

## EM2100SL Slimline Proximity Reader

### PRODUCT DESCRIPTION

The EM2100SL reader designed and manufactured by Nortech Control Systems Limited reads Nortech's own range of 125kHz type proximity cards and tokens as well as cards and tokens supplied by several access control equipment suppliers. The data output format can be set by the installer to either standard 26-bit Wiegand or Clock & Data (ISO2). An RS232 output option is also provided.

The weatherproof slimline reader can be located either indoors or outdoors and is quick and easy to install.

An ideal companion to Nortech's range of access controllers, the EM2100SL is the perfect choice of reader for new installations where compatibility with existing equipment isn't necessary. However, its compatibility with many standard access controllers as well as several 125kHz proximity cards and tokens also makes it a very competitive option for replacing/complementing existing equipment.



### SPECIFICATIONS

#### Electrical

Supply Voltage: 6Vdc to 24Vdc  
Current Requirement: < 70 mA

#### Physical

Dimensions (mm): 116 x 40 x 17 (H x W x D)  
Colour: Black  
Material: ABS Plastic - Stabilised against Ultra Violet Light  
Rating: IP66 - suitable for outdoor and indoor use

#### Environmental

Operating Temperature: -30°C - 50°C Ambient

#### Data Output

Wiegand: Standard 26-bit Wiegand  
Clock & Data: ISO2 Clock & Data  
RS232: 10 digits at 9600 bauds

#### Connection

Pigtail Cable Length: 3m  
Cable Gauge: 7/0.2, 0.22mm stranded  
Conductors: 8 core screened

#### Operational

Reading Range: Up to 80mm depending upon the type of token or card  
Buzzer Operation: Controlled by host controller (active low)  
LED Operation: One red 4mm LED and one green 4mm LED.  
Red LED normally on - blinks when token or card is read.  
Green LED lights when signal received from host controller on the LED line (active low)

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## Connection Details

<b>RED</b>	+V
<b>Black</b>	0V
<b>White</b>	Data 1/Clock
<b>Green</b>	Data 0/Data
<b>Blue</b>	RS232 serial data
<b>Yellow</b>	LED
<b>Orange</b>	Select Wiegand output (to +V) or Clock & Data output (to 0V)
<b>Brown</b>	Buzzer

## Alternative Products

<b>EM2100/V</b>	Vandal resistant proximity reader
<b>DP2200/SL</b>	Slimline <i>DualPROX</i> ® reader
<b>DP2200/V</b>	Vandal resistant <i>DualPROX</i> ® reader

## Ordering Information

<b>EM2100/SL</b>	Slimline proximity reader
<b>NP-CARD-PK</b>	Pack of 10 randomly numbered proximity cards blank on both sides, suitable for die-sublimation printing
<b>NP-CARD-RND-xxx</b>	Randomly numbered proximity card with custom artwork
<b>NP-FOB-RND</b>	Randomly numbered proximity key fob
<b>NP-FOB-RND-xxx</b>	Randomly numbered proximity key fob with custom artwork
<b>NP-CARD-S</b>	Sequentially numbered proximity cards blank on both sides, suitable for die-sublimation printing
<b>NP-CARD-S-xxx</b>	Sequentially numbered proximity card with custom artwork
<b>NP-FOB-S</b>	Sequentially numbered proximity key fob
<b>NP-FOB-S-xxx</b>	Sequentially numbered proximity key fob with custom artwork