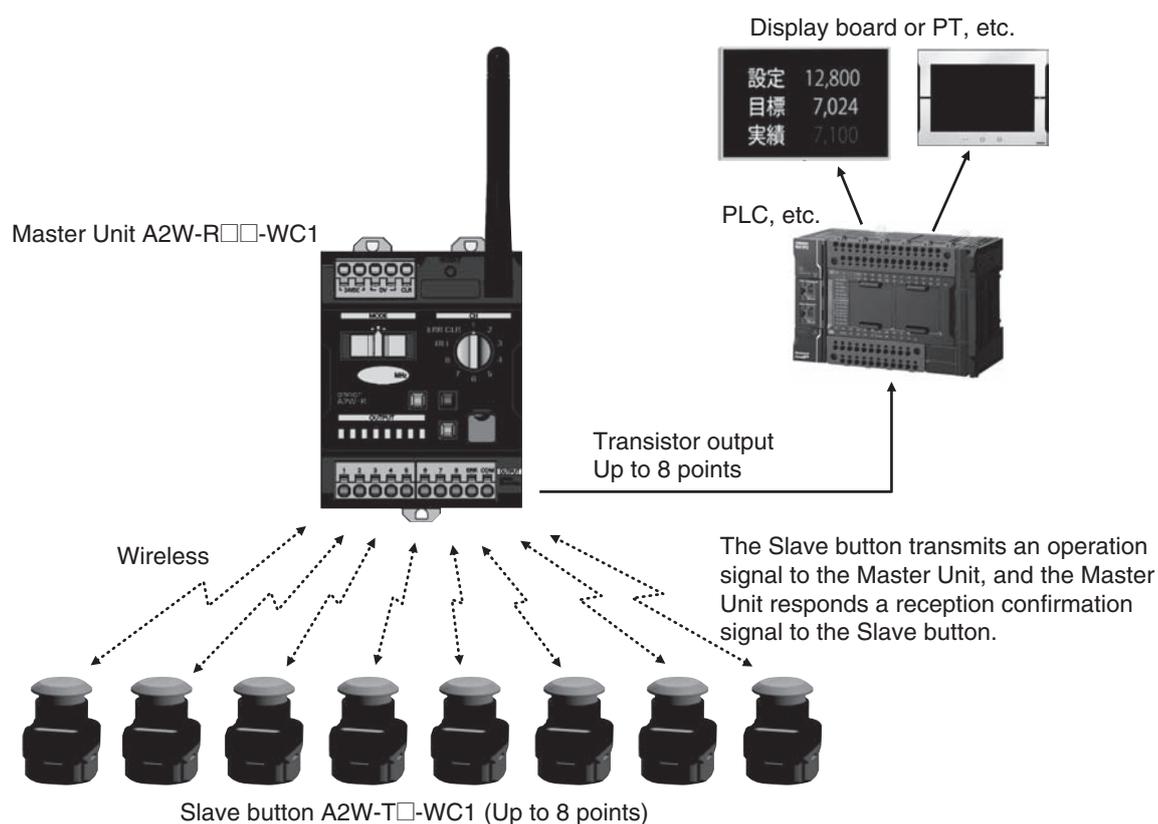# Wireless Pushbutton Switch
A2W

Wireless switch using sub-GHz band Combines wireless reliability and ease-of-use in consideration of work environments

- Sub-GHz band for reduced interference and better signal propagation to difficult-to-reach areas
- Visualization of impedance to wireless transmission because of damage or noise, using Master Unit error output
- Visualization of Slave button reception status using reception confirmation LEDs
- Transmission distance independent of the transmission position of the Slave button
- Visualization of configuration using PC tools ✽ that avoid erroneous ID registration
- Visualization of signal quality in display and usage environments using PC tools ✽
- 8 outputs with focus on decentralized control
- Self-power generation eliminates battery replacement and enhances safety and energy saving in the Slave button
- Slave button's shape allows easy use of buttons

✽ This tool is available for download from your OMRON website.

For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

System Components

Display board or PT, etc.

設定 12,800
目標 7,024
実績 7,100

PLC, etc.

Master Unit A2W-R□□-WC1

Transistor output
Up to 8 points

Wireless

The Slave button transmits an operation signal to the Master Unit, and the Master Unit responds a reception confirmation signal to the Slave button.

Slave button A2W-T□-WC1 (Up to 8 points)

A2W

Model Number Structure

Model Number Structure
Slave button

A 2 W- ☐☐ - WC☐ ☐☐☐☐☐
     1 2   3   4 5 6 7

1.

Slave button
T

2.

Frequency (MHz)	
A	929.2

3.

