

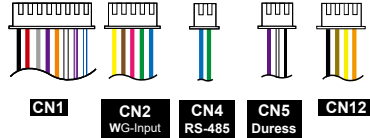
Contents

AR-888-H: Flush-Mount Touch Keypad Access Controller - LED Ring (Green/Red Only)

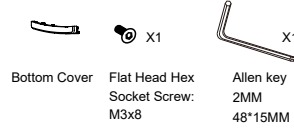
1 Product (US/EU)



2 Terminal Cables



3 Tools



4 Easy Install Kit (By Order)

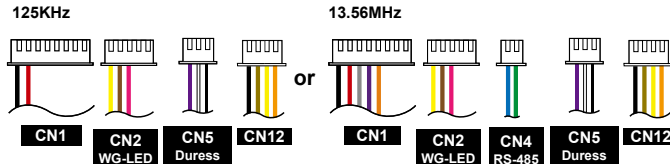


AR-888-K/U: Flush-Mount Proximity Reader- LED Ring (Green/Red Only)

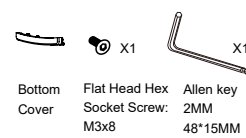
1 Product (US/EU)



2 Terminal Cables



3 Tools



4 Easy Install Kit (By Order)



AR-888-PBI: Touchless Infrared Button - LED Ring (Standard: Green/Red ; By Order: Blue/Red)

1 Product (US/EU)



2 Terminal Cables

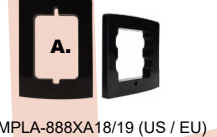
(S/N since 1609XXXXXX)

CN1 Terminal Connector					
NO.	1	2	3	4	5
Printing	V	G	NC	COM	NO
Function	Power	Relay	Output		
Description	12VDC	V-	N.C.	COM	N.O.

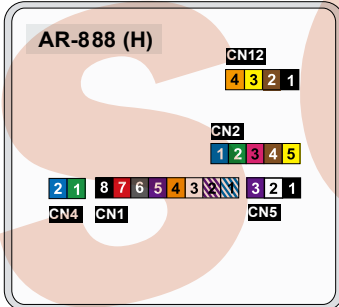
3 Tools



4 Easy Install Kit (By Order)



Connector Table



888-H Cable : CN1

Wire Application	Pin	Color	Description
Lock Relay	1	Blue White	(N.O.) DC24V1Amp
	2	Purple White	(N.C.) DC24V1Amp
Common-COM-Point	3	White	(COM) DC24V1Amp
Door contact	4	Orange	Negative Trigger Input
Exit Switch	5	Purple	Negative Trigger Input
Alarm Relay	6	Gray	Low output; Max 12V/100mA (Open Collector)
Power	7	Thick Red	DC Power 12V
	8	Thick Black	DC Power 0V

888-K/U Cable : CN1

Wire Application	Pin	Color	125kHz Description	13.56MHz Description
Output Selection	4	Orange	---	SET2
	5	Purple	---	SET1
Card Present	6	Gray	---	Reading card Active Low
Power	7	Thick Red	DC Power 12V	DC Power 12V
	8	Thick Black	DC Power 0V	DC Power 0V

Cable : CN2

Wire Application	Pin	Color	888-H Description	888-K/U (125kHz , 13.56MHz) Description
Wiegand	1	Thin Blue	Wiegand DAT:1 Input	---
	2	Thin Green	Wiegand DAT:0 Input	---
Beeper	3	Pink	Beeper Output 5V/100mA, Low	Beeper Output 5V/100mA, Low
LED	4	Brown	LED Green Output 5V/20mA, Max	LED Green Output 5V/20mA, Max
	5	Yellow	LED Red Output 5V/20mA, Max	LED Red Output 5V/20mA, Max

Cable : CN4

Wire Application	Pin	Color	888-H Description	888-K/U (13.56MHz) Description
RS-485 Port	1	Green	RS-485(B-)	RS-485(B-)
	2	Blue	RS-485(A+)	RS-485(A+)

