



1) Sensing surface



Basic features

Antenna type	Dipole
Approval/Conformity	CE WEEE EAC
EN 55022	Size 1, Cl. B
Principle of operation	Data carrier
Standards	EPCglobal™ Class 1, Gen 2 ISO 18000-6C

Electrical data

Data retention time/years	≥ 50
EN 61000-4-2/3/4/5/6	Severity level 4A/3A/1/1/1
Programming cycles	up to 25 °C: 100,000
Read cycles	Unlimited
Working frequency	902...928 MHz

Environmental conditions

Ambient temperature	-25...85 °C
Continuous shock load	yes
EN 60068-2-27, Shock	yes
EN 60068-2-32 Free fall	yes
EN 60068-2-6, Vibration	yes
IP rating	IP68
IP rating per DIN 40050	IP68 IPx9K
Storage temperature	-25...95 °C

Functional Characteristics

EPC memory, read/write	96 Bit
Memory type	EEPROM
TID memory, read-only	64 Bit
User data, read/write	512 Bit

Material

Housing material	PA 12, GF30
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Mechanical data

Application weight	5.00 g
Dimension	Ø 17.2 x 14 mm
Installation	on metal

UHF (860...960 MHz)
BIS U-142-A0/C1M-GY
Order Code: BIS0178

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Remarks

Values are under rated conditions unless otherwise specified.
Only when used together with the appropriate read/write head.
For installation requirements see corresponding read/write head.