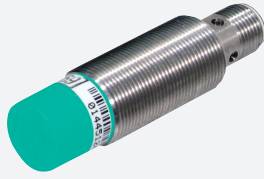


# Read/write station

## IQT1-18GM-R4-V1

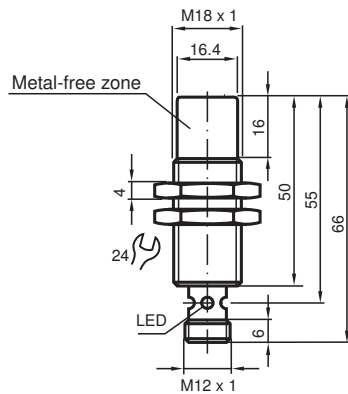


- Operating frequency 13.56 MHz
- Conforms to ISO 15693
- Suitable for FRAM transponder
- Read/write head with thread M18 x 1
- Connection via V1 (M12 x 1) plug connection
- Multihole-LED for function display
- Degree of protection IP67
- Connection via integrated RS-485 interface

HF R/W system, 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
Functional safety related parameters	
MTTF <sub>d</sub>	750 a
Mission Time (T <sub>M</sub> )	10 a
Diagnostic Coverage (DC)	0 %
Indicators/operating means	
LED green/yellow	Multihole-LED: green: power on green flashing: read/write attempt performed yellow: data carrier detected

Release date: 2020-03-24 Date of issue: 2020-03-27 Filename: 265935\_eng.pdf

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

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PEPPERL+FUCHS

## Technical Data

### Electrical specifications

Rated operating voltage	$U_e$	10 ... 30 V DC , ripple 10 % <sub>SS</sub> , limited power source (EN 60950)
Power consumption	$P_0$	≤ 1.2 W

### Interface

Physical	RS-485 point-to-point connection
Protocol	ASCII
Transfer rate	1200, 2400, 4800, 9600, 19200, 38400 (default) Bit/s
Cable length	≤ 3 m

### 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)	EN 50581

### Standard conformity

Degree of protection	EN 60529
RFID	ISO/IEC 15693-2 ISO/IEC 15693-3 ISO/IEC 18000-3

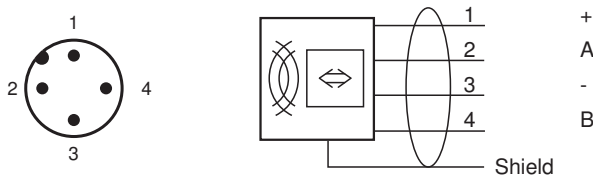
### Ambient conditions

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/stainless steel
Encapsulation compound	CY 221/HY 2966
Installation	non-flush
Distance between two heads	≥ 80 mm
Mass	approx. 40 g












## Connection



## Accessories

	<b>IQC21-8 10pcs</b>	Data carrier
	<b>IQC21-10 10pcs</b>	Data carrier
	<b>IQC21-12.4 10pcs</b>	Data carrier

## Accessories

	<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
	<b>V1-G-2M-PUR-ABG-V1-W</b>	Connecting cable, M12 to M12, PUR cable 4-pin, shielded
	<b>V1-G-5M-PUR-ABG-V1-W</b>	Connecting cable, M12 to M12, PUR cable 4-pin, shielded
	<b>V1-G-10M-PUR-ABG-V1-W</b>	Connecting cable, M12 to M12, PUR cable 4-pin, shielded

## Parameterization

**Power supply:**

The device must only be operated with a current source of limited power according to EN 60950.

**Preferences:**

Interface transfer rate: 38400 bps

Port settings: 8 data bits, no parity, 1 stop bit, no handshake

Transpondertype: 20