

## SP1 Slimline Proximity Reader Series

### Product Description

The SP1 series comprises slimline style readers designed to fit most door mullion and architrave profiles. The slender weatherproof readers can be located either indoors or outdoors and are quick and easy to install.

The SP1 series is capable of reading a wide range of 125kHz type proximity cards and tokens. These may be from Nortech's own extensive range of electronic credentials, existing third party cards and tokens, or a combination of both depending upon the application. Each reader model can support one or more card technologies together with a selection of output formats. The series includes several dual technology models for simultaneously supporting two independent card technologies.

An ideal companion to Nortech's range of access controllers, the SP1 reader series offers the perfect choice of reader for new installations, while the wide choice of supported technologies and interfaces makes it an ideal cost-effective alternative for extending existing third party installations and for supporting the use of existing credentials in new access control applications.



### Features

- ◆ The series supports a wide variety of technologies to match customers' security requirements and budgets
- ◆ Some models simultaneously support two technologies providing a cost-effective means of migrating to a different technology without having to change out equipment and/or credentials
- ◆ Supports a range of data output format, making it compatible with most control systems
- ◆ Nortech offers a wide range of cards and tokens to match several reader technologies and applications
- ◆ Cards can be read at distances up to 80mm depending upon the chosen technology

### Benefits

- ◆ Finding the right reader for your application has been made much simpler by combining the flexibility of the reader series with the backup of Nortech's access control and proximity reader know-how
- ◆ Compatibility with most controllers reduces the cost of upgrades and extensions
- ◆ Offers cost savings by enabling existing cards and tokens to be re-used on new installations
- ◆ Combined with Nortech's access control systems, a flexible, robust and cost-effective solution can be configured to meet most small to medium access control applications

### Specifications

#### Electrical

Supply Voltage:	5VDC to 16VDC
Current Requirement:	70 mA maximum

#### 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
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#### Connection (Standard Version)

Pigtail Cable Length:	300mm
Cable Gauge:	7/0.2, 0.22mm stranded
Conductors:	8 core screened

#### Operational (Standard Version)

Reading Range:	Up to 80mm depending upon technology and the type of token or card
Audible indication:	Beeper controlled by host controller (active low)
Visual indication:	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)

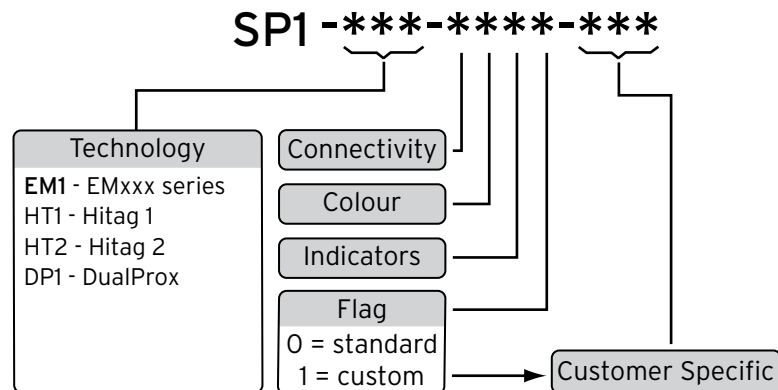
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## Standard Product Ordering

Order Code	Technology	Reads as Standard	Connection	Data Output Formats
<b>SP1-EM1-0000</b>	'EM' 125kHz	EMxxx variants, Temic/Atmel and Motorola credentials	300mm pigtail	Reader selectable 26-Bit Wiegand or 10-digit Clock & Data plus RS232 (10 digits at 9600 bauds)
<b>SP1-HT1-0000</b>	Hitag 1	Technogym 125kHz fobs	300mm pigtail	Reader selectable 26-Bit Wiegand or 10-digit Clock & Data plus RS232 (10 digits at 9600 bauds)
<b>SP1-HT2-0000</b>	Hitag 2	Paxton cards and fobs plus EM variants	300mm pigtail	Reader selectable 26-Bit Wiegand or 10-digit Clock & Data plus RS232 (10 digits at 9600 bauds)
<b>SP1-DP1-0000</b>	DualProx	Old style PAC fobs, new 125kHz type PAC cards and fobs plus EM variants.	300mm pigtail	Reader selectable 26-Bit or 44-Bit Wiegand plus PAC compatible serial data

The above models are shipped as standard but there are also a number of variants readily available to match customer requirements. Special variants can be developed upon request to read customer specific card formats and/or carry customer branding.

## Product Selection and Part Numbering



### Connectivity

- 0 = Pig Tail  
Available with all technologies
- 1 = Terminal Block  
Not available with this housing
- 2 = Cable 3m  
Available with all technologies

### Indicators

- Red LED - On when power connected
- Green LED - Normally off. Blinks when token or card is presented.
- Lights When LED line is pulled low.
- Beeper - beeps when card is presented and when beeper line is pulled low.

### Colours

- 0 = Standard (Black)

## Alternative Products

<b>MP1</b>	Mullion style proximity reader series
<b>VP1</b>	Vandal-resistant proximity reader series
<b>PP1</b>	Panel-mount proximity reader series