

# Read/write station

## IQT1-F61-IO-V1

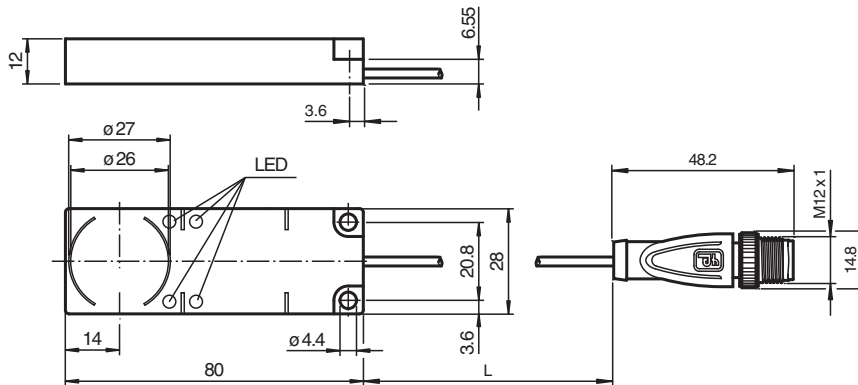


- Operating frequency 13.56 MHz
- IO-link interface
- Conforms to ISO 15693
- Suitable for FRAM transponder
- LEDs as function indicators
- Particularly flat construction
- Connection cable with V1 plug (M12 x 1)
- Degree of protection IP67
- Can be mounted on metal
- For connection to IO-Link master

HF read/write station with IO-Link in accordance with ISO 15693



### Dimensions



### Technical Data

| General specifications               |  |
|--------------------------------------|--|
| Operating frequency                  | 13.56 MHz  |
| Transfer rate                        | 26 kBit/s  |
| Sensing range                        |  |
| Read distance                        | 0 ... 55 mm  |
| Write distance                       | 0 ... 55 mm  |
| Width                                | max. 45 mm   |
| UL File Number                       | E87056   |
| Functional safety related parameters |  |
| MTTF <sub>d</sub>                    | 280 a  |
| Mission Time (T <sub>M</sub> )       | 10 a   |
| Diagnostic Coverage (DC)             | 0 %  |
| Indicators/operating means           |  |
| LED green                            | Illuminated: power on<br>Flashing: IO-Link communication |
| LED yellow                           | Data carrier detected                                    |

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

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## Technical Data

|                                   |       |   |
|-----------------------------------|-------|---|
| LED red                           |       | Flashing: IO-Link communication interrupted   |
| LED blue                          |       | Write/read attempt is being performed   |
| <b>Electrical specifications</b>  |       |   |
| Rated operating voltage           | $U_e$ | 20 ... 30 V DC , ripple 10 % <sub>SS</sub>  |
| Power consumption                 | $P_0$ | ≤ 2 W   |
| <b>Interface</b>                  |       |   |
| Interface type                    |       | IO-Link   |
| Protocol                          |       | IO-Link V1.1  |
| Cycle time                        |       | min. 4 ms   |
| Mode                              |       | COM 3 (230.4 kBaud)   |
| Process data width                |       | 32 Byte   |
| SIO mode support                  |       | no  |
| <b>Directive conformity</b>       |       |   |
| Radio equipment                   |       |   |
| Directive 2014/53/EU              |       | EN 301489-1<br>EN 301489-3<br>EN 300330<br>EN 62368-1<br>EN 50364   |
| RoHS                              |       |   |
| Directive 2011/65/EU (RoHS)       |       | EN 50581  |
| <b>Standard conformity</b>        |       |   |
| Degree of protection              |       | EN 60529  |
| Communication interface           |       | EN 61131-9  |
| RFID                              |       | ISO/IEC 15693-2<br>ISO/IEC 15693-3<br>ISO/IEC 18000-3   |
| <b>Approvals and certificates</b> |       |   |
| UL approval                       |       | cULus Listed, Class 2 Power Source, Type 1 enclosure  |
| FCC approval                      |       | This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:<br>(1) This device may not cause harmful interference, and<br>(2) This device must accept any interference received, including interference that may cause undesired operation.<br><b>Caution:</b><br>Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.   |
| IC approval                       |       | This device complies with Industry Canada licence-exempt RSS standard(s) and with part 15 of the FCC Rules. Operation is subject to the following two conditions:<br>(1) this device may not cause interference, and<br>(2) this device must accept any interference, including interference that may cause undesired operation of the device.<br>Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :<br>(1) l'appareil ne doit pas produire de brouillage, et<br>(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. |
| Radio approval                    |       | USA: FCC IREIQT1F61IO<br>Canada: IC 7037A-IQT1F61IO   |
| <b>Ambient conditions</b>         |       |   |
| Ambient temperature               |       | -25 ... 70 °C (-13 ... 158 °F)  |
| Storage temperature               |       | -40 ... 85 °C (-40 ... 185 °F)  |
| <b>Mechanical specifications</b>  |       |   |
| Degree of protection              |       | IP67  |
| Connection                        |       | connector M12 x 1   |
| Material                          |       |   |
| Housing                           |       | PBT   |
| Encapsulation compound            |       | WEVO 403FL/300  |
| Installation                      |       |   |
| Distance between two heads        |       | ≥ 150 mm  |
| Mass                              |       | approx. 60 g  |

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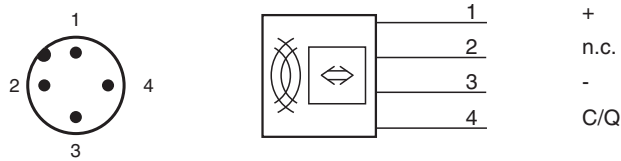
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## Technical Data

|              |       |
|--------------|-------|
| Cable length | 20 cm |
|--------------|-------|

## Connection



## Accessories

|  |                             |  |
|--|-----------------------------|--|
|  | <b>ICE1-8IOL-G60L-V1D</b>   | Ethernet IO-Link module with 8 inputs/outputs  |
|  | <b>IO-Link-Master02-USB</b> | IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection |
|  | <b>V1-G-0,3M-PVC-V1-G</b>   | Connecting cable, M12 to M12, PVC cable 4-pin  |
|  | <b>V1-G-5M-PVC-V1-G</b>     | Connecting cable, M12 to M12, PVC cable 4-pin  |
|  | <b>V1-G-10M-PVC-V1-G</b>    | Connecting cable, M12 to M12, PVC cable 4-pin  |
|  | <b>IQC21-8 10pcs</b>        | Data carrier   |
|  | <b>IQC21-10 10pcs</b>       | Data carrier   |
|  | <b>IQC21-12.4 10pcs</b>     | Data carrier   |
|  | <b>IQC21-16 50pcs</b>       | Data carrier   |
|  | <b>IQC21-30 25pcs</b>       | Data carrier   |
|  | <b>IQC21-50F-T10</b>        | Data carrier   |
|  | <b>IQC21-58</b>             | Data carrier   |
|  | <b>IQC22-22-T9 50pcs</b>    | Data carrier   |
|  | <b>IQC33-20 50pcs</b>       | Data carrier   |
|  | <b>IQC33-30 25pcs</b>       | Data carrier   |

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## Accessories



**IQC33-50 25pcs**

Data carrier

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## Safety Information

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.