

# Product Data Sheet

## Soft Magnetic Card Reader

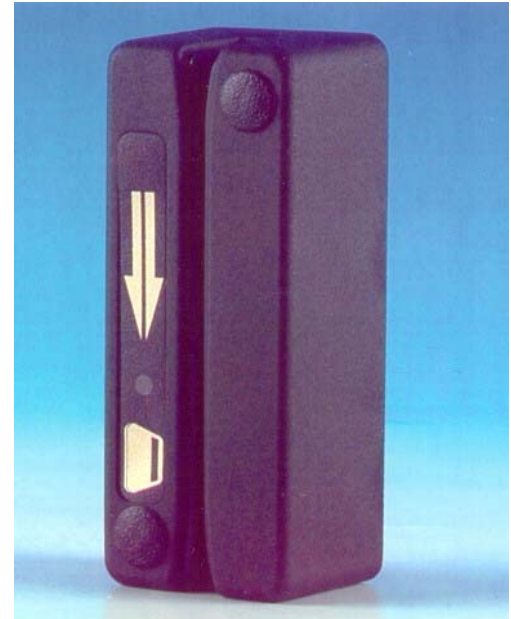
### Product Description

The MRS 51T2B is one of a range of rugged internal/external metal housed swipe card readers, which are configured to read ISO Track 2 of a magnetic stripe card.

The reader incorporates state of the art heated magnetoresistive read heads, LED indication and fully encapsulated electronics allowing operation in harsh environments.

Two output timing formats are provided for ease of interface.

The 51T2B reader features a tough black powder coated die cast metal cover with front fixing points- fixing screws and screw blanking plugs provided.



### Options in the 500 series include;

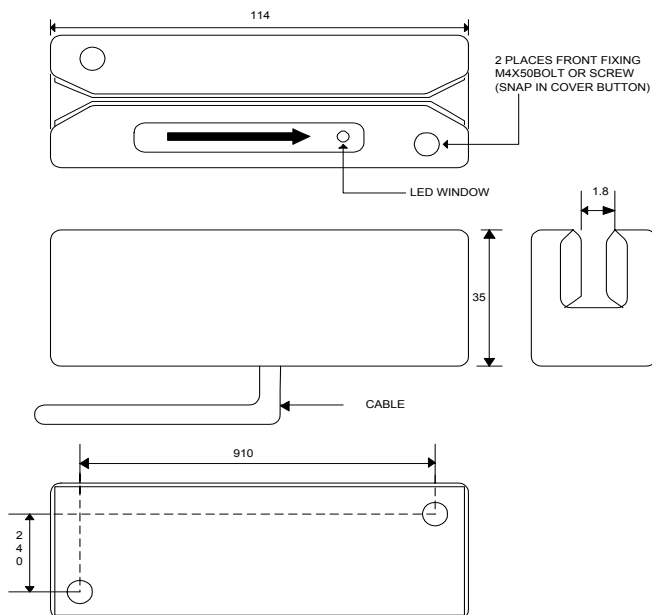
- RS232 and RS485 outputs
- Tri-LED and Bi-LED formats
- Cable and connectors to suit
- Low power versions
- Special output formats
- Customised versions for special applications
- Optional housing finishes  
Black, Silver, Grey, Satin Chrome, Polished Brass, Brushed Gold and Antique Bronze.  
Special Covers are available in any standard Pantone colour for a small additional charge.

### Specifications

Supply voltage (Vs)	4.5v-5.5v
Total supply current (Outputs disconnected)	40-50mA
Card speed	40-1500 mm/s
Output signal levels	<b>VoL = 0.4V</b> (IoL = 16mA) <b>VoH &gt; Vs-0.7V</b> IoH = -1mA)
Operating temperature	-30oC to + 70oC
Read head	Magnetoresistive (Heated)
Read head life	1 million swipes
Cable Length	3 metres (screened)
Housing	5000 series die cast

Mechanical Dimensions

ALL DIMENSIONS IN MILLIMETRES



**Ordering Information**

**Part Number;**

- 105027 Int/ext reader Tri-colour LED (Black)
- 105028 Int/ext reader Tri-colour LED (Chrome)
- 105029 Int/ext reader Tri-colour LED (Brass)
- 105030 Int/ext reader Tri-colour LED (Bronze)
- 105031 Int/ext reader Bi-colour LED (Black)
- 105032 Int/ext reader Bi-colour LED (Chrome)
- 105033 Int/ext reader Bi-colour LED (Brass)
- 105034 Int/ext reader Bi-colour LED (Bronze)

**Wiring Connections**

Red	Vs
Black	GND
Blue	Card Present
Yellow	Strobe
Brown	Data
Green	Not connected
Screen	Bonded to cover
Orange	Bi-colour LED control

**Output Timing Selection**

White	Logic high (or unconnected) Logic low
-------	---

**Morley Electronics Ltd.**  
Unit 34, Moorland Way,  
Nelson Park, Cramlington,  
Northumberland,  
NE23 1WE  
T: +44 (0) 1670 732444  
F: +44 (0) 1670 707333  
Email: [accesssales@morleyuk.co.uk](mailto:accesssales@morleyuk.co.uk)  
Web: [morleyuk.co.uk](http://morleyuk.co.uk)

*Morley Electronics operates a policy of continuous product improvement and reserves the right to change products without notice.*

**Presented by**

