

ARD-AYCE65B

RFID - Proximity Card Reader



en Installation manual

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1 General Information

1.1 Introduction

The ARD-AYCE65B family is an Ultra-slim, vandal-resistant, Piezo Mullion Keypad, access control reader.

The unit is vandal resistant and water resistant, suitable for indoor or outdoor mounting.

This manual contains the following information:

- Installation
- Wiring instructions
- Operation Instructions

1.2 Box Content

Before beginning verify that all of the following is in the box. If anything is missing, please report the discrepancy to your nearest Bosch office.

- One ARD-AYCE65B unit
- Installation kit
- Installation and operating instructions

2 Technical Specifications

Specifications ARD-AYCE65B **Flectrical Characteristics** Power supply type Linear type - recommended Operating voltage range 5 - 16VDC Input current standby 92mA@12VDC max Input current 105mA@16VDC LED control input Dry contact N.O. Open collector, active low, 30mA Tamper output max sink current Cable distance to host Up to 500ft (150 meters) using an controller 18AWG cable 40mm (1.575 inch) Max proximity card read range* ASK at 125 KHz Proximity card modulation EM cards Proximity card compatibility Card Transmit format 26-bit Wiegand, or Clock & Data (Reader) **Keypad Transmit Format** Programmable PIN code formats (Reader) I FD indicators Two tri-colored LFDs Communication Data1/Clock, Data0/Data-TTL output **Environmental Characteristics** -30 to 65° C (-22 to 150° F) Operating temp. range Operating humidity 0 - 95% (non-condensing) Outdoor usage Weather-resistant, meets IP-68,

Mechanical

use

epoxy potted, suitable for outdoor

Specifications	ARD-AYCE65B	
Size	155 x 44 x 9mm	
(Height x Width x Depth)	6.1x1.73x0.354 inch	
Weight	143g(0.315lb)	

^{*}Measured using Bosch proximity card (ACD-ATR14CS) or equivalent. Range also depends on electrical environment and proximity to metal.

2.1 **Key Features**

The key features for the ARD-AYCE65B series are:

- Ultra-Slim Flush-mount design on flat surface
- Built-in piezoelectric keypad for PIN code entry
- Built-In 125 KHz ASK EM Proximity card reader
- Programmable Patented Blue backlit keypad
- Optical back tamper sensor and open collector tamper output.
- Internal buzzer provides audible interface feedback
- Two status / programming Interface LEDs (tri-colored)
- Fully potted construction for outdoor use
- Comes with mounting template for easier installation
- Comes with an installation kit that includes a security screw and a security screw tool

Reader

- Programmable keypad transmission format
- Programmable Card Transmission Formats: Clock & Data and 26-Bit Wiegand
- LED control input
- Programmable facility code

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3 Installation

Before starting, select the location to mount the ARD-AYCE65B. This location should be at shoulder height.

For wall mounting, use the included mounting template as a guide for drilling holes for mounting screws and wiring. For US Gang Box mounting, no drilling is necessary.



Figure 3.1 Drilling & Mounting Template

Route the interface cable from the ARD-AYCE65B to the controller. A linear type power supply is recommended. Screw the ARD-AYCE65B to its mounting location or US gang box.

4 Wiring Instructions

The unit is supplied with a 1.5 meter (60-inch) pigtail, having a 6-conductor cable. To connect the unit to the controller, perform the following:

Prepare the unit's cable by cutting the cable jacket back $1\frac{1}{4}$ inches and strip the wire $\frac{1}{2}$ inch. Prepare the controller cable by cutting the cable jacket back $1\frac{1}{4}$ inches and strip the wire $\frac{1}{2}$ inch.

Splice the unit's pigtail wires to the corresponding controller wires and cover each connection.

Refer to the wire color table below, and to the wiring diagram provided on the following page.

Reader	Color	Functionality
5~16 VDC	Red	+DC Input
Shield/ Ground	Black	Ground
Data 1 / Clock	White	Communication
Data 0 / Data	Green	Communication
LEDCTL	Brown	LED Control / Auxiliary Input
Tamper	Purple	Tamper

If the tamper output is used, connect the purple wire to the correct input on the controller.

