Model Number

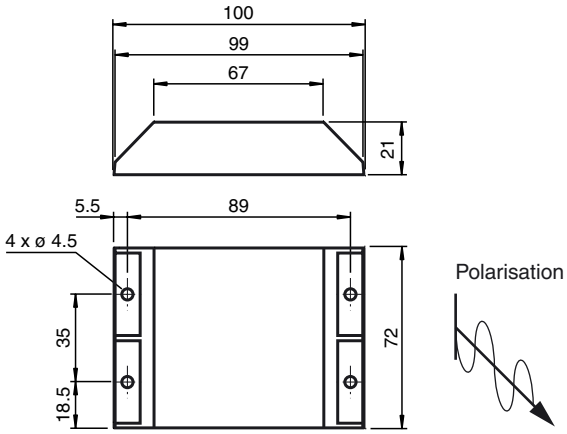
IUC71-F150-T11

Data carrier

Features

- Operating frequency 868 MHz
- Conforms to ISO 18000-6 B
- 216 byte memory available
- Sturdy housing, suitable for rough industrial use
- With an increased temperature range of up to 220 °C

Dimensions



Technical data

General specifications	
Operating frequency	865 ... 868 MHz
Polarization	linear
Memory	
Chip Type	ISO 18000-6B
Type/Size	EEPROM 256 Byte, of which 216 bytes for user data, unique 64 bit fixcode (UID) available
Read cycles	unlimited
Write cycles	> 100000 for 22 °C
Data retention period	10 years
Ambient conditions	
Ambient temperature	-20 ... 85 °C (-4 ... 185 °F)
Storage temperature	-20 ... 85 °C (-4 ... 185 °F) 190 °C (463 K) for 25 min 220 °C (493 K) briefly
Temperature cycles	1000 x (25 min. at 190 °C)
Mechanical specifications	
Protection degree	IP67
Material	
Housing	PPS (Polyphenylenesulfide)
Installation	preferably mountable on metal
Mass	150 g
Compliance with standards and directives	
Directive conformity	
R&TTE Directive 1995/5/EC	EN 301489-3:2002 , EN 60950-1:2006 , EN 300220-3:2000, EN 50364:2002
Standard conformity	
Electromagnetic compatibility	EN 302208-2:2008
Protection degree	EN 60529:2000
RFID	ISO/IEC 18000-6:2004

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Function

The IUC71-F150-T11 data carrier is a passive high temperature UHF transponder (868 MHz) for mounting on electrically-conductive surfaces and was designed especially for applications in the automobile industry. In this way, it can be used for the identification of skids and other transport fixtures in high temperature processes, such as e. g. in painting lines or galvanic coating systems.
For the area of application, the housing materials and housing structure (hps technology) were aligned to each other so that in spite of a low structural volume, the effects of high temperature of 190 °C for approx. 25 minutes and even 220 °C for a short time do not leave any damage on the transponder inlay or even a loss of data. Furthermore, the housing design is characterised by a high level of mechanical stability, high housing protection class and through the variety of possibilities for attachment. In addition, the data carrier is resistant against diluted mineral acids, lyes, aliphatic/aromatic hydrocarbons, fat, oil and is hydrolysis-resistant.
The design of the transponder antenna enables direct attachment to electrically-conductive surfaces without incurring a reduction in reading range. The data carrier can read from a distance of more than 4 m and, depending on settings, it can be written from a distance of more than 3 m. Up to 2048 Bits can be stored in the data carrier, depending on the application.

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