888-H Cable : CN5

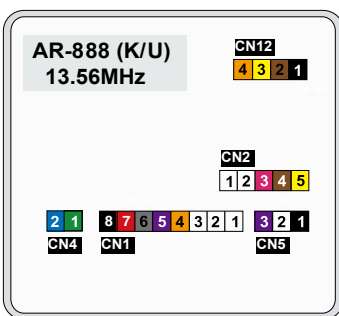
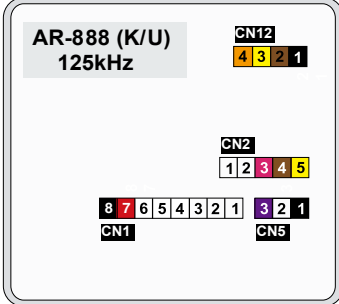
Wire Application	Pin	Color	Description
3-PIN Connector	1	Black	GND.
	2	White	Duress
	3	Purple	Arming/ Security trigger signal

888-K/U (125kHz , 13.56MHz) Cable : CN5

Wire Application	Pin	Color	Description
GND.	1	Black	GND.
	2	White	WG 0 Output
WG Output	3	Purple	WG 1 Output

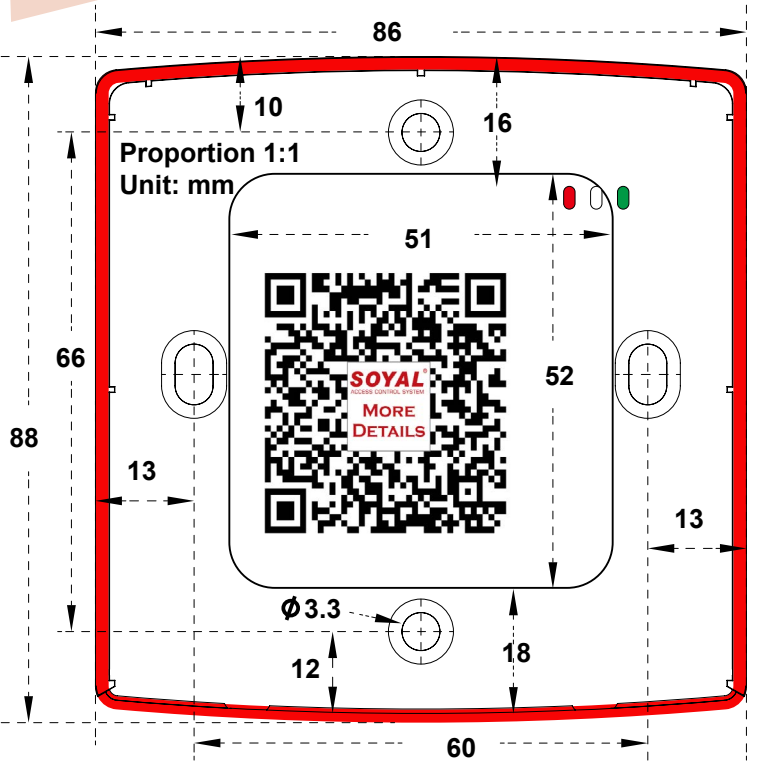
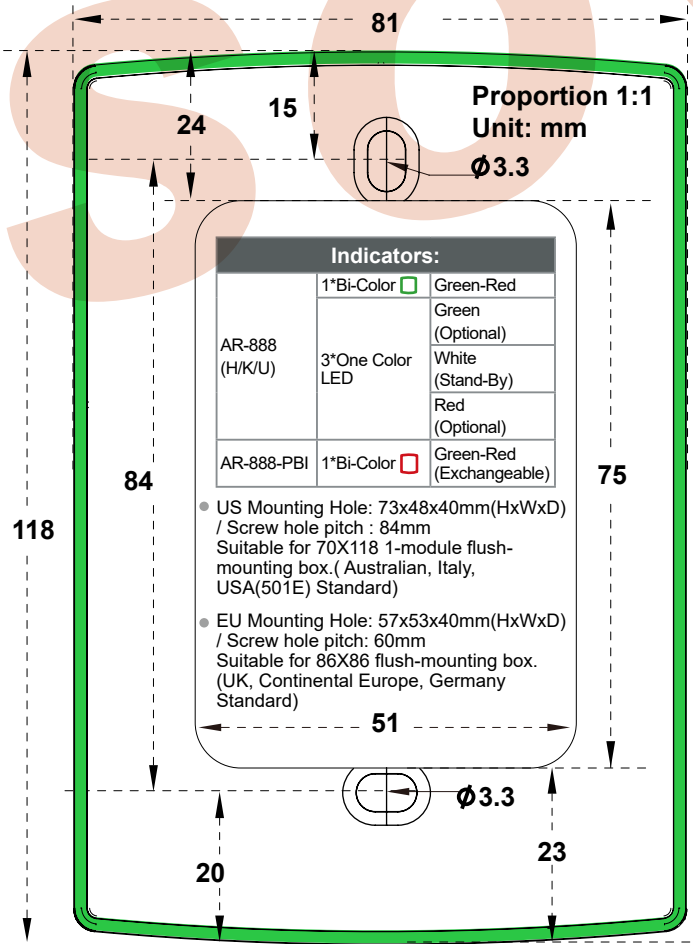
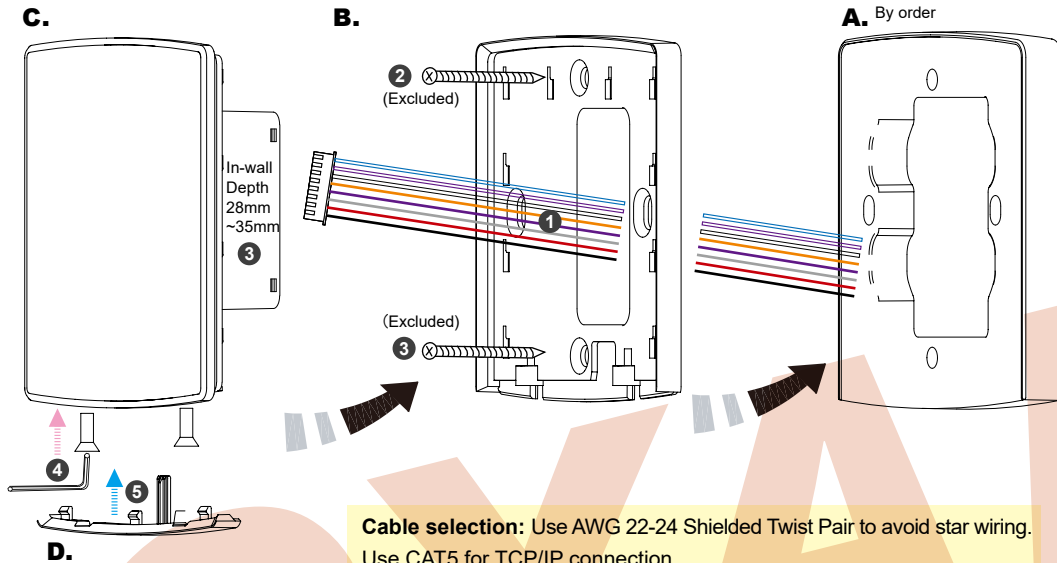
Cable : CN12

Wire Application	Pin	Color	888-H Description	888-K/U (125kHz , 13.56MHz) Description
GND.	1	Black	GND.	GND.
LED	2	Brown	GLEED Input (Active High)	GLEED Input (Active High)
	3	Yellow	RLED Input (Active High)	RLED Input (Active High)
Tamper	4	Orange	Tamper Switch(Active Low)	Tamper Switch(Active Low)



Installation

- Pull the cables from the square holes of the eva foam gasket and mounting plate.
- Use a screwdriver to screw the mounting plate **B** onto the wall with Flat Head Cap Philips Tapping Screws (Excluded, the Installer should prepare before installation).
- Connect the cables to the backside of body **C** and attach **C** to **B** at lower position of **B**. Push **C** up to make the cogging hooked completely.
- Use the Allen key and screws to assemble the body **C** onto the mounting plate **B**. Attach the Back Cover **D** to **C**.
- **Hands-off and clear any objects around the 888-H/K.** Turn on the power and LED will light-up and beep will sound. Wait the Touch IC start for 10 sec. to operate.



