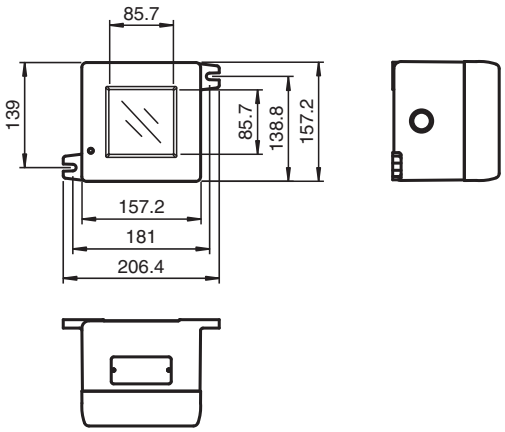
Read/write head for hazardous areas

IQH1-FP-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

HF read/write head, ISO 15693, for IDENTControl, for hazardous areas

Dimensions



Technical Data

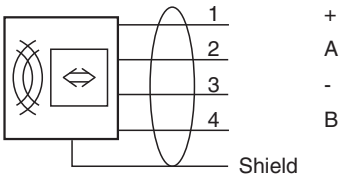
General specifications	
Operating frequency	13.56 MHz
Transfer rate	26 kBit/s
Sensing range	
Read distance	0 ... 44 mm
Write distance	0 ... 44 mm
Width	max. 48 mm
UL File Number	E305142
Functional safety related parameters	
$MTTF_d$	680 a
Mission Time (T_M)	10 a
Diagnostic Coverage (DC)	0 %
Indicators/operating means	
LED green/yellow	green: power on green flashing: read/write attempt performed yellow: data carrier detected
Electrical specifications	

Release date: 2020-03-24 Date of issue: 2020-03-27 Filename: 915495_eng.pdf

Technical Data

Power consumption	P_0	≤ 1.3 W
Supply		from the IDENTControl
Compliance with standards and directives		
Directive conformity		
R&TTE Directive 1995/5/EC		EN 301489-1 V1.8.1 (2008-04), EN 301489-3 V1.4.1 (2002-08), EN 300330-2 V1.3.1 (2006-04), EN 60950-1:2006
Standard conformity		
Electromagnetic compatibility		EN 61000-6-2, EN 61000-6-4
Degree of protection		EN 60529
RFID		ISO/IEC 15693-2:2006 , ISO/IEC 15693-3:2009 , 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. **Caution:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Degree of protection		NEMA Type 4, 7, 9
Connection		Terminals
Material		
Housing		diecast aluminum
Base		diecast aluminum
Installation		
Distance between two heads		Multiplex on: ≥ 65 mm Multiplex off: ≥ 115 mm
Mass		approx. 4080 g

Connection



Accessories

	**IQC21-50P**	Data carrier
	**IQC21-58**	Data carrier
	**IQC24-27-T12**	Data carrier
	IQC21-50PVC	Data carrier

Release date: 2020-03-24 Date of issue: 2020-03-27 Filename: 915495_eng.pdf

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.

Release date: 2020-03-24 Date of issue: 2020-03-27 Filename: 915495_eng.pdf