

*Product Bulletin*

## **TIRIS™ Keyring Tag**

### **Key Features**

- High grade security
- Unique ID code
- Challenge/response authentication
- Robust design
- Superior read range

### **Description**

The TIRIS keyring tag provides the secure and convenient link for effortless purchasing, for vehicle anti-theft systems, and access control. It includes a TIRIS 23 mm transponder which has been packaged to withstand the rough handling associated with key ring use.

The keyring tag is available in three versions: a read only version with a unique factory programmed identification code, a read/write version that can be re-programmed, and a version with a challenge/response authentication feature for the highest grade of security.

### **How it Works**

When the tag is placed in the read zone, an electronic dialog occurs between a reader and the tag. The tag provides a code which uniquely identifies and authenticates the tag owner.



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## SPECIFICATIONS:

MODEL	RI-TRP-RFOB	RI-TRP-WFOB	RI-TRP-BFOB
Functionality	Read Only	Read/Write	Encryption and Read Only
Memory (Bits)	64	80	88
Typical Read Range	Up to 60 cm	Up to 60 cm	Up to 20 cm
Typical Read Time	70 ms depending on RF regulation in country of use, and the Reader/Antenna configuration used		
Max. Field Strength	168 dBμA/m		
Case Material	Plastic (ABS)		
Drop Test	Dropped 10 times from a height of 1.90 m (4 ft 3 in) onto concrete		
Environmental Conditions	Resistant to most automotive fluids		
Operating Temperature	-40 to +85C	-25 to +70C	-40 to +85C
Storage Temperature	-40 to +85C	-40 to +85C	-40 to +85C
Dimensions (mm)	Transponder fob:	37.5 ± 0.3 x dia. 10.5 ± 1	
Weight (Grams)	4.5 ± 1		

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For more information call the sales or application center nearest you, or view our internet home page (<http://www.ti.com/mc/tiris>):

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