Protocol	
1	OMRON's protocol

4.

Area	
JP	Japan

5.

Button type	
1	Mushroom
2	Full guard

6.

Button color	
R	Red
G	Green
Y	Yellow
A	Blue
W	White
B	Black

7.

Flange color	
R	Red
Y	Yellow
B	Black

Note: This product is a wireless device that conforms to the radio regulations of Japan.
It cannot be used outside of Japan.
Besides Japan, we also provide models that conform to the radio regulations of the USA, Canada, Mexico, Europe (EU), and Brazil.
For product details, please contact us separately.

Master Unit

A 2 W- ☐☐☐ - WC☐ ☐☐
     1 2 3   4   5

1.

Master Unit
R

2.

Frequency (MHz)	
A	929.2

3.

Output Configuration	
N	Sinking Outputs
P	Sourcing Outputs

4.

Protocol	
1	OMRON's protocol

5.

Area	
JP	Japan

Note: This product is a wireless device that conforms to the radio regulations of Japan.
It cannot be used outside of Japan.
Besides Japan, we also provide models that conform to the radio regulations of the USA, Canada, Mexico, Europe (EU), and Brazil.
For product details, please contact us separately.

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Ordering Information

Unit

Type	Button type	Frequency (MHz)	Area	Button color	Flange color	Model
Slave button	Mushroom	929.2	Japan	Red	Black	**A2W-TA-WC1 JP1RB**
			Japan	Green	Black	**A2W-TA-WC1 JP1GB**
			Japan	Yellow	Black	**A2W-TA-WC1 JP1YB**
			Japan	Blue	Black	**A2W-TA-WC1 JP1AB**
			Japan	White	Black	**A2W-TA-WC1 JP1WB**
			Japan	Black	Red	**A2W-TA-WC1 JP1BR**
			Japan	Black	Yellow	**A2W-TA-WC1 JP1BY**
			Japan	Black	Black	**A2W-TA-WC1 JP1BB**
	Full guard		Japan	Red	Black	**A2W-TA-WC1 JP2RB**
			Japan	Green	Black	**A2W-TA-WC1 JP2GB**
			Japan	Yellow	Black	**A2W-TA-WC1 JP2YB**
			Japan	Blue	Black	**A2W-TA-WC1 JP2AB**
			Japan	White	Black	**A2W-TA-WC1 JP2WB**
			Japan	Black	Red	**A2W-TA-WC1 JP2BR**
			Japan	Black	Yellow	**A2W-TA-WC1 JP2BY**
			Japan	Black	Black	**A2W-TA-WC1 JP2BB**

Master Unit

Type	Frequency (MHz)	Area	Output configuration	Model
Master Unit	929.2	Japan	Sinking Outputs	**A2W-RAN-WC1 JP**
			Sourcing Outputs	**A2W-RAP-WC1 JP**

Note: This product is a wireless device that conforms to the radio regulations of Japan.
It cannot be used outside of Japan.
Besides Japan, we also provide models that conform to the radio regulations of the USA, Canada, Mexico, Europe (EU), and Brazil.
For product details, please contact us separately.

Options (sold separately)

Type	Model	Remarks
High-sensitivity magnetic-base antenna	**A2W-AT2.5-WC1**	Frequencies: all frequencies supported, cable length 2.5 m Degree of protection: IP65
Slave button holder	**A2W-H-WC1**	One A2W-H-WC1 is included at purchase of a slave unit.
Slave button strap	**A2W-S-WC1**	

A2W

Ratings

Wireless Specifications

Item	Slave button model	A2W-TA-WC1 JP□□□
	Master Unit model	A2W-RA□-WC1 JP
Set frequency		929.2 MHz
Frequency channels		1 channel
Transmission power		1 mW max.
Wireless service area communications speed		100 kbit/s
Communications method		Simplex communications
Number of wireless pushbuttons connected		8 max.
Communications distance (line of sight)		Approx. 100 m outdoors (with the included pencil antenna)
Transmission time		Approx. 3 ms (from Slave button transmission to Slave button reception)
Repeater function		Not supported.

Applicable Standards

Area	Wireless standards	Safety standards	EMC standards
Japan	Conforms to ARIB STD-T108	Conforms to IEC 623680-1 Conforms to EN 62368-1	Conforms to EN 301 489-1 Conforms to EN 301 489-3

Conformance to EN Standards

Use a DC power line less than 3 m to conform to EN standards.

If a power line of 3 m or longer is required, extend the length at the Switching Power Supply's primary side (i.e., the AC power line).