Basic Commands

Enter program mode

* 123456 #

Change program code

Input 6-digit PWD twice

09 * 654321654321 #

Add Card User

(Please list down each User Address and its Card ID)

User Range: 00000~03000

M4/M8 Mode

19 * 00001 * 00001 #

M6 Mode (Must set up 17*0000#)

22 * 1 #

Ex.: 00001 start user address at 00001 and scanned 50 pcs of card one by one; next time, input 19*00051*00001#

Attach/Present Card One by One

Add PIN User

PIN=0000 (Disable)

M4/M8 Mode (4/8 beeps while entering program mode)

12 * 00001 * 1234 #

M6 Mode (6 beeps)

15 * 1234 #

Add Card+PIN User

PIN=0000 (Disable)

M4/M8 Mode

13 * 00001 * 4321 #

M6 Mode

17 * 4321 #

Set up Door Relay Time

TTT: 001~600=1~600 sec.
601~609=0.1~0.9sec.
000=On/ Off (Latch)

02 * 007 #

Set up Door Close Time

TTT: 001~600=1~600 sec.

18 * 015 #

Exit program mode

* #

Delete Card User

User Range: 00000~03000

M4/M8 Mode

10 * 00001 9 00005 #

M6 Mode

10 * 00001 * 00005 #

Ex.: 00001 start user address at 00001 00005 end user address at 00001 Totally 5 user cards will be disabled.

Delete All User Cards

29 * 29 * #

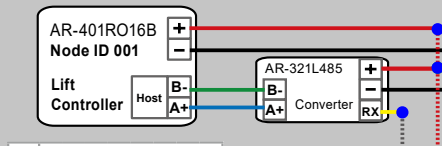
Reset to Factory Default Value

(Delete all cards and parameters)

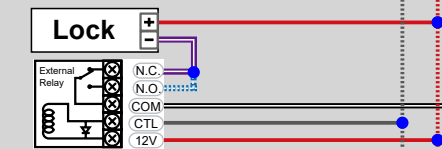
29 * 20 * #

Wiring Diagrams

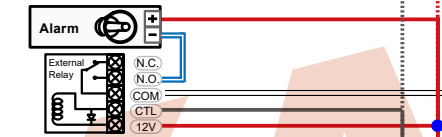
Alarm Output 3-Lift Control Wiring



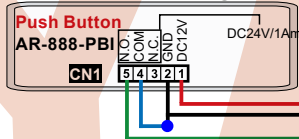
Alarm Output 2- WG Dual Door Control Wiring



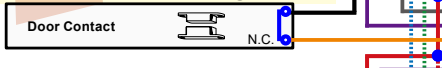
Alarm Output 1- Alarm Wiring



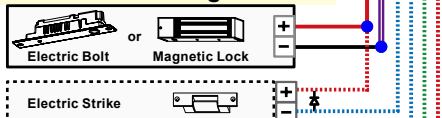
Exit Button Wiring



Door Sensor Wiring



Door Lock Wiring



WG Reader Wiring

AR-888 (K/U)
125kHz WG/ABA/RS232 Format
(By order or changeable by shorted on PCB)

Format	WG	RST/Bits
WG 26	Open	Open
WG 34(default)	Open	Short
ABA-8	Short	Short
ABA-10	Short	Open

AR-888 (K/U)
13.56MHz WG/ABA Format
(Change by wires connection)

Format	SET 1	SET 2	Note
WG 26	Open	Open	HEX
WG 34	Open	To GND	HEX
ABA-10	To GND	Open	BCD10
ABA-5-5	To GND	To GND	BCD

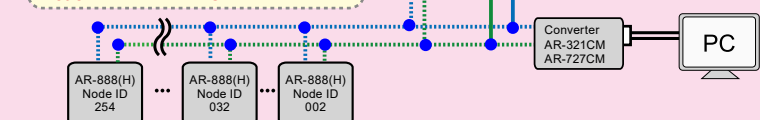
Set up Node ID

Ex. Node 32 connected to PC
00 * 032 * 032 * 032 #
00 * 009 #

032=Node ID of Access Controller
032=Virtual 716E Node ID
032=Door number
(All Range:001~254)
009=Node ID of Access Controller
Range: 001~254)

