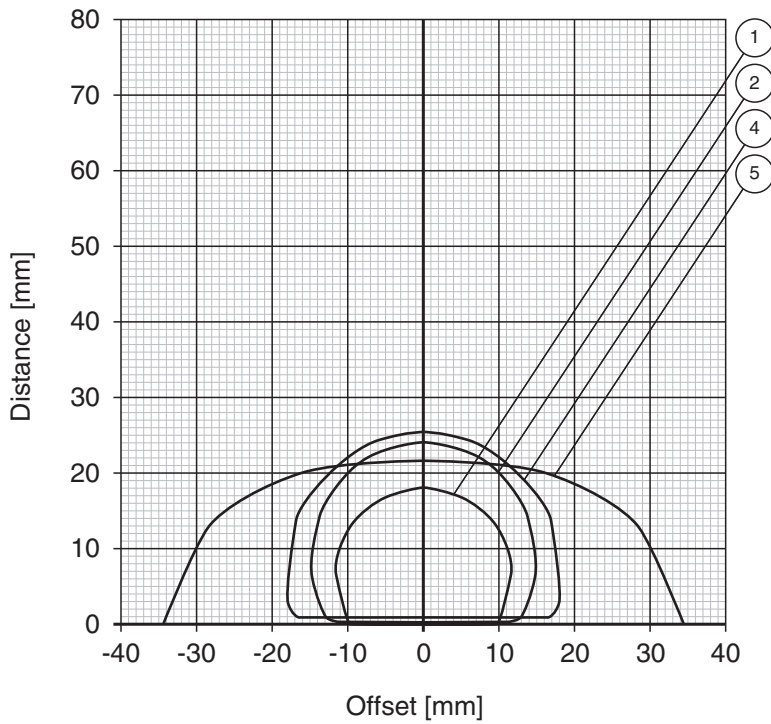
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Write distance on aluminium IPC03-20..



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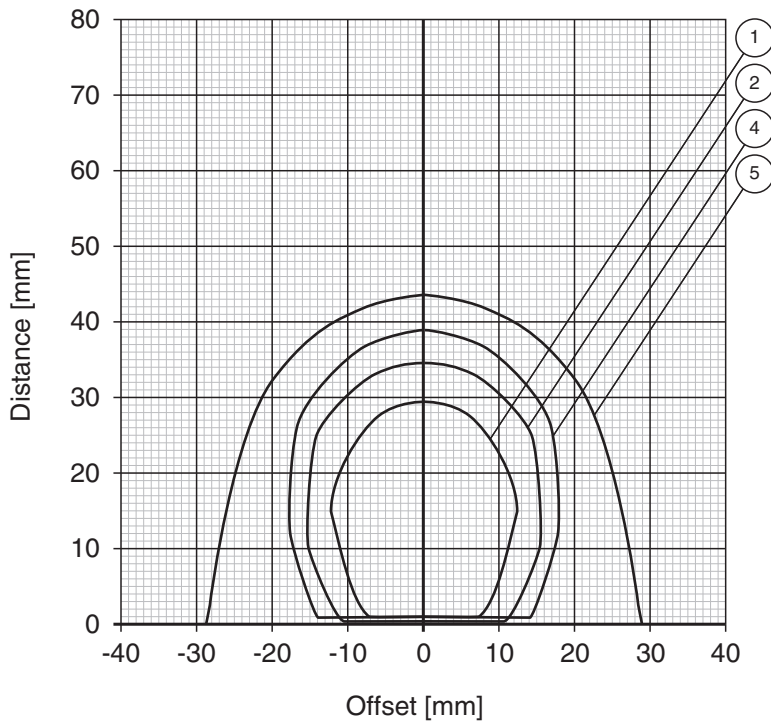
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Reading range on steel IPC03-20..



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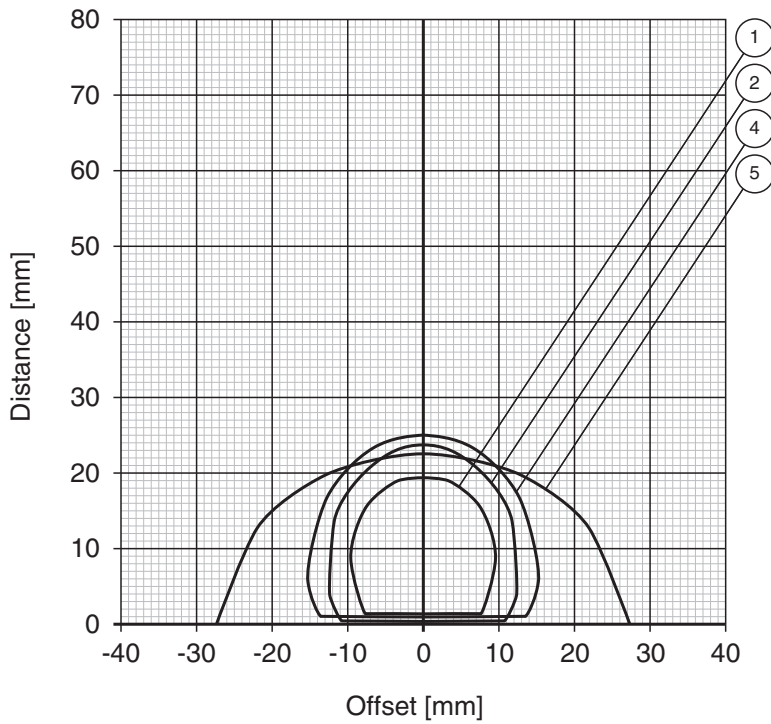
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Writing range on steel IPC03-20..



- | | | | |
|---------------|-------------|--------------|--------------|
| 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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Application

The transponder can be read and written from either side.