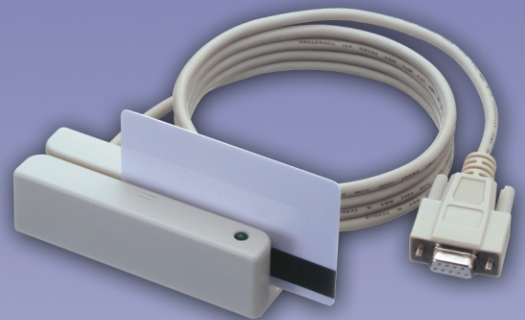


# Magnetic Stripe Card Readers



## MSR110 Series RS232 Interface

- Programmable track data output
- Downloadable firmware
- Read magnetic stripe cards conform to ISO 7811, AAMVA and custom data format
- Manual swipe, bi-directional
- Read high and low coercivity magnetic stripes (300-4000 Oe)
- LED and beeper for read status



## MSR112 Series RS232 Port Powered

- Powered from RS 232 port
- Programmable track data output
- Read magnetic stripe cards conform to ISO 7811, AAMVA
- Manual swipe, bi-directional
- Read high and low coercivity magnetic stripes (300-4000 Oe)
- LED and beeper for read status



## MSR210 Series Keyboard Interface

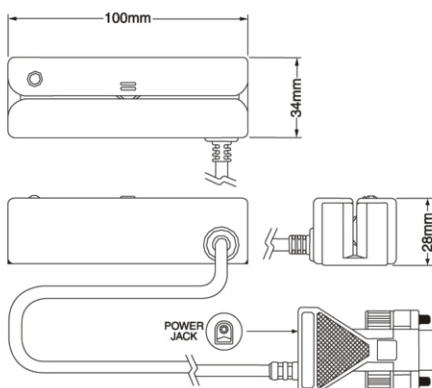
- Programmable track data output and on screen configuration set up
- Downloadable firmware
- Multi-language capability
- Read magnetic stripe cards conform to ISO 7811, AAMVA
- Manual swipe, bi-directional
- Read high and low coercivity magnetic stripes (300-4000 Oe)
- LED and beeper for read status



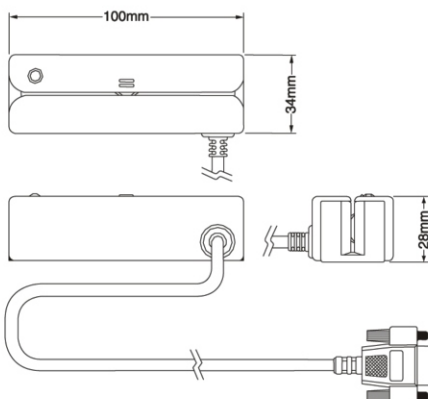
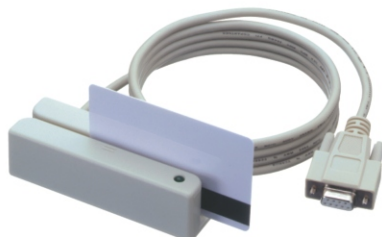
# MSR110/112/210 Series