Networking Connection Wiring

Notice:
● At every 32 units or at every 300M connection to add a RS485 Booster.
● Suggest to connect up to 32 units for each CH of AR-727CM



Enable Life Control

24 * 002 # (Enable)
24 * 000 # (Disable)

Assign Users (Single Floor)

27 * UUUUU * FF #

UUUUU=User Address=00000~03000
FF=Floor number=1~32

Assign Floor User (Multi-Floor)

21 * UUUUU * S * FFFFFFFF #

S=Set=0~3
FFFFFFF=0 (Disable) / 1 (Enable)

Occupied Alarm Output to support

28 * 064 # (Enable)
28 * 128 # (Disable)

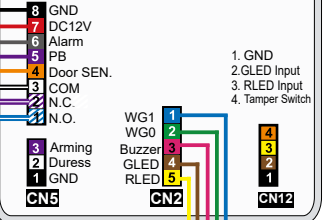
Enable Door Open Too Long Alarm

Enable Arming while exit program mode * * #

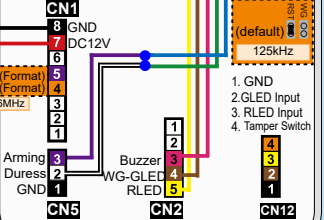
Stop Alarm by Push Button

24 * 064 # (Enable)
24 * 000 # (Disable)

