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12 mm Wedge Transponder Digital Signature (DST)



Specifications:

Part Number		RI-TRP-B9WK-xx (xx= see REV table below)	
Functionality	Encryption		
Memory	88 bits		
Memory: Page 1	8 bits Password (user programmable and lockable)		
Page 2	8 bits Identification "ID" (user programmable and lockable)		
Page 3	32 bits Serial Number and Manufacturing Code (Factory programmed and locked)		
Page 4	40 bits Encryption Key (user programmable and lockable)		
Challenge	40 bits (random)		
Response	24 bits + 24 bits of SN with Cyclic Redundancy Check (CRC) on data		
Operating Frequency	134.2 kHz		
Modulation	FSK (Frequency Shift Keying) 134.2 kHz / 123.2 kHz		
Transmission Principle	HDX (Half Duplex)		
Power Source	Powered from the reader signal (batteryless)		
Typical Reading Range	≤ 20 cm **		
Typical Read Time	< 120 ms		
Reading Activation Field Strength @ 25 °C	132.5 dBμA / m		
Operating Temperature (Read)	-40 to +85°C		
Storage Temperature	-40 to +100°C (+175°C for 5 minutes)		
Case Material	Plastic		
Protection Class	IP 68		
EMC	Programmed code is not affected by normal electromagnetic interference or x-rays		
Signal Penetration	Transponder can be read through virtually all non-metallic material		
Mechanical Shock	IEC 68-2-27, Test Ea; 200 g, half sine, 3 ms, 6 shocks per axis		
Vibration	IEC 68-2-6, Test Fc; 10 - 500 Hz, 1.65 mm peak to peak, 10 g, 4 hours per axis		
Dimensions	12.0 mm + 0.2 mm * 6.0 mm + 0.2 mm * 3.0 mm ± 0.05 mm		
Weight	0.4 g		
Packaging	Bulk (2000 units / Box)		
REV.	MFC	Serial Number (Hex)	From To
05	10, 11, 12, 13, 14		000000 FFFFFFFF

** Depending on RF regulation in country of use, the Reader Antenna configuration used, and the environmental conditions.

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