



### Model Number

**IQC21-85-T13**

Data carrier

### Features

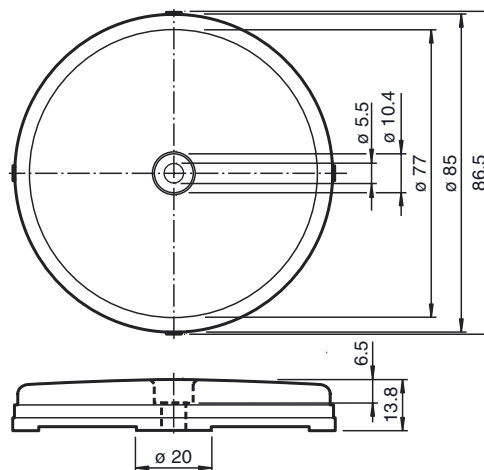
- Operating frequency 13.56 MHz
- Conforms to ISO 15693
- Degree of protection IP68 / IP69K
- With extended temperature range up to 220 °C (428 °F)
- Mounting holes for simple installation

### Accessories

**IQZ-MH-85**

Spacers for code/data carrier

### Dimensions



### Technical data

#### General specifications

Operating frequency	13.56 MHz
Transfer rate	26 kBit/s

#### Memory

Type/Size	EEPROM 112 Byte
Read cycles	unlimited
Write cycles	> 1000000 at 40 °C
Data retention period	10 years at 55 °C (131 °F)

#### Ambient conditions

Ambient temperature	-25 ... 100 °C (-13 ... 212 °F) 140 °C (413 K) for 20% reduction in limit of exposure zone 200 °C (473 K) for 5000 hours or 3000 cycles 220 °C (493 K) for 2000 hours or 1500 cycles
Storage temperature	-40 ... 100 °C (-40 ... 212 °F)
Shock and impact resistance	Vibration: 20 g Shock: 50 g

#### Mechanical specifications

Degree of protection	IP68 / IP69K
Material	PPS
Installation	
In metal	≥ 30 mm clearance (approx. 30% reduction)
Mass	approx. 50 g

#### Compliance with standards and directives

Standard conformity	
Degree of protection	EN 60529
Shock and impact resistance	Shock, vibration: EN 60721-3-7 Class 7M3
RFID	ISO/IEC 15693-1:2010, ISO/IEC 15693-2:2006, ISO/IEC 15693-3:2009, ISO/IEC 18000-3

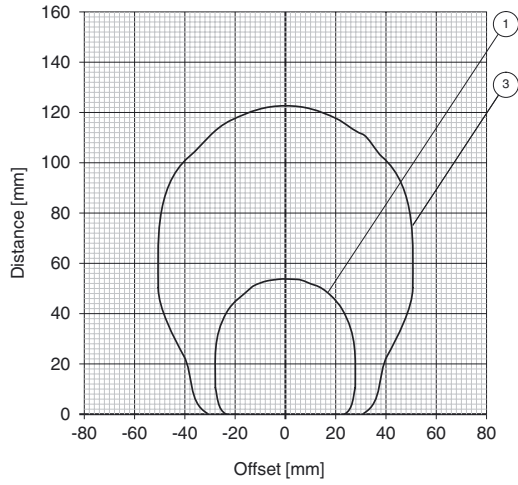
### Notes

A central M5 mounting screw is used to fix the holder. A metal screw can be used without significantly affecting the maximum range. Use a stainless steel screw at high temperatures. To prevent damage as a result of high temperatures, an additional spacer should be used. High temperatures (> 80 °C) will cause the enclosure to expand. If the enclosure is assembled under mechanical stress, the resulting pressure may damage the data carrier. The enclosure must be assembled loosely, taking into account the expansion coefficients of all materials. Reading and writing is not possible at ambient temperatures above 140 °C.

**Read/write distances**

- ① IQH1-18GM-V1    ② IQH1-F61-V1    ③ IQH1-FP-V1
- ④ IQH1-F15-V1

Reading range in air IQC21-85-T13



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