



## RFID read/write device hazardous area

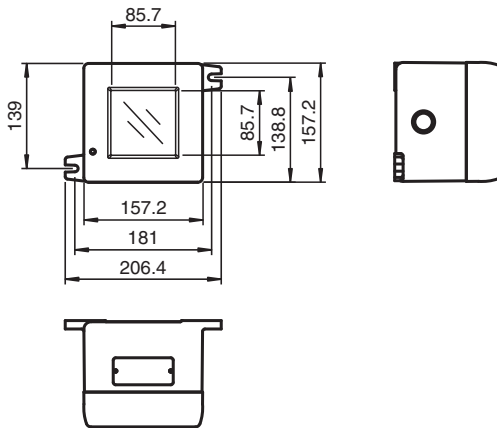
### IQT1-FP-IO-C1D1

- Explosion-proof housing
- Operating frequency 13.56 MHz
- Conforms to ISO 15693
- Suitable for FRAM transponder
- Connection via screw terminals
- Approved for Class I, Groups C, D

RFID read/write device hazardous area



## Dimensions



## Technical Data

General specifications		
Operating frequency		13.56 MHz
Transfer rate		26 kBit/s
Sensing range		
Read distance		0 ... 44 mm
Write distance		0 ... 44 mm
Width		max. 48 mm
UL File Number		E254700
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>
Power consumption	$P_0$	≤ 2 W

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

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## Technical Data

Interface	
Interface type	IO-Link
IO-Link revision	1.1
Process data	Input 32 Byte Output 32 Byte
Vendor ID	1 (0x0001)
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
Standard conformity	
RFID	ISO/IEC 15693-2 ISO/IEC 15693-3 ISO/IEC 18000-3
Approvals and certificates	
UL approval	Class I, Division 1, Groups C, D
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.
Radio approval	USA: FCC IREIQT1FPPIO Canada: 7037A-IQT1FPPIO
Ambient conditions	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications	
Housing length	157 mm
Housing width	157 mm
Housing height	140 mm
Degree of protection	NEMA Type 4, 7, 9
Connection	Terminals
Material	
Housing	diecast aluminum
Base	diecast aluminum
Installation	
Distance between two heads	≥ 150 mm
Mass	approx. 4080 g

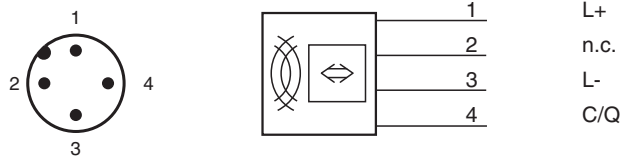
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**Connection**



**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.

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