Trim and cover all unused conductors

NOTICE!

 The individual wires from the unit are color-coded according the Wiegand standard.



- When using a separate Power Supply for the Reader, this Power Supply and that of the Controller must have a common ground.

 The Reader's cable shield wire should preferably be attached to an earth ground, or a signal ground connection at the panel, or power supply end of the cable. This configuration is best for shielding the Reader cable from external interference

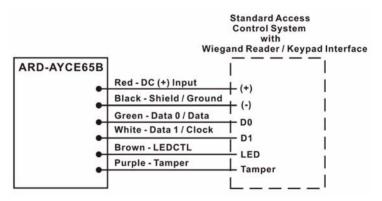


Figure 4.1 Reader Application Wiring Diagram

5 Reader Functionality

The following explains how to use the ARD-AYCE65B reader.

5.1 Transmit Mode

When the ARD-AYCE65B is in Transmit Mode, it is ready to receive data from a presented Proximity Card or an entered PIN code.

When the reader is in Transmit Mode, the Transmit LED is red and the Program LED is off.

When a Proximity Card or PIN entry is being transmitted, the Transmit LED will flash green.

PIN data can be sent via one of eight different Keypad Transmission Formats. For more information, see Selecting Keypad Transmission Format on page 13.

Proximity Cards presented to the reader are always sent in either 26-Bit Wiegand, Clock & Data or, Wiegand Card + PIN format. See Selecting Proximity Card Transmission Format on page 20 for more information.

5.2 Programming the ARD-AYCE65B Series

Programming the ARD-AYCE65B series is done solely via the unit's keypad driven Programming Menu System. To reach the Programming Menu System the ARD-AYCE65B must first be placed into Programming Mode. During the ARD-AYCE65B's manufacturing process certain codes and settings are preprogrammed. These settings are called the "Default Factory Settings".

The table below shows the names of all the ARD-AYCE65B Menus.

Programming Menu

Default Factory Settings are marked by a "*" sign.

Menu	Description	Default
1	Selecting Keypad Transmission Format	
	Single Key, 6-Bit Wiegand (Rosslare Format)	*
	Single Key, 6-Bit Wiegand with Nibble +	
	Parity Bits	
	Single Key, 8-Bit Wiegand, Nibbles	
	Complemented	
	4 Keys Binary + Facility Code, 26-Bit	
	Wiegand	
	1 to 5 Keys + Facility Code, 26-Bit Wiegand	
	6 Keys BCD and Parity Bits, 26-Bit Wiegand	
	Single Key, 3x4 Matrix Keypad	
	1 to 8 Keys BCD, Clock & Data	
2	Selecting Card Transmission Format	
	26-Bit Wiegand	*
	Clock & Data	
	Wiegand Card + PIN	
3	Changing the Programming Code	1234
4	Changing the Facility Code	0
6	Backlight Options	
	Off	
	On (Default)	*
	Off until key press when on for 10 seconds	
	Dimmed until key press when on for 10	
	seconds	
0	Return to Factory Default Settings	

Entering Programming Mode

- 1. Press the # key 4 times.
 - Transmit LED will turn off.
 - Program LED will turn red.
- 2. Enter your 4 digit Programming Code. If the Programming Code is valid, the door LED will turn green and the ARD-AYCE65B will be in Programming Mode.



NOTICE!

- The factory 4-digit Programming Code is 1234.
- If a Programming Code is not entered within 30 seconds, the ARD-AYCE65B will return to Transmit Mode.

Exiting Programming Mode

- 1. To exit the Programming Mode at any time press #:
 - You will hear a beep
 - The Program LED will be off
 - The Transmit LFD will turn red.
- 2. This indicates that the ARD-AYCE65B has returned to Transmit Mode.
- 3. Wrong entries may reset the reader back to Transmit Mode.

While in Programming Mode if no key is pressed for 30 seconds the ARD-AYCE65B will exit Programming Mode and return to Transmit Mode.

5.3 Selecting Keypad Transmission Format

The ARD-AYCE65B has eight different keypad transmission formats to select from. Follow the steps below to select the appropriate keypad transmission format that you wish to use.

