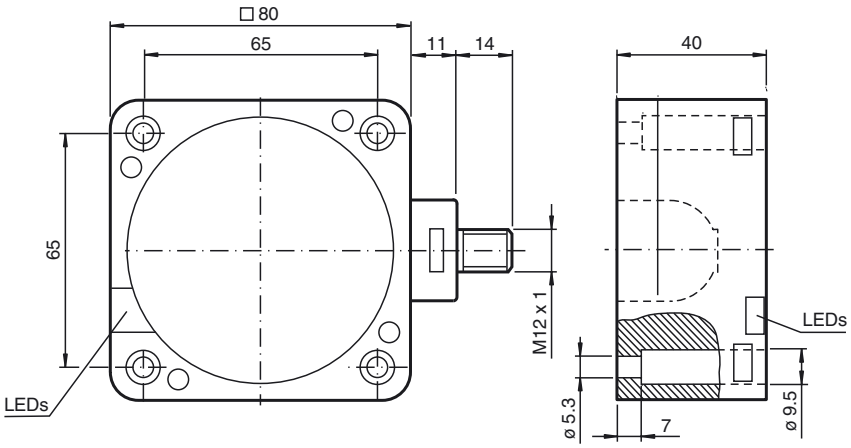
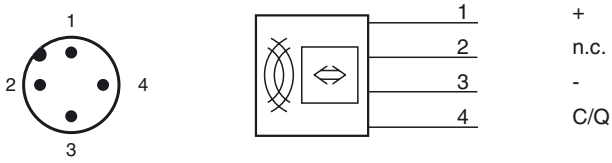
Dimensions



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 Flashing green: IO-Link communication Flashing red/green: IO-Link communication interrupted
LED blue/yellow		Blue: Write/read attempt performed 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 EN 61000-6-4:2007
Radio and telecommunication terminal equipment		
Directive 2014/53/EU		EN 301489-1 V1.9.2:2011 EN 301489-3 V1.6.1:2013 EN 300330 V2.1.1:2017 EN 62368-1:2014+AC:2015 EN 50364:2010
Standard conformity		

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Degree of protection	EN 60529:2000
RFID	ISO/IEC 15693-2:2006 ISO/IEC 15693-3:2009 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: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. **Caution:** 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: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. 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 : (1) l'appareil ne doit pas produire de brouillage, et (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 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

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