

## **Mrf Proximity Card Reader Type 7600 (With High Security Encrypted Data Exchange)**

*Mrf* is a range of rugged proximity card readers which can be configured to support many types of output format. The readers incorporate state of the art **secure encrypted data**



**exchange.** Visual indication of reader state is established by means of 3 LED's and an internal sounder is provided for audible confirmation of card read. The fully encapsulated electronics are housed in a tough, all weather ABS case with front fixing points. Fixing screws and blanking plugs are provided.

### **Options available in the Mrf series range include:-**

- € ISO Clock & Data or Wiegand output
- € Proximity cards with Hi-Co magnetic stripe
- € Special output formats
- € Customised versions for special applications

### **Mrf PROXIMITY CARDS**

Proximity cards can be supplied in a variety of options, these include:-

- € Un-encoded state (Suitable for field programming)
- € Encoded for Wiegand simulation
- € Encoded for ISO Clock & Data output

Proximity cards provide the latest high security encrypted data exchange and can be re-programmed many times over. The cards are manufactured in a high quality gloss PVC and are suitable for overprinting. They also have a standard Hi-Co magnetic stripe which can be encoded for use with most MR Sensors magnetic card readers.

**ORDERING INFORMATION**  
**Part number - Grey Cover 2029011**  
**Part number - Beige Cover 2029012**

### Specifications

Supply Voltage (Vs)	5V -16V dc (12v recommended)
Total Supply current	40 - 50mA (outputs disconnected)
Card read range	60 - 100mm
Output signal levels	$V_{OL} = 0.4V$ ( $I_{OL} = 16mA$ ) $V_{OH} > V_s - 0.7V$ ( $I_{OH} = 1mA$ )
Operating Temperature	-20EC to +70EC
Cable length	0.5 metre (screened)
Housing	ABS
Electronics	Encapsulated

### Wiring Connections

Red	-	$V_s$
Black	-	GND
Blue	-	<u>CARD PRESENT</u>
Yellow	-	<u>STROBE</u> **(Wiegand - DATA 0)
Brown	-	<u>DATA</u> **(Wiegand - DATA 1)
Green	-	LED Control
Violet	-	Buzzer       Logic High - OFF Logic Low - ON
Orange	-	LED Control
Pink	-	LED Select (Tri-colour Bi-colour)
Turquoise	-	N/A
Grey	-	N/A

### LED Selection

Pink - High = Bi-colour	Pink - Low = Tri-colour
Orange High = Red	Orange/Green High = OFF
Orange Low = Green	Orange Low, Green High = Red
Green High N/A	Orange High, Green Low = Green
Green Low N/A	Orange Low, Green Low = Yellow

### Output Timing Selection

White	-	Logic High or unconnected Omron compatible
**	-	Applies to cards encoded for simulated Wiegand output format

