



Entrex  
Door  
Controls

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## External Swipe Style Card Reader

#34-51T2B

QTY = 1

### General Description

The Entrex Mdl. 51T2B External Swipe Style Card Reader (ESS) is a rugged metal housed reader designed for external applications.

It is configured to read the ISO Track 2 of any magnetic stripe card. It is activated by swiping a card through the slot. The ESS detects the encoded track and sends a signal to our EMF-1(M) which in turn unlocks and/or opens the door.

The EMF-1(M) sends a signal back to the 51T2B to turn the LED from Red to Green, confirming correct operation.

This card reader when used with our EMF-1(M) does not decode the information on the card, it simply confirms the presence of the mag stripe.

### Installation

This card reader should only be mounted vertically. The unit is supplied with two wood screws with wall plugs, and two machine screws for installing in metal frames.

Use the template to mark the two mounting holes and wire access hole. Drill holes, tap if necessary and then make wire connections.

Push the excess wire into the hole and mount card reader using supplied hardware.

Once installed, use the two supplied plugs to cover screw access holes.

Proceed with installation of other components, apply power and confirm proper operation.

### Connection Chart

Wire Colour	Function	EMF-1 Digital Conn
Black.....	Ground.....	1
Blue.....	Card Present...2	
Red.....	+5 Volt in.....4	
Orange.....	LED.....	5
Brown.....	Data.....	Not used
Yellow.....	Strobe.....	Not used
Green.....	.....	Not used
White.....	Logic High.....	Not Used
Screen.....	Ground.....	Bonded to cover

### Specifications

Model.....	51T2B
Material.....	Die cast metal enclosure, sealed for Exterior use.
Dimensions.....	4 1/2" H x 1 3/4" W x 1 1/2" D
Encoding.....	Standard Track 2 (ANSI)
Card Speed.....	40 - 1500 mm/s
Power Required.....	5VDC (supplied by EMF-1)
Mounting.....	Two #8-32 Machine screws
Temperature Rating.....	-40°C to +65°C
Bi-Colour L.E.D. ....	Built-in
Cable Type.....	10' x 4 Conductors, stranded.
Maximum Cable Lengths:	

Cable Size	Maximum Distance
24 AWG (No. 5).....	100' (30m)
22 AWG (No. 6).....	200' (60m)
20 AWG (No. 8).....	300' (90m)
18 AWG (No. 10).....	500' (150m)

### Warranty

Entrex guarantees the 51T2B to be free from manufacturing defects for 12 months from date of sale. If during the first 12 months the 51T2B fails to perform correctly, it may be returned prepaid to our factory where it will be repaired or replaced (at our discretion) without charge. Except as stated herein, Entrex extends no warranties expressed or implied regarding function, performance or service.



*Reader fixing template*



