

RFID Transponder

IPC03-50P

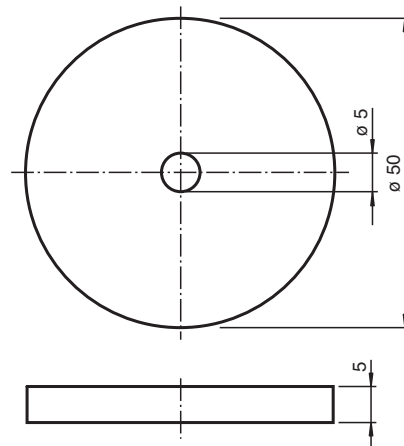


- Battery-free data carrier
- 32 bit fixcode
- 928 bits memory available
- Readable and writable from both sides
- Mounting holes for simple installation
- Degree of protection IP68

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) | EN 50581 |
| Standard conformity | |
| Degree of protection | EN 60529 |

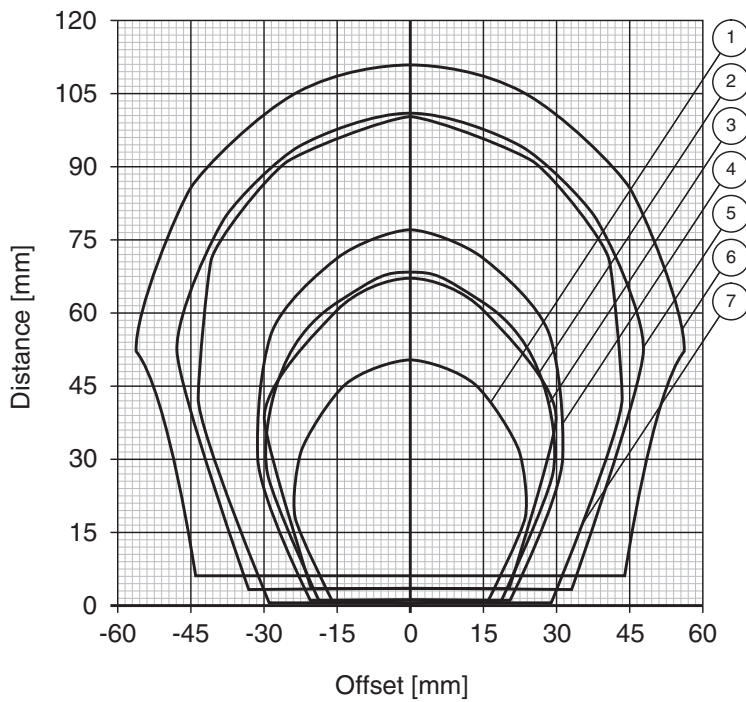
Release date: 2020-03-23 Date of issue: 2020-03-27 Filename: 181531_eng.pdf

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

Technical Data

| | |
|----------------------------------|--------------------------------|
| RFID | ISO/IEC 18000-2 |
| Ambient conditions | |
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
| Storage temperature | -40 ... 90 °C (-40 ... 194 °F) |
| Mechanical specifications | |
| Degree of protection | IP68 |
| Material | |
| Housing | PC (Polycarbonate) |
| Encapsulation compound | Epoxy |
| Installation | |
| In air | yes |
| Construction type | Cylindrical |

Reading range in air IPC03-50P



Release date: 2020-03-23 Date of issue: 2020-03-27 Filename: 181531_eng.pdf

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

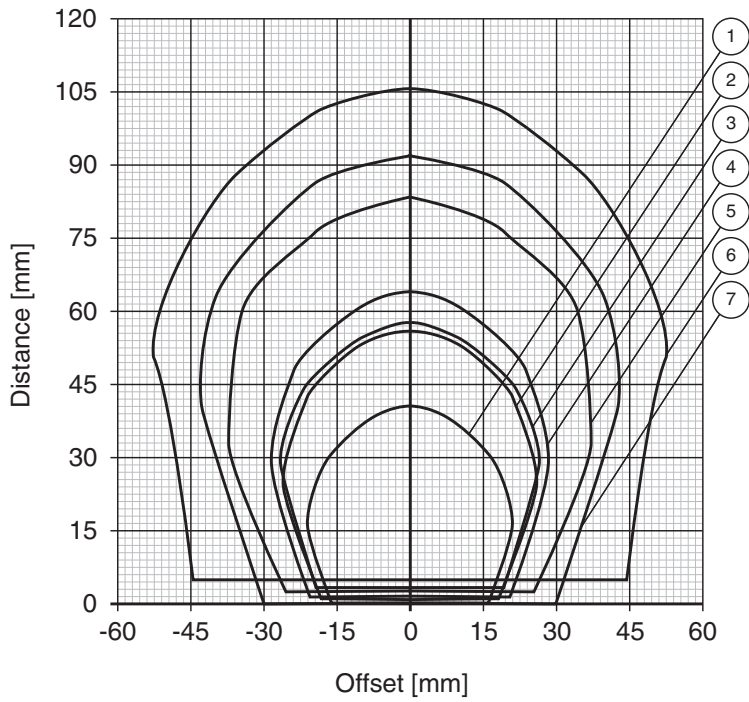
Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

