



Model Number

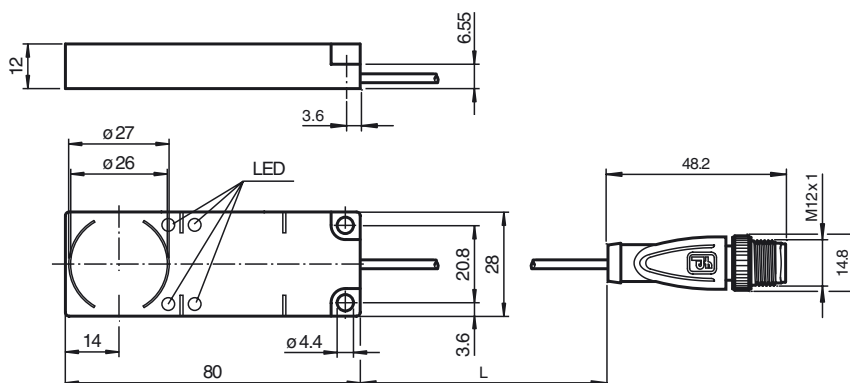
IQT1-F61-IO-V1

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

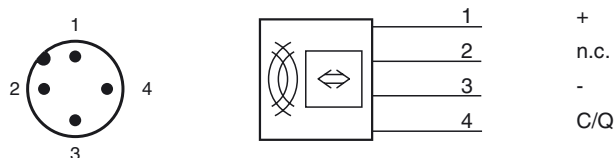
Features

- Operating frequency 13.56 MHz
- IO-link interface
- Conforms to ISO 15693
- Suitable for FRAM transponder
- LEDs as function indicators
- 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

Dimensions



Electrical connection



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

Indicators/operating means

LED green	Illuminated: power on Flashing: IO-Link communication
LED yellow	Data carrier detected
LED red	Flashing: IO-Link communication interrupted
LED blue	Write/read attempt is being performed

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 width	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

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
Encapsulation compound	WEVO 403FL/300

Installation

Distance between two heads	≥ 150 mm
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Mass	approx. 60 g
Cable length	20 cm

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 IREIQT1F61IO Canada: IC 7037A-IQT1F61IO

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