



Access Reader 8810



- ▶ **Aesthetic looking appearance**
- ▶ **Highly reliable and consistent read range characteristic with low power consumption in a single and easy to install package**
- ▶ **Models available supporting either HID proximity, 'EM' proximity, and MIFARE card technology**
- ▶ **Compliant with industrial standard 26-bit wiegand protocol to interface with any wiegand standard access control System**
- ▶ **Works well with Access Easy Controller**
- ▶ **Bicolored LED indicators for 'Power', 'Status', 'Alarm', and 'Armed' with audible buzzer**
- ▶ **Soft touch 16 keypads with 4 extra functions for time attendance, guard tour, or elevator control applications**
- ▶ **Attractive silver metallic front and pantone charcoal colored based enclosure for surface mounting.**

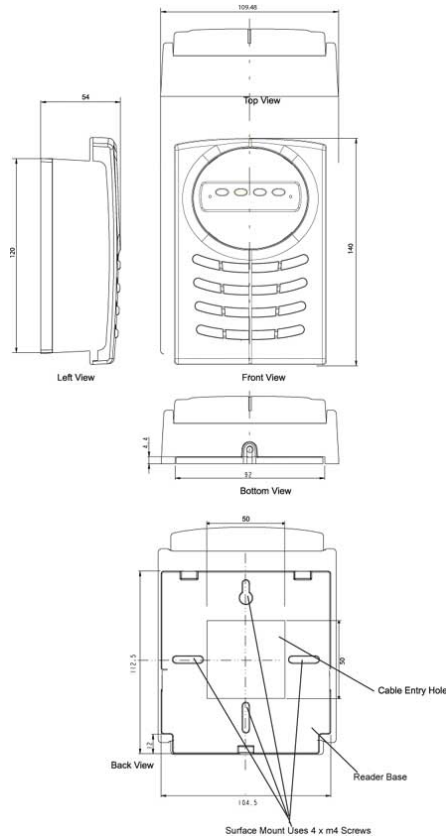
ARD 8810 provides an aesthetic looking, robust, reliable, versatile, and easily deployable solution for any card access controlled System using the industry standard 26-bit Wiegand protocol. Versatile model designs to support the current ID card technology from HID proximity, 'EM' proximity, or MIFARE contactless smartcard are available.

ARD 8810 enclosure house both a controller board and a separate HID proximity, 'EM' proximity, or MIFARE reader module allowing easy surface mounting and installation for either indoor or outdoor in any location. Its sealed polycarbonate enclosure, designed to withstand harsh environment, is both vandal and water proof. With a bicolored LED indicators for 'Power', 'Status', 'Alarm', and 'Armed' and a soft-touch 16 keypads with 4 extra functions for time attendance, guard tour, or elevator control applications. ARD 8810 is well suite for any physical access control System.

Readers using MIFARE technology is design to read the card serial number (CSN) from any MIFARE contactless smartcards for security authentication.

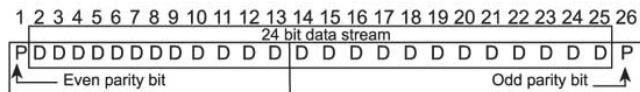
Installation/Configuration Notes

Dimensions



Wiegand Protocol

Wiegand Protocol (26 bits) - The 26 bits Wiegand format consists of a 26 bit long serial stream consisting of 24 data bits and leading and trailing parity bits. The leading bit in the stream is set to generate an even parity for the first 13 bits transmitted while the trailing bit is set to result in an odd parity for the final 13 bits transmitted.



P: Parity bits D: Data Bits
Wiegand 26-bit Data Protocol

Technical Specifications

Dimensions

| | |
|-----------------------|---|
| Enclosure (H x W x D) | 140 x 110 x 40 mm (5.512 x 4.431 x 1.575 inch) |
| Weight | 300 grams (10.537 oz) |

Environmental

| | |
|-------------------------|-------------------------------------|
| Relative Humidity | 0% to 90% non-condensing |
| Temperature (Operating) | 0 °C to +50 °C (32 °F to 120 °F) |
| Temperature (Storage) | 0 °C to +55 °C (32 °F to 130 °F) |

Controller Board

| | |
|-----------|-------------------------------------|
| Functions | Internal or external status control |
| LED | 4 external LED status control |
| Buzzer | 1 external buzzer status control |
| Tamper | 1 tamper monitoring |

HID Proximity Reader Module

| | |
|--------------------|---|
| Card Supported | 26 bits or 44-bits"EM" card |
| Transmid Frequency | 125 KHz |
| Excite Frequency | 125 KHz |
| Read Range | Up to 3 - 7,62 cm (1,5 - 3 inch) depends an cardtype and installation enviroment conditions |

"EM" Proximity Reader Module

| | |
|---------------------|---|
| Card Supported | 26 bits or 44-bits"EM" card |
| Operating Frequency | 125 KHz |
| Read Range | Up to 8 cm (3.15 inch) depends an cardtype and installation enviroment conditions |

MIFARE Reader Module

| | |
|---------------------|---|
| Card Supported | MIFARE card |
| Operating Frequency | 13,56 MHz |
| Communication | Bi-directional data transmission speed at 106 Kbit/sec. |
| Read Range | Up to 7 cm (3 inch) depends an card-type and installation enviroment conditions |
| Compliance | ISO 14443 Type A Standard |

Interface with Host Controller

| | |
|-----------|---|
| Interface | Industrial Standard 26-bits Wiegand Output (Data 0, Data 1, and Ground) |
| | Available only on MIFARE Reader - Optional switch selectable for either 26-bits or 34-bits Wiegand Output |

Cabling Conditions

| | |
|----------|---|
| Distance | Maximum 150 m (500 ft) to wiegand Host Controller |
|----------|---|

Color, Enclosure and Mounting

| | |
|--------------------|---|
| Color | Silver metallic front and pantone charcoal base |
| Enclosure Material | ABS (UL94V-0) fully waterproof |
| Mounting | Surfacemount Uses 4xm4 |

Power Requirements

| | |
|-------------------|-------------------|
| Power Supply | +12 V DC \pm 1% |
| Power consumption | 200 mA or more |

Ordering Information

| | |
|--|----------------------|
| ARD 8810W Reader HID 125 with Keypad Access Reader 8810 Wiegand HID Proximity Card Reader with 4x LEDs and keypads (APR) | ARD-8810W-HID |
| ARD 8810W Reader EM Prox with Keypad Access Reader 8810 Wiegand EM Proximity Card Reader with 4x LEDs and keypads (APR) | ARD-8810W-EM |
| ARD 8810W Reader Mifare with Keypad Access Reader 8810 Wiegand MIFARE Card Reader with 4x LEDs and keypads (26- bits/ 34-bits) (APR) | ARD-8810W-MIF |
| ACD 8000 Card EM blank Access Card 8000 EM ISO Blank ISO thickness 'EM' Proximity Card (APR) | ACD-8000B-EM |
| ACD 8000 Clamshell EM Access Card 8000 EM Clamshell Blank Clamshell type 'EM' Proximity Card (APR) | ACD-8000C-EM |
| ACD 8800 Card Mifare Access Card 8800 MIFARE (8K). Blank MIFARE contactless Smart Card (8Kbits) (APR) | ACD-8000B-MIF |

Europe, Middle East, Africa:

Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: +31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Americas:

Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Asia-Pacific:

Bosch Security Systems Pte Ltd
38C Jalan Pemimpin
Singapore 577180
Phone: +65 6319 3450
Fax: +65 6319 3499
apr.securitysystems@bosch.com
www.boschsecurity.com

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