## Magnetic Stripe Card Readers

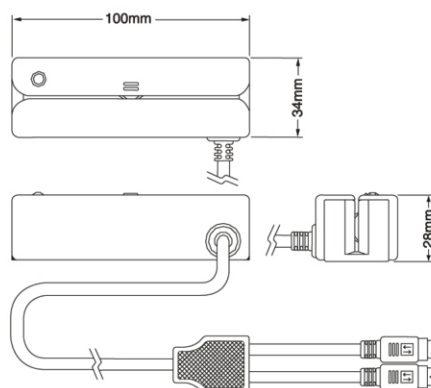
### MSR110 RS232 Interface



### MSR112 RS232 Interface ( port powered )



### MSR210 Keyboard Interface



| Specifications        |                                                                                     |              |            |
|-----------------------|-------------------------------------------------------------------------------------|--------------|------------|
| Model                 | MSR110                                                                              |              |            |
| Electrical            |                                                                                     |              |            |
| Power Requirement     | +5VDC ± 10%                                                                         |              |            |
| Power Consumption     | 90mA Max                                                                            |              |            |
| Interface             | Standard RS232                                                                      |              |            |
| Mechanical            |                                                                                     |              |            |
| Body Material         | ABS 94V-0                                                                           |              |            |
| Dimensions            | 100L x 34W x 28H mm                                                                 |              |            |
| Weight                | Approx. 120g                                                                        |              |            |
| Card Handling Method  | Manual swipe, Bi-directional                                                        |              |            |
| Environment           |                                                                                     |              |            |
| Operation Temperature | -10°C to +55°C                                                                      |              |            |
| Operation Humidity    | 10% to 90%                                                                          |              |            |
| Agency Approval       |                                                                                     |              |            |
| Ratings               | FCC/CE class A, UL, cUL                                                             |              |            |
| Performance           |                                                                                     |              |            |
| Test Card Types       | STD Card                                                                            | Jitter ± 15% | Amp. 60%   |
| Read Speed            | 5 ~ 55 ips                                                                          | 5 ~ 50 ips   | 5 ~ 50 ips |
| Card Types            | Magnetic cards as per ISO7810, 7811, AAMVA, JIS II & Custom data                    |              |            |
| Read Capability       | Magnetic stripe - single, dual or triple track of low/high coercivity (300~4000 Oe) |              |            |
| Card Thickness        | 0.76 ± 0.08mm                                                                       |              |            |
| Error Rate            | < 0.5%                                                                              |              |            |
| Magnetic Head Life    | 500K Swipes, 1 M life optional                                                      |              |            |

| Specifications        |                                                                                     |              |            |
|-----------------------|-------------------------------------------------------------------------------------|--------------|------------|
| Model                 | MSR112                                                                              |              |            |
| Electrical            |                                                                                     |              |            |
| Power Requirement     | Port powered                                                                        |              |            |
| Power Consumption     | 6mA Max.                                                                            |              |            |
| Interface             | Standard RS232                                                                      |              |            |
| Mechanical            |                                                                                     |              |            |
| Body Material         | ABS 94V-0                                                                           |              |            |
| Dimensions            | 100L x 34W x 28H mm                                                                 |              |            |
| Weight                | Approx. 120g                                                                        |              |            |
| Card Handling Method  | Manual swipe, Bi-directional                                                        |              |            |
| Environment           |                                                                                     |              |            |
| Operation Temperature | -10°C to +55°C                                                                      |              |            |
| Operation Humidity    | 10% to 90%                                                                          |              |            |
| Agency Approval       |                                                                                     |              |            |
| Ratings               | FCC/CE class A, UL, cUL                                                             |              |            |
| Performance           |                                                                                     |              |            |
| Test Card Types       | STD Card                                                                            | Jitter ± 15% | Amp.60%    |
| Read Speed            | 5 ~ 55 ips                                                                          | 5 ~ 50 ips   | 5 ~ 50 ips |
| Card Types            | Magnetic cards as per ISO7810, 7811, AAMVA                                          |              |            |
| Read Capability       | Magnetic stripe - single, dual or triple track of low/high coercivity (300~4000 Oe) |              |            |
| Card Thickness        | 0.76 ± 0.08mm                                                                       |              |            |
| Error Rate            | < 0.5%                                                                              |              |            |
| Magnetic Head Life    | 500K Swipes, 1 M life optional                                                      |              |            |

| Specifications        |                                                                                     |                  |            |
|-----------------------|-------------------------------------------------------------------------------------|------------------|------------|
| Model                 | MSR210                                                                              |                  |            |
| Electrical            |                                                                                     |                  |            |
| Power Requirement     | +5VDC $\pm$ 10% from PC KB port                                                     |                  |            |
| Power Consumption     | 90mA Max.                                                                           |                  |            |
| Interface             | Keyboard Simulator Interface                                                        |                  |            |
| Mechanical            |                                                                                     |                  |            |
| Body Material         | ABS 94V-0                                                                           |                  |            |
| Dimensions            | 100L x 34W x 28H mm                                                                 |                  |            |
| Weight                | Approx. 120g                                                                        |                  |            |
| Card Handling Method  | Manual swipe, Bi-directional                                                        |                  |            |
| Environment           |                                                                                     |                  |            |
| Operation Temperature | -10°C to +55°C                                                                      |                  |            |
| Operation Humidity    | 10% to 90%                                                                          |                  |            |
| Agency Approval       |                                                                                     |                  |            |
| Ratings               | FCC/CE class A, UL, cUL                                                             |                  |            |
| Performance           |                                                                                     |                  |            |
| Test Card Types       | STD Card                                                                            | Jitter $\pm$ 15% | Amp. 60%   |
| Read Speed            | 5 ~ 55 ips                                                                          | 5 ~ 50 ips       | 5 ~ 50 ips |
| Card Types            | Magnetic cards as per ISO7810, 7811, AAMVA                                          |                  |            |
| Read Capability       | Magnetic stripe - single, dual or triple track of low/high coercivity (300~4000 Oe) |                  |            |
| Card Thickness        | 0.76 $\pm$ 0.08mm                                                                   |                  |            |
| Error Rate            | < 0.5%                                                                              |                  |            |
| Magnetic Head Life    | 500K Swipes, 1 M life optional                                                      |                  |            |

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