

12 mm Wedge Transponder Digital Signature (DST)



Specifications:

Part Number		RI-TRP-B9)WK-xx (xx= s	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	То
05	10, 11,12, 13, 14		000000	FFFFF

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

For more information, contact the sales office or distributor nearest you. This contact information can be found on our web site at: http://www.ti-rfid.com

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