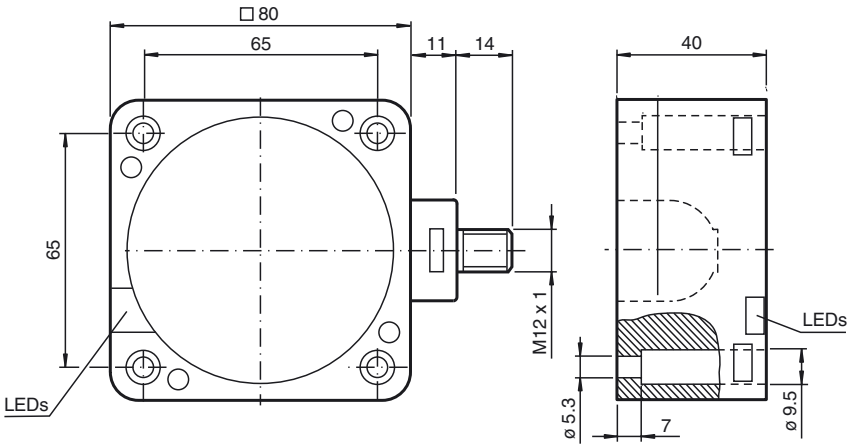
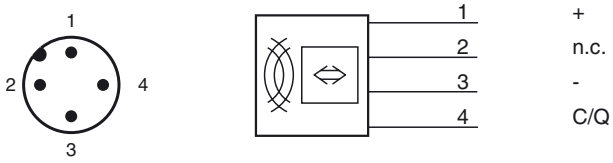
## Dimensions




## Electrical connection




## Model Number

**IQT1-FP-IO-V1**

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

## Features

- Operating frequency 13.56 MHz
- IO-link interface
- Conforms to ISO 15693
- Suitable for FRAM transponder
- LEDs as function indicators
- Connection via V1 (M12 x 1) plug connection
- Degree of protection IP67
- For connection to IO-Link master

## Technical data

| | | |
|---|---|---|
| **General specifications** | | |
| Operating frequency | | 13.56 MHz |
| Transfer rate | | 26 kBit/s |
| Sensing range | | |
| Read distance | | 0 ... 130 mm |
| Write distance | | 0 ... 130 mm |
| Width | | max. 100 mm |
| UL File Number | | E87056 |
| **Functional safety related parameters** | | |
| $MTTF_d$ | | 680 a |
| Mission Time ($T_M$) | | 10 a |
| Diagnostic Coverage (DC) | | 0 % |
| **Indicators/operating means** | | |
| LED red/green | | Green: power on<br>Flashing green: IO-Link communication<br>Flashing red/green: IO-Link communication interrupted |
| LED blue/yellow | | Blue: Write/read attempt performed<br>Yellow: Read/write tag detected |
| **Electrical specifications** | | |
| Rated operating voltage | $U_e$ | 20 ... 30 V DC , ripple 10 $\%_{SS}$ |
| Power consumption | $P_0$ | ≤ 2 W |
| **Interface** | | |
| Interface type | | IO-Link |
| Protocol | | IO-Link V1.1 |
| Cycle time | | min. 4 ms |
| Mode | | COM 3 (230.4 kBaud) |
| Process data witdh | | 32 Byte |
| SIO mode support | | no |
| **Directive conformity** | | |
| Electromagnetic compatibility | | |
| Directive 2014/30/EU | | EN 61000-6-2:2005<br>EN 61000-6-4:2007 |
| Radio and telecommunication terminal equipment | | |
| Directive 2014/53/EU | | EN 301489-1 V1.9.2:2011<br>EN 301489-3 V1.6.1:2013<br>EN 300330 V2.1.1:2017<br>EN 62368-1:2014+AC:2015<br>EN 50364:2010 |
| **Standard conformity** | | |

Release date: 2018-03-02 10:04 Date of issue: 2018-03-02 299929_eng.xml

| | |
|---|---|
| Degree of protection | EN 60529:2000 |
| RFID | ISO/IEC 15693-2:2006<br>ISO/IEC 15693-3:2009<br>ISO/IEC 18000-3:2010 |
| **Ambient conditions** | |
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
| Storage temperature | -40 ... 85 °C (-40 ... 185 °F) |
| **Mechanical specifications** | |
| Degree of protection | IP67 |
| Connection | M12 x 1 connector |
| Material | |
| Housing | PBT |
| Base | diecast aluminum |
| Encapsulation compound | CY 221/HY 2966 |
| Installation | |
| Distance between two heads | ≥ 150 mm |
| Mass | approx. 380 g |
| **Approvals and certificates** | |
| 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>**Caution:**<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><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 IREIQT1FPIO<br>Canada: 7037A-IQT1FPIO |

## Notes

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.

## Accessories

**ICE1-8IOL-G60L-V1D**
Ethernet IO-Link module with 8 inputs/outputs

**IO-Link-Master02-USB**
IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection

**V1-G-0,3M-PVC-V1-G**
Connecting cable, M12 to M12, PVC cable 4-pin

**V1-G-5M-PVC-V1-G**
Connecting cable, M12 to M12, PVC cable 4-pin

**V1-G-10M-PVC-V1-G**
Connecting cable, M12 to M12, PVC cable 4-pin

**IQC21-8 10pcs**
Data carrier

**IQC21-10 10pcs**
Data carrier

**IQC21-12 50pcs**
Data carrier

**IQC21-12.4 10pcs**
Data carrier

**IQC21-16 50pcs**
Data carrier

**IQC21-30 25pcs**
Data carrier

**IQC21-50 25pcs**
Data carrier

**IQC24-15 10pcs**
Data carrier

**IQC24-50F 10pcs**
Data carrier

**IQC33-10 10pcs**
Data carrier

**IQC33-20 50pcs**
Data carrier

**IQC33-30 25pcs**
Data carrier

**IQC33-50 25pcs**
Data carrier

**IQC37-30**
Data carrier

Release date: 2018-03-02 10:04 Date of issue: 2018-03-02 299929_eng.xml