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

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

Writing range in air IPC03-50P



Release date: 2020-03-23 Date of issue: 2020-03-27 Filename: 181531_eng.pdf

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

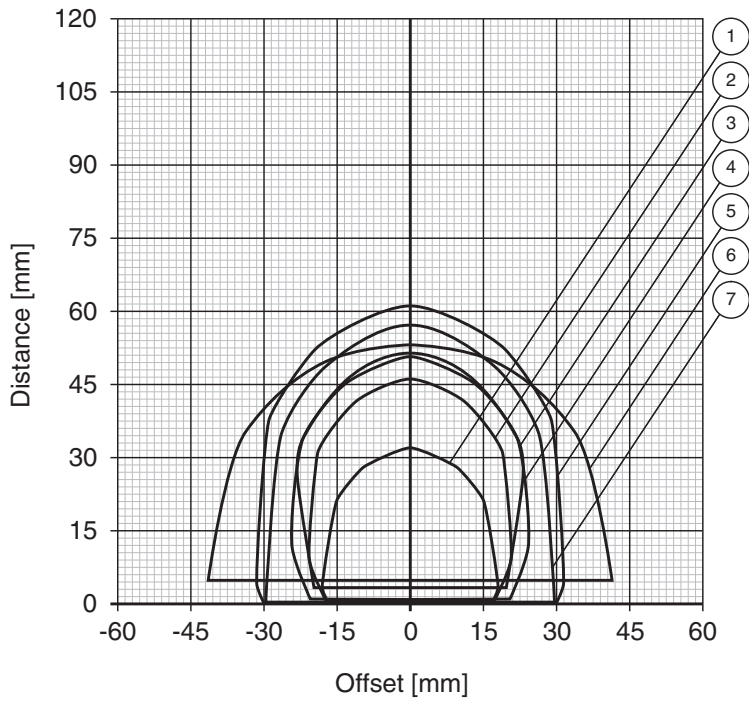
Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

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

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

Reading range on aluminium IPC03-50P



Release date: 2020-03-23 Date of issue: 2020-03-27 Filename: 181531_eng.pdf

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

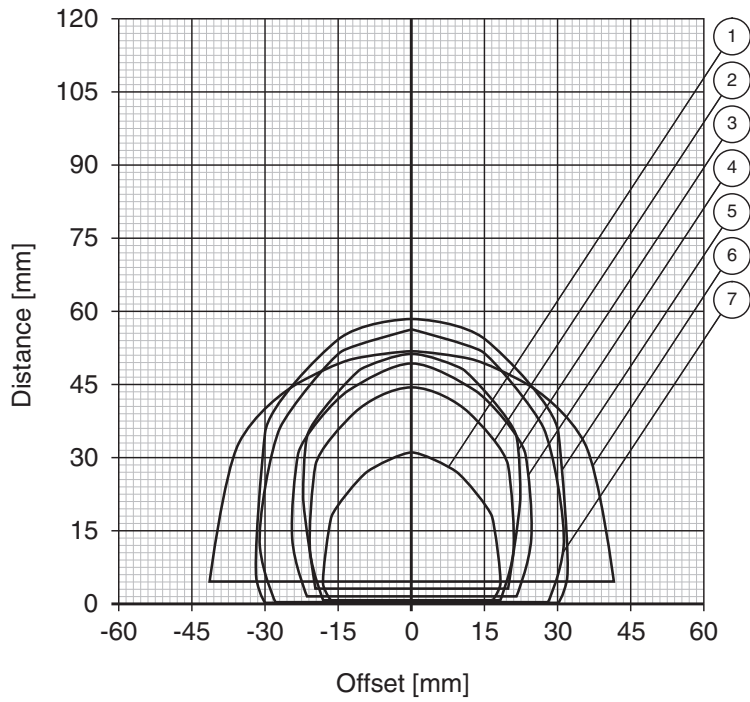
Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

