BOSCH

Invented for life

Access Reader 8000

- ▸ **Aesthetic looking appearance**
- ▸ **Supports 'EM' Proximity card technology**
- ▸ **Works well with Access Easy Controller**
- ▸ **Highly reliable and consistent read range characteristic with low power consumption in a single and easy to install package**
- ▸ **Compliant with industrial standard 26-bit wiegand protocol to interface with any wiegand standard access control system**
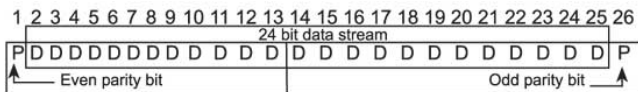- ▸ **Bicolored LED indicators with audible buzzer enhance user feedback**

ARD 8000 provides an attractive, affordable, small, compact, robust, reliable, and easily deployable solution for any card access controlled system using the industry standard Wiegand 26-bits protocol.

ARD 8000 allows easy surface mounting and installation for either indoor or outdoor in any location. Its sealed in a water proof enclosure. With a bicolored LED indicators and audible buzzer tone, user feedback is enhanced. ARD 8000 is well suite for any physical access control system.

Green	Data0	Wiegand Data Output 0
White	Data1	Wiegand Data Output 1
Gray	LED	Pull low to change LED color to green
R:ue	Beeper	Acitvate low
Orange	N/A	
Yellow	N/A	

Installation/Configuration Notes

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

Wire Assignments for 26 bits Wiegand format

Color	Vame_Descrption	
Red	V++	8.5V to 16V DC
Back	GND	Ground

Technical Specifications

Dimensions

Enclosure (H x W x D)	112 x 75 x 23 mm (4.41 x 2.95 x 0.91 inch)

Environmental

Relative Humidity	0% to 90% non-condensing
Temperature (Operating)	0 ℃ to +50 ℃ (32 ℉ to 120 ℉)
Temperature (Storage)	0 ℃ to +55 ℃ (32 ℉ to 130 ℉)

"EM" Proximity Reader

Card Supported	"EM" card
Operating Frequency	125 KHz
Read Range	Up to 7 cm (3 inch) depends an card-type and installation enviroment conditions

Interface with Host Controller

Interface	Industrial Standard 26-bits Wiegand Output (Data 0, Data 1, and Ground)

Cabling Conditions

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

Enclosure and Mounting

Enclosure Material	ABS (UL94V-0) fully waterproof
Mounting	Surface mount

Power Requirements

Power Supply	+8,5 V DC to +16 V DC
Power consumption	55 mA 12 V DC (typical)

Ordering Information

ARD 8000W Reader EM Prox Access Reader 8000 Wiegand EM Prox. EM Proximity Card Reader with 1x LED and buzzer (APR)	**ARD-8000W-EM**
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**