



TMR - 3

Slimline Magnetic Stripe Card Reader

The TMR-3 is a low profile magnetic stripe card reader for all types of access control installation. Constructed in brushed stainless steel this unit combines simple elegance with a high degree of durability and ease of operation. Good all round access for installation and maintenance is provided by removing the one piece lid.



New Electronics

High levels of reliability and low power consumption are ensured by the new second generation circuitry with its enhanced read electronics allowing a very wide range of card swipe speeds to be used for improved performance with inexperienced users. This circuit board is deep conformally coated to provide excellent protection against moisture ingress.

Mounting

The slim unobtrusive design allows the unit to be mounted directly onto door mullions and into many other confined spaces.

Easily interfaced

The novel open collector Clock and Data output interfaces with most existing magnetic stripe access control and POS systems whilst allowing the use of long card reader cables when needed. The card programming determines the output format.

LED & Buzzer Functions

Clear status information is provided by the two LED indicators and the internal buzzer controlled by the host system. A built-in 3 second timer allows the buzzer to be used with "Free Access Doors" - thus providing a quiet environment even when the door is permanently unlocked.

Diagnostics

On reader power-up, the RDA/DATA, RDB/CLOCK outputs are then held low for 1 second and 0.2 second respectively for easy connection verification. Reader operation is then started.

Warranty

2 years warranty against defects in materials and workmanship.



- ▶ **STYLISH APPEARANCE**
- ▶ **STAINLESS STEEL CASE**
- ▶ **INTERNAL OR EXTERNAL USE**
- ▶ **CLOCK AND DATA OUTPUT**
- ▶ **LOW POWER CONSUMPTION**
- ▶ **INTERNAL BUZZER TIMER**
- ▶ **TWIN LED STATUS DISPLAY**
- ▶ **WIDE READ SPEED RANGE**
- ▶ **ECONOMICALLY PRICED**
- ▶ **HIGH OR LOW COERCIVITY**

Specification

Card Type:

Mag-stripe track 2 ABA 75 BPI F2F encoding with high or low coercivity (300-3900 oe)

Head Type:

Inductive

Typical read speed

ISO card track 2 - 10 cm/sec min (3.39ms/bit)
ISO card track 2 - 150 cm/sec max (226us/bit)

Status Indications

READY LED (red) reader active.
ENTER LED (green) access granted.
Internal Sounder 3 seconds max

Dimensions:

45mm x 109mm x 30 mm (width x height x depth)

Construction

2 part brushed stainless steel with single stainless steel lid fixing.

Power Supply:

4.0 - 5.5 VDC at 12.0ma.
Allows operation from 5 volt sources such as USB / dongles etc.

Environment

0-95% relative humidity non-condensing
0-50 deg. C.

Terminations:

Internal 5 way barrier strip connector

Interface signals :

Input signals - IND (LED's and sounder)
Input levels - $V_{il} = 1.0V$ max - $V_{ih} = 2.0-5.0V$
Internal pull-up resistor = 47k

Output signals (open collector) - RDA (data), RDB (clock)
Output levels - $V_{oh} = 5.0V$ - $V_{ol} = 0.8V$ max
Internal pull-up resistor = 10k on both signals.

Note all signals may be used in parallel with other units of a similar type.

Cable Distance

300 metres with Belden 9535 or equivalent.

Unit Weight:

222 gm.

Innovative Electronic Technology Ltd. reserves the right to change specifications without prior notice in pursuance of its policy of product development. This document does not form part of a contract or license unless by prior written agreement.

All trade names and trade marks are acknowledged as the property of their respective owners.



For further information please contact our sales office

**Innovative Electronic
Technology Limited**
IET House, Chestnut Close,
Potten End, Herts HP4 2RN

Telephone (01442) 878 777
Facsimile (01442) 878 778
Email: sales@ietgroup.com
Website: www.ietgroup.com