BOSCH
Invented for life

Access Reader 8800

- **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**
- **Attractive silver metallic front and pantone charcoal colored based enclosure for surface mounting.**
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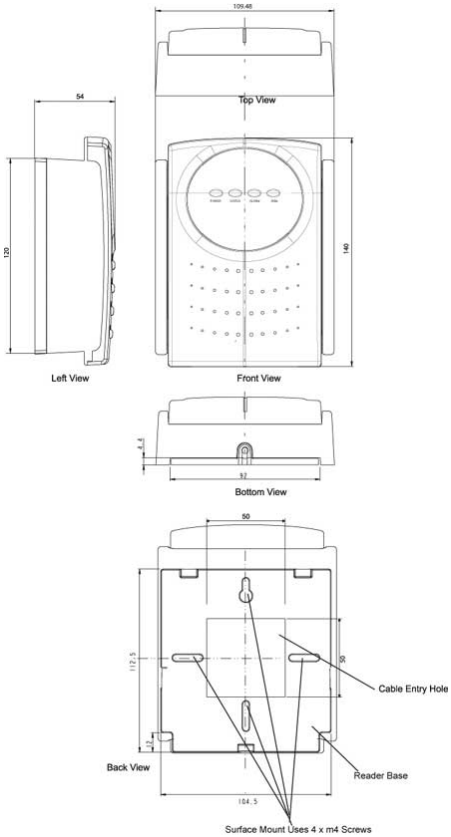
ARD 8800 provides an aesthetic looking, robust, reliable, versatile, and easily deployable solution for any card access controlled System using the industry standard 26-bit Wiegand protocol. Versatile model designs to support the current ID card technology from HID proximity, 'EM' proximity, or MIFARE contactless smartcard are available.

ARD 8800 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', ARD 8800 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.

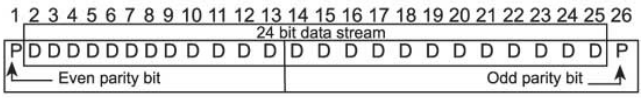
Installation/Configuration Notes

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

Weigand 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 monotoring

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 cardtype 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 +-1
Power consumption	200 mA or more

Ordering Information

ARD 8800W Reader HID 125 Access Reader 8800 Wiegand HID Prox ID Proximity Card Reader with 4x LEDs (APR)	**ARD-8800W-HID**
ARD 8800W Reader EM Prox Access Reader 8800 Wiegand EM Prox EM Proximity Card Reader with 4x LEDs (APR)	**ARD-8800W-EM**
ARD 8800W Reader Mifare Access Reader 8800 Wiegand MIFARE with 4x LEDs (26-bits/34-bits) (APR)	**ARD-8800W-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 Clam-shell type 'EM' Proximity Card (APR)	**ACD-8000C-EM**
ACD 8800 Card Mifare Access Card 8800 MIFARE (8K). Blank MI-FARE contactless Smart Card (8Kbits) (APR)	**ACD-8000B-MIF**

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