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

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

Writing range on aluminium IPC03-50P



Release date: 2020-03-23 Date of issue: 2020-03-27 Filename: 181531_eng.pdf

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

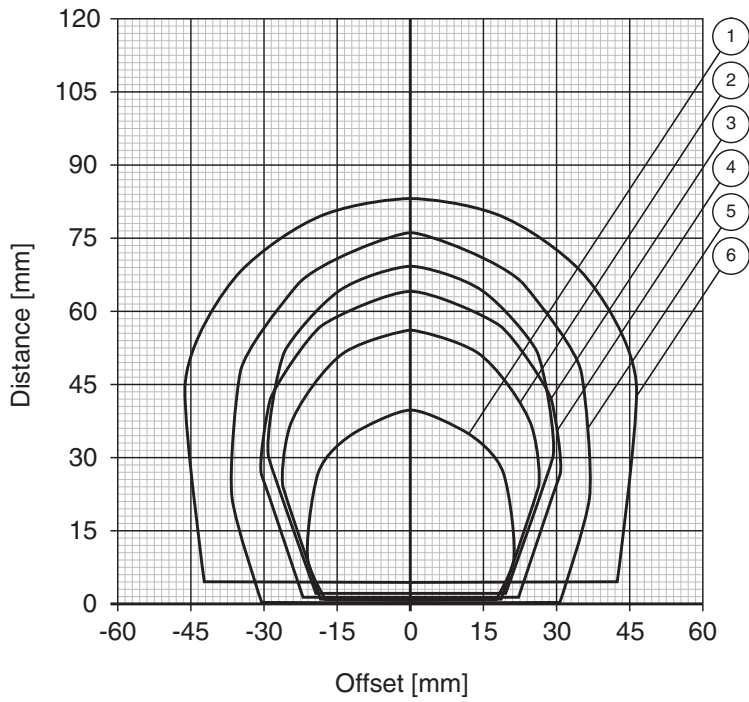
Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

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

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

Reading range on steel IPC03-50P



Release date: 2020-03-23 Date of issue: 2020-03-27 Filename: 181531_eng.pdf

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

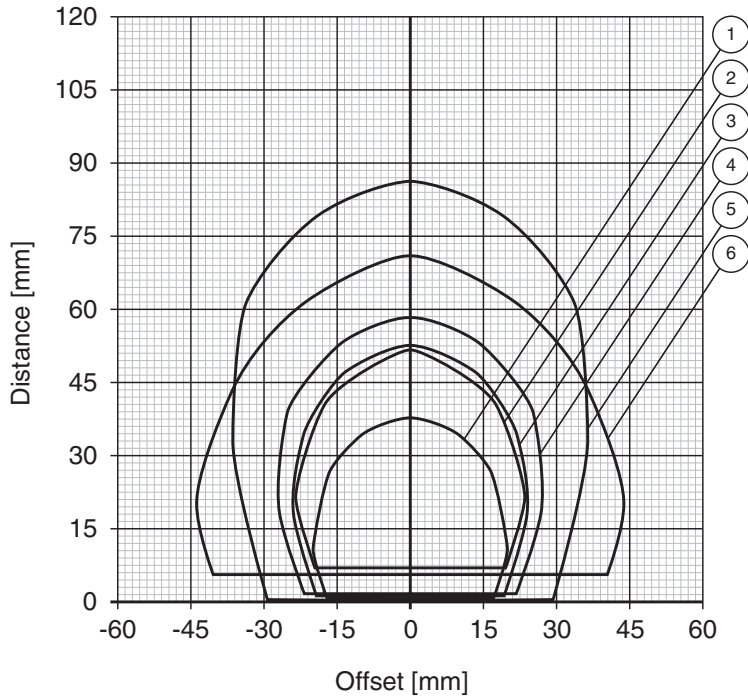
Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

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

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

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 | | |

Release date: 2020-03-23 Date of issue: 2020-03-27 Filename: 181531_eng.pdf

Application

The transponder can be read and written from either side.