- 1. Enter Programming Mode.
- 2. Press "1" to enter.

"The Transmit LED will turn Red.

- 3. Enter the appropriate option no. for the keypad transmission format that you wish to select (see table below).
 - If an incorrect option no. is entered the reader will return to Transmit Mode and the keypad transmission format will remain unchanged
- 4. Look on the next page for more information on keypad transmission formats.
- 5. System returns to Transmit Mode.
 - You will hear three beeps.
 - The Program LED will turn off
 - The Transmit LED will turn red

NOTICE!



- Only one keypad transmission format can be active at any one time.
- When using the keypad transmission format "1 to 8 keys BCD, Clock & Data" (Option 8) an additional input is required to specify the number of keys in the PIN code.

Keypad Transmission Format Option Number

See the table below to determine the Option Number for the Keypad Transmission Format you wish to select.

Keypad Transmission Format	Option
	Number
Single Key, 6-Bit Wiegand	1
Single Key, 6-Bit Wiegand with Nibble + Parity Bits	2
Single Key, 8-Bit Wiegand, Nibbles Complemented	3
4 Keys Binary + Facility Code, 26-Bit Wiegand	4
1 to 5 Keys + Facility Code, 26-Bit Wiegand	5
6 Keys BCD and Parity Bits, 26-Bit Wiegand	6
Single Key, 3x4 Matrix Keypad	7
1 to 8 Keys BCD, Clock & Data Single Key	8

* Option No. 1 is the default factory setting.

More information on each of the different keypad transmission formats is available below and on the following pages.

5.3.1 Option No. 1: Single Key, 6-Bit Wiegand

Each key press immediately sends 4 bits with 2 parity bits added.

Even parity for the first 3 bits and odd parity for the last 3 bits.

0 = 110100 = "A" *	6 = 101100
1 = 000010	7 = 101111
2 = 000100	8 = 110001
3 = 000111	9 = 110010
4 = 101001	? = 110111 ="B" *
5 = 101010	# = 011001 ="C" *

^{* =} Hexadecimal

5.3.2 Option No. 2: Single Key, 6-Bit Wiegand Nibble and Parities

Each key press immediately sends 4 bits with 2 parity bits added.

Even parity for the first 3 bits and odd parity for the last 3 bits.

0 = 000001	6 = 101100
1 = 000010	7 = 101111
2 = 000100	8 = 110001
3 = 000111	9 = 110010
4 = 101001	? = 110100 ="A" *
5 = 101010	# = 110111 ="B" *

^{* =} Hexadecimal

5.3.3 Option No. 3: Single Key, 8-Bit Wiegand Nibbles Complemented

Inverts the most significant bits in the message leaving the least 4 significant bits as Binary-Coded Decimal (BCD) representation of the key. The host system receives an 8-bit message.

0 = 11110000	6 = 10010110
1 = 11100001	7 = 10000111
2 = 11010010	8 = 01111000
3 = 11000011	9 = 01101001
4 = 10110100	? = 01011010 ="A" *
5 = 10100101	# = 01001011 ="B" *

^{* =} Hexadecimal

5.3.4 Option No. 4: 4 Keys Binary + Facility Code, 26-Bit Wiegand

Buffers 4 keys and outputs keypad data with a three digit facility code like a standard 26-Bit card output.

The facility code is set in Programming Menu number four and can be in the range 000 to 255. The factory default setting for the facility code is 000. (See changing the Facility Code on page 22 for more information.)

The keypad PIN code is 4-digit long and can range between 0000 and 9999. On the fourth key press of the 4 digit PIN code, the data is sent across the Wiegand Data lines as binary data in the same format as a 26-Bit Card.

If the ? key or the # key are pressed during PIN code entry, the keypad will clear the PIN code entry buffer, generate a beep and is ready to receive a new 4 digit keypad PIN code.

If the entry of the 4 digits keypad PIN code is disrupted and no number key is pressed within 5 seconds, the keypad will clear the PIN code entry buffer, generate a beep and is ready to receive a new 4 digits keypad PIN code.

