

# RFID read/write device

## IQT1-18GM-IO-V1

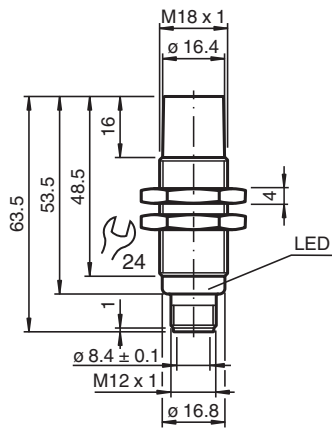


- Operating frequency 13.56 MHz
- IO-Link interface
- Conforms to ISO 15693
- Suitable for FRAM transponder
- LEDs as function indicators
- Read/write head with thread M18 x 1
- Connection via V1 (M12 x 1) plug connection
- Degree of protection IP67
- For connection to IO-Link master

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 ... 50 mm
Write distance		0 ... 50 mm
Width		max. 45 mm
UL File Number		E87056
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 % <sub>SS</sub>
No-load supply current	$I_o$	≤ 70 mA (at 24 V DC)

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

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## Technical Data

Power consumption	$P_0$	$\leq 2 \text{ W}$
<b>Interface</b>		
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
<b>Directive conformity</b>		
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
<b>Standard conformity</b>		
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
<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: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. <b>Caution:</b> 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		approval not required
Radio approval		USA: FCC IREIQT118GMIO Canada: IC 7037A-IQT118GMIO
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
<b>Mechanical specifications</b>		
Housing length		63.5 mm
Housing diameter		18 mm
Degree of protection		IP67
Connection		connector M12 x 1
Material		
Housing		PBT/stainless steel
Encapsulation compound		CY 221/HY 2966

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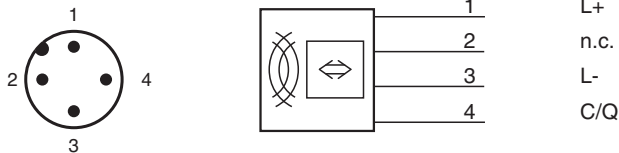
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## Technical Data

Installation	non-flush
Distance between two heads	≥ 80 mm
Mass	approx. 25 g

## 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.

## Accessories

	<b>ICE1-8IOL-S2-G60L-V1D</b>	Ethernet IO-Link master with PROFINET S2 redundancy
	<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
	<b>IQC33-50 25pcs</b>	Data carrier

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## Accessories

	<b>V1-G-0,3M-PVC-V1-G</b>	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	<b>V1-G-5M-PVC-V1-G</b>	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	<b>V1-G-10M-PVC-V1-G</b>	Cordset M12 socket straight to M12 plug straight A-coded, 4-pin, PVC cable grey
	<b>ICE2-8IOL-G65L-V1D</b>	EtherNet/IP IO-Link master with 8 inputs/outputs
	<b>ICE3-8IOL-G65L-V1D</b>	PROFINET IO IO-Link master with 8 inputs/outputs
	<b>ICE2-8IOL-K45S-RJ45</b>	EtherNet/IP IO-Link master with 8 inputs/outputs, DIN rail, screw terminal
	<b>ICE3-8IOL-K45P-RJ45</b>	PROFINET IO IO-Link master with 8 inputs/outputs, DIN rail, push-in terminals
	<b>ICE3-8IOL-K45S-RJ45</b>	PROFINET IO IO-Link master with 8 inputs/outputs, DIN rail, screw terminal
	<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>ICE1-8IOL-G30L-V1D</b>	Ethernet IO-Link module with 8 inputs/outputs
	<b>ICE1-8IOL-G60L-V1D</b>	Ethernet IO-Link module with 8 inputs/outputs
	<b>ICE2-8IOL-K45P-RJ45</b>	EtherNet/IP IO-Link master with 8 inputs/outputs, DIN rail, push-in connectors