AR-888 (H)
Stand-Alone /Networking Controller



AR-888 (K/U)
WG Reader



Flush-Mounted Series

Command List

Function	Command	Description	Mode
Enter program mode	* P P P P P #	PPPPPP=Master Code, default value=123456	M4/M6/M8
Exit program mode	* #		M4/M6/M8
Exit program mode and enter arming mode	* * #		M4/M8
Node ID setting (Connected to 716E)	00 * N N N #	NNN=Node ID of Access Controller (range: 001~016)	M4/M8
Node ID setting (Connected to the PC directly without 716E)	00 * N N N * V V V * n n n #	NNN=Node ID of Access Controller (range: 001~254) VVV=Virtual 716E Node ID, nnn=Door number (range:001~254)	M4/M8
Mifare tag / card format (Optional)	01 * N #	N: 0=ISO14443A; 1=ISO14443B; 2=ISO15693; 3=I Code1; 4=I Code2 PS.1. Please select the transmission standard first. 2. Ensure both reader and card using the same transmission standard.	M4/M8
Door Relay Time setting	02 * T T T #	TTT=Door relay time 000= Output continuously 001~600=1~600 sec. 601~609=0.1~0.9 sec.	M4/M6/M8
Alarm Relay Time setting	03 * T T T #	TTT=Alarm relay time 000= Output continuously 001~600=1~600 sec.	M4/M6/M8
Control mode setting	04 * N #	N=4: M4; N=6: M6; N=8: M8	M4/M6/M8
Arming Delay Time setting	05 * T T T #	TTT=the buffer time before entering arming mode 001~600=1~600 sec.	M4/M6/M8
Alarm Delay Time setting	06 * T T T #	TTT=the buffer time before the alarm is activated 001~600=1~600 sec.	M4/M6/M8
Master card (Administrator) setting	07 * S S S S * E E E E #	SSSS-EEEE=00000-01023 (00000-03000 for AR-725H); SSSS=Starting User Address; EEEE=Ending User Address	M4/M8
Auto-open time zone setting	08 * N * H H M M h h m m * 7 1 2 3 4 5 6 H #	N= 0 (1st time zone) / 1 (2nd time zone) HHMM= Starting time; hhmm= ending time (i.e.: 08301600=08:30 to 16:00) 7123456H= 7 days of week (Sun/Mon/Tue/Wed/Thu/Fri/Sat)+ Holiday (H= 0: disable; 1: enable); Holidays can be set by 701Client software.	M4/M6/M8
Master code setting	09 * P P P P P R R R R R #	PPPPPP=6-digit new master code RRRRRR=Reconfirm the new master code	M4/M6/M8
Suspend / Delete tag	10 * S S S S * E E E E # (M6) 10 * S S S S 9 E E E E # (M4/M8)	* =Suspend 9 =Delete; SSSS=Starting User Address, EEEE=Ending User Address	M4/M6/M8
Add a batch of sequential cards by inputting card number (M6)	11 * S S S S * E E E E #	SSSS=Starting card number EEEE=Ending card number	M6
Recover the suspended cards	11 * S S S S * E E E E #	SSSS=Starting User Address EEEE=Ending User Address	M4/M8
Set the access mode of the user at the designated User Address as "Card or PIN"	12 * U U U U * P P P P #	Access mode: Card or PIN ; UUUUU=User Address; PPPP=4-digit private PIN (0001~9999); 0000=Card Only for this user	M4/M8
Set the access mode of the user at the designated User Address as "Card & PIN"	13 * U U U U * P P P P #	Access mode: Card & PIN ; UUUUU=User Address; PPPP=4-digit private PIN (0000~9999)	M4/M8
Arming Pulse Time setting	14 * T T T #	TTT=Arming output time; 000=output continuously 001~250=0.1~2.5 sec.	M4/M8
M4/M8:Duress code setting M6:Public PIN setting for access mode "Card or PIN"	15 * P P P P #	PPPP=4-digit duress code (0001~9999; default value=4321; 0000 =disable the function of simply inputting PIN to get access in M6)	M4/M6/M8
Card number modification	16 * U U U U * S S S S C C C C #	UUUUU= User Address; SSSSS=5-digit site code; CCCC=5-digit card code	M4/M8
M4/M8:Arming PWD setting M6:Public PIN setting for access mode "Card & PIN"	17 * P P P P #	PPPP=4-digit Arming PWD (0001~9999; default value=1234; 0000 = access mode will become "Card Only" in M6)	M4/M6/M8
Door Close Time	18 * T T T #	TTT=Door Close Time: 001~600=1~600 sec.; default value: 15 sec.	M4/M6/M8
Add card by presenting(M4/M8)	19 * U U U U * Q Q Q Q #	UUUUU=User Address; QQQQ=Card quantity (0001 : for adding a single card or a batch of random numbering cards)	M4/M8
Reader additional setting	20 * D D D #	Please refer to function default value for details.	M4/M6/M8
Lift control setting: multi-floor	21 * U U U U * S * F F F F F F #	UUUUU=User Address, S=4 sets of lift control (0~3); FFFFFFFF=8 assigned floor (F=0: Disable, 1: Enable)	M4/M8
Add/Delete tag by presenting (M6 only)	22 * N #	N=0(Delete tag); N=1(Add tag)	M6
AR-401RO16 Lift Relay Activated TM	23 * N N N * T T T #	NNN=site number, TTT= relay time: 000~600=1~600 sec.	M4/M8
Controller parameter setting	24 * D D D #	Please refer to function default value for details.	M4/M6/M8
Controller time clock setting	25 * Y Y M M D D H H m m s s #	YYMMDDHHmms: Year/ Month/ Day/ Hour/ Min./ Sec.	M4/M6/M8
Anti-pass-back (Enable user)	26 * S S S S * E E E E * N #	SSSS=Starting User Address; EEEE=Ending User Address; N=0: Enable; N=1: Disable; N=2: Reset	M4/M8
Lift control setting: single floor	27 * U U U U * F F #	UUUUU=User Address; FF=Floor (01~32 floor)	M4/M8
Double Door Control/ Force Open Alarm	28 * D D D #	Please refer to function default value for details.	M4/M6/M8
Delete all tags	29 * 2 9 * #		M4/M6/M8
Enable the security trigger signal (with AR-721RB)	34 * 1 2 8 # (321H/721H/725H/757H/888H) 34 * 0 6 4 # (723H/331H) 34 * 0 0 0 # (Disable)	Change the "Arming" (in CNS) to the security trigger signal, when controller is connected with AR-721RB.	M4/M6/M8