(EP) FFFF FFFF AAAA AAAA AAAA AAAA (OP)

Where:

EP = Even parity for first 12 bits

OP = Odd parity for last 12 bits

F = 8-Bit Facility Code

A = 16-Bit code generated from keyboard

5.3.5 Option No. 5: 1 to 5 Keys + Facility Code, 26-Bit Wiegand

Buffers up to 5 keys and outputs keypad data with a facility code like a 26-Bit card output.

The facility code is set in Programming Menu number four and can be in the range 000 to 255. The factory default setting for the facility code is 000. (See changing the Facility Code on page 22 for more information.)

The keypad PIN code can be one to five digits long and can range between 1 and 65,535. When entering a keypad PIN code that is less than 5 digits long, the # key must be pressed to signify the end of PIN code entry. For keypad PIN codes that are 5 digits long, on the fifth key press of the 5 digit PIN code, the data is sent across the Wiegand Data lines as binary data in the same format as a 26-Bit Card.

If the ? key is pressed during PIN code entry or a PIN code greater than 65,535 is entered, the keypad will clear the PIN code entry buffer, generate a beep and is ready to receive a new 5 digit keypad PIN code.

If the entry of the 1 to 5 digit keypad PIN code is disrupted and no number key or # key is pressed within 5 seconds, the keypad will clear the PIN code entry buffer, generate a medium length beep and is ready to receive a new 1 to 5 digit keypad PIN code.

(EP) FFFF FFFF AAAA AAAA AAAA AAAA (OP)

Where:

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EP = Even parity for first 12 bits
OP = Odd parity for last 12 bits

F = 8-Bit Facility Code

A = 16-Bit code generated from keyboard

5.3.6 Option No. 6: 6 Keys BCD and parity bits, 26-Bit Wiegand

Sends buffer of 6 keys, adds parity and sends a 26-Bit Binary-Coded Decimal (BCD) message. Each key is a four bit equivalent of the decimal number.

The keypad PIN code must be 6 key presses long. On the sixth key press of the 6 digit PIN code, the data is sent across the Wiegand Data lines as a BCD message.

If the entry of the 6 digit keypad PIN code is disrupted and no number key is pressed within 5 seconds, the keypad will clear the PIN code entry buffer, generate a medium length beep and is ready to receive a new 6 digit keypad PIN code.

(EP) AAAA BBBB CCCC DDDD EEEE FFFF (OP)

Where:

EP = Even parity for first 12 bits
OP = Odd parity for last 12 bits

A = First key entered D = Fourth key entered
B = Second key entered E = Fifth key entered
C = Third key entered F = Sixth key entered

5.3.7 Option No. 7: Single Key, 3x4 Matrix Keypad (ARD-MDP64)

This unique mode is intended to let the host controller scan the ARD-AYCE65B keypad while still keeping the proximity card readers 26-Bit Wiegand or Clock & Data formats active.

An optional interface board must be used between the ARD-AYCE65B and the host system. Each key press is immediately sent on DATA0 as an ASCII character at a baud rate of 9600 bits per second.

When a key is pressed DATA1 is pulled "low" until the key is released at which point DATA1 will be set to "high". This allows the controller to detect the duration of the key press.

The ARD-MDP64 interface unit outputs the data received to 7 outputs emulating a keyboard. The interface unit will not affect any data that it receives from the proximity reader whether it is 26-Bit Wiegand or Clock & Data.

Key pressed = ASCII Value

0 = '0' (0x30 hex)	6 = '6' (0x36 hex)
1 = '1' (0x31 hex)	7 = '7' (0x37 hex)
2 = '2' (0x32 hex)	8 = '8' (0x38 hex)
3 = '3' (0x33 hex)	9 = '9' (0x39 hex)
4 = '4' (0x34 hex)	? = '*' (0x2A hex)
5 = '5' (0x35 hex)	# = '#' (0x23 hex)

5.3.8 Option No. 8: 1 to 8 Keys BCD, Clock & Data

Buffers up to 8 keys and outputs keypad data without a facility code like standard Clock and Data card output.

