



RFID read/write device

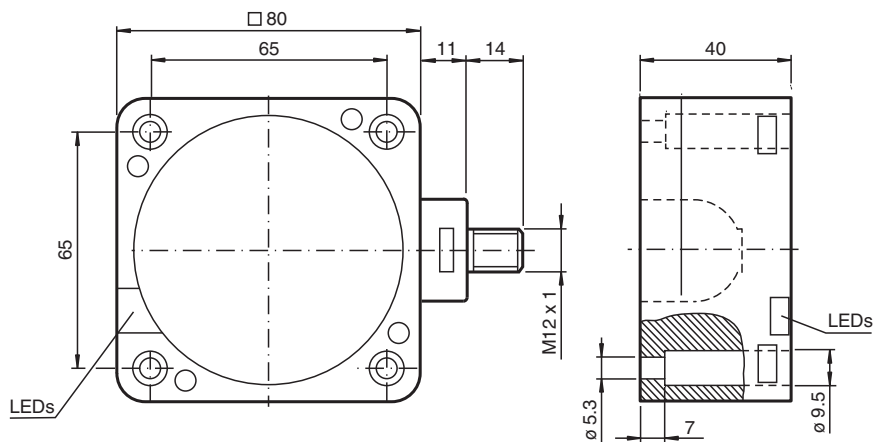
IQT1-FP-IO-V1

- 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

HF RFID read/write device 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 ... 130 mm
Write distance	0 ... 130 mm
Width	max. 100 mm
MTBF	140 a (Operation at +40 °C)

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}
No-load supply current	I_0	≤ 70 mA (at 24 V DC)
Power consumption	P_0	≤ 2 W

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

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PEPPERL+FUCHS

Technical Data

Interface

Interface type		IO-Link
IO-Link revision		1.1
Process data		Input 32 Byte Output 32 Byte
Vendor ID		1 (0x0001)
Device ID		4194561 (0x400101)
Data transfer rate		COM3 (230.4 kbits/s)
Min. cycle time		4 ms
SIO mode support		no
Compatible master port type		Class A Class B

Directive conformity

Radio equipment		
Directive 2014/53/EU		EN 301489-1 EN 301489-3 EN 300330 EN 62368-1 EN 50364
RoHS		
Directive 2011/65/EU (RoHS)		IEC/EN 63000

Standard conformity

Degree of protection		EN 60529
Communication interface		IEC 61131-9 / IO-Link V1.1.2
RFID		ISO/IEC 15693-2 ISO/IEC 15693-3 ISO/IEC 18000-3

Approvals and certificates

UL approval		E87056 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.
MIC approval		AC-21098
Radio approval		USA: FCC IREIQT1FP10 Canada: 7037A-IQT1FP10

Ambient conditions

Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

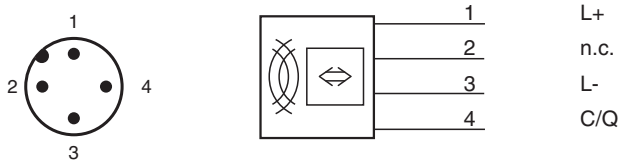
Degree of protection		IP67
Connection		connector M12 x 1
Material		
Housing		PBT
Base		diecast aluminum
Encapsulation compound		CY 221/HY 2966
Installation		

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Technical Data

Distance between two heads		≥ 150 mm
Mass		approx. 380 g
Dimensions		
Height		40 mm
Width		80 mm
Length		108.5 mm

Connection



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.