The keypad PIN code can be one to eight digits long. The PIN code length is selected while programming the reader for Option 8. The reader will transmit the data when it receives the last key press of the PIN code. The data is sent across the two data output lines as binary data in Clock & Data format. If the ? key or the # key are pressed during PIN code entry, the keypad will clear the PIN code entry buffer, generate a beep

and is ready to receive a new keypad PIN code.

If the entry of the digit keypad PIN code is disrupted and no number key or # key is pressed within 5 seconds, the keypad will clear the PIN code entry buffer, generate a medium length beep and is ready to receive a new keypad PIN code.



NOTICE!

When using the keypad transmission format "1 to 8 keys BCD, Clock & Data" (Option 8) an additional input is required to specify the number of keys in the PIN code.

Selecting Proximity Card Transmission 5.4 **Format**

The ARD-AYCE65B has three different proximity card formats to select from. Follow the steps below to select the appropriate Proximity Card reader transmission format that you wish to use.

- Enter Programming Mode.
- 2 Press "2" to enter Menu 2. The Transmit LED will turn red.
- 3. Enter the appropriate option number for the proxy card transmission format that you wish to select (options below).

If an incorrect option is entered the reader will return to Transmit Mode and the keypad transmission format will remain unchanged.

- 4. System returns to Transmit Mode
 - You will hear three beeps.
 - The Program LED will turn off
 - The Transmit LFD will turn red

Proximity Card Transmission Format Option Number:

Option 1: 26-Bit Wiegand Option 2: Clock & Data

Option 3: Wiegand Card + PIN

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"Wiegand Card + PIN" Transmission 5.5 **Format**

This unique mode is intended to let host controllers get card and keypad data simultaneously. This option overrules the selected Keypad Transmission Format and sends the keypad data as described below

After a card is presented to ARD-AYCE65B, the program LED starts to flash in Green and indicates that ARD-AYCF65B is waiting for the PIN code. If the entry of one to five digit keypad PIN code is disturbed and no digit key or # key is pressed within 5 seconds, the keypad will clear the card buffer and the PIN code entry buffer, generate a medium length beep and be ready to receive a new card.

The keypad PIN code can be one to five digits long in the range of 0 to 99,999. When entering a keypad PIN code, the # key must be pressed to signify the end of the PIN entry. When pressing the # key press, the data is sent by the Wiegand data lines. If the * key is pressed, the keypad will clear the card buffer and the PIN code entry buffer, generate a medium length beep and is ready to receive a new card.

AYC-Ex5 output card data in 26-Bit Wiegand with the following keypad data in 26-Bit Wiegand format.

Card Data: (EP) AAAA AAAA AAAA BBBB BBBB BBBB (OP)

Where:

FΡ Even parity for first 12 bits (A) OPOdd parity for last 12 bits (B)

PIN Data: (EP) 0000 AAAA BBBB CCCC DDDD EEEE (OP)

Where:

EΡ Even parity for first 12 bits OP Odd parity for last 12 bits

First key entered D Fourth key entered B = Second key entered E = Fifth key entered

C = Third key entered

If the PIN code is less than 5 digits, all the most significant nibbles are filled with 0.

Example: (EP) 0000 0000 0000 0000 AAAA BBBB (OP)

Where:

EP = Even parity for first 12 bits

OP = Odd parity for last 12 bits

A = First key entered

B = Second key entered

5.6 Changing the Programming Code

- 1. Enter Programming Mode.
- Press "3" to enter Menu 3.The Transmit LED will turn red.
- Enter the new 4 digit code you wish to set as the Programming Code
- 4. System returns to Transmit Mode
 - You will hear three beeps
 - The Program LED will turn off
 - The Transmit LFD will turn red



NOTICE!

- Programming Code can not be erased, i.e. the code 0000 is invalid and will not erase the Programming Code.
- The factory default 4-digit Programming Code is 1234.

5.7 Changing the Facility Code

- 1. Enter Programming Mode.
- 2. Press "4" to enter Menu 4.
 The Transmit I FD will turn red.
- 3. Enter the new 3-digit code you wish to set as the Facility Code
- 4. System returns to Transmit Mode
 - You will hear three beeps
 - The Program LED will turn off
 - The Transmit LED will turn red



NOTICE!

- Facility Code can be in the range of 000 to 255.
- The default Facility Code is 0.

5.8 Setting the Backlight

- 1. Enter Programming Mode
- 2. Press "6" to enter menu 6
 The Transmit LED will turn red
- 3. Enter the appropriate option number for the backlight option that you wish to select
 - "0" for always off
 - "1" for always on
 - "2" for 10 sec. backlight after a key is pressed otherwise off
 - "3" for 10 sec. backlight after a key is pressed otherwise dimmed
- 4. System returns to Transmit Mode
 - You will hear three beeps
 - The Transmit LED will turn red.

5.9 Return to Factory Default Settings



CAUTION!

You must be very careful before using this command! This will erase the entire memory and return all codes to their factory default setting.

- 1. Enter Programming Mode.
- Press "0" to enter Menu 0.
 The Transmit LED will Flash red.
 The Program LED will flash red.
- 3. Enter your 4 digit programming code
 - If the Programming Code is valid, all memory will be erased, you will hear three beeps and the controller will return to Normal Mode
 - If the Programming Code is invalid you will hear a long beep and the controller will return to Normal Mode without erasing the memory of the controller

5.10 Replacing a Lost Programming Code

In the event that the Programming Code is forgotten, the ARD-AYCE65B may be reprogrammed in the field using the following instructions:

- 1. Remove power from the reader.
- 2. Activate tamper by removing the reader from the wall or removing the reader's case.
- 3. Apply power to the reader.
- 4. You now have 10 seconds to enter Programming Mode using the factory default Programming Code 1234.

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6 Appendix

6.1 LED displays

Reader mode/action	Mode/Transmit LED (left hand side)	Door/Program LED (right hand side)
Transmit mode	(red)	0
Transmitting card or PIN	(flash green)	0
data	(Hash green)	
Entering programming mode		
1. Press 4 times the # key	0	(red)
2. Enter the 4 digit	\bigcirc	(green)
programming code)	(green)
Exiting programming mode		
Press #	(red)	0
		and a beep
Selecting keypad transmission	on format	
1. Enter programming mode	0	(green)
2. Press 1	(red)	(green)
3. Enter the no. for the		
keypad transmission format.		
4. Back to transmit mode	(red)	0
		and three beeps
Selecting Proximity Card tra	nsmission format	
1. Enter programming mode	0	(green)
2. Press 2	(red)	(green)
3. Enter the no. for the prxy		
card transmission format.		
4. Back to transmit mode.	(red)	\circ
	- (.33)	and three beeps
Changing the Programming of	ode	

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Reader mode/action	Mode/Transmit LED	Door/Program LED		
	(left hand side)	(right hand side)		
1. Enter programming mode	0	(green)		
2 Press 3	(red)	(green)		
3. Enter the new 4 digit code				
4. Back to transmit mode	(red)	0		
		and three beeps		
Changing the Facility code				
1. Enter programming mode	0	(green)		
2. Press 4	(red)	(green)		
3. Enter the new 3 digit code		_		
4. Back to transmit mode	(red)	0		
		and three beeps		
Setting the backlight				
1. Enter programming mode	0	(green)		
	(no al)	()		
2. Press 6	(red)	(green)		
2. Press 63. Enter the no. for the	(red)	(green)		
	(rea)	(green)		
3. Enter the no. for the	(red)	0		
3. Enter the no. for the backlight option 4. Back to transmit mode	(red)	(green) and three beeps		
3. Enter the no. for the backlight option	(red)	0		
3. Enter the no. for the backlight option 4. Back to transmit mode	(red)	0		
3. Enter the no. for the backlight option 4. Back to transmit mode Return to Factory Default Se	(red)	and three beeps		
3. Enter the no. for the backlight option 4. Back to transmit mode Return to Factory Default Se 1. Enter programming mode	(red) ttings (flash red)	and three beeps (green)		
3. Enter the no. for the backlight option 4. Back to transmit mode Return to Factory Default Se 1. Enter programming mode 2. Press 0	(red)	and three beeps (green)		

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6.2 Technical Support

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