Slave button

Ratings

Item	Specifications
Operating force	25 N max.
Number of operations	1,000,000 operations
Vibration resistance	Frequency: 10 to 55 Hz, half amplitude: 0.75 mm Sweep 5 min, 2 h
Shock resistance	1,000 m/s^2 Direction: 3-axis, 6 directions
Ambient operating temperature range	-10 to +55°C (no condensation or freezing)
Ambient operating humidity range	20% to 90%, (no condensation)
Atmosphere	No corrosive gas
Storage temperature range	-40 to +70°C (no condensation or freezing)
Storage humidity range	20% to 90%, (no condensation)
Degree of protection	IP65
Altitude	2,000 m max.
Weight	100 g max.

Reception Confirmation LED

Item	Details
Green	Reception success (received field strength "Strong")
Yellow	Reception success (received field strength "Weak")
Red	Reception failure
Not lit	Slave button fault (no signal transmission from Slave button)

Operating Characteristics

Item	Code	Unit	Initial standard value
Operating force	OF	N	25 N max.
Total travel	TT	mm	6 mm

OMRON

Master Unit
Ratings

Item		Specifications
Master Unit power supply	**Rated voltage**	24 VDC
	Allowable voltage range	21.6 to 26.4 VDC
	Power consumption	2.4 W max.
	Input current	0.1 A max.
Output rated	**Output points**	Output 8 points One other point for error output
	Output circuit shared voltage	30 VDC max.
	Maximum load current	50 mA per point
	Leakage current	0.1 mA max.
	Residual voltage	2.0 V max.
	Output logic	One-shot (500 ms)
	Response time	30 ms or less (from Slave button transmission to Master Unit signal output)
	Number of connected Slave buttons	8 max.
Error clear terminal	**Residual voltage at short**	1.5 V or less, ON
	Leakage current	0.1 mA or less, OFF (current at short: approx. 7 mA)

Insulation resistance		20 MΩ max. (100 VDC)
		    Between the case and power supply terminals and all outputs terminals
		    Between all power supply terminals and all outputs terminals

Dielectric strength		1,000 VAC, 1 min.
		    Between the case and power supply terminals and all outputs terminals
		    Between all power supply terminals and all outputs terminals

Vibration resistance		Frequency: 10 to 55 Hz, half amplitude: 0.42mm 3-Directional, 120 minutes each (1 sweep, 1 min. ×120 sweeps)
Shock resistance		150 m/s^2 Direction of shock: 3-axis, 6 directions Shock frequency: 3 × each direction, total 18
Ambient operating temperature range		-10 to +55°C (no condensation or freezing)
Ambient operating humidity range		20% to 90% (no condensation)
Surrounding atmospheric conditions		No corrosive gas
Ambient storage temperature range		-40 to +70°C (no condensation or freezing)
Ambient operating humidity		20% to 90% (no condensation)
Degree of protection		IP20
Altitude		2,000 m max.
Memory protection		Non-volatile memory (Number of write operations: 1,000,000)
Weight		150 g (not including antenna) 160 g (including antenna)
Mounting		DIN rail mounting Screw mounting

Parts Names and Functions

Slave button

- Button
- Flange
- Reception Confirmation LED
- Strap hole
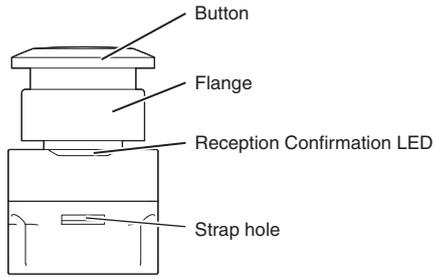
Master Unit

Number	Terminal name	Name	Functions
1	24 VDC	Power supply terminals	Supply 24 VDC.
2	24 VDC		
3	0 V 1		
4	0 V 2		
5	CLR	Error clear terminal	Connect the error clear terminal to 0V (GND).
6	OUT 1	Output terminals	Connects the output signal line. There are two output types: sinking and sourcing. • A2W-R☐N-WC1 ☐☐: Sinking Outputs • A2W-R☐P-WC1 ☐☐: Sourcing Outputs
7	OUT 2		
8	OUT 3		
9	OUT 4		
10	OUT 5		
11	OUT 6		
12	OUT 7		
13	OUT 8		
14	ERR	Error output terminal	Connects the error signal line. There are two output types: sinking and sourcing. • A2W-R☐N-WC1 ☐☐: Sinking Outputs • A2W-R☐P-WC1 ☐☐: Sourcing Outputs
15	COM	Common terminal for outputs	Used as common for output and error output.
16	-	Antenna terminal	Connect the included pencil antenna. (Optional antenna A2W-AT2.5-WC1 can also be connected.) It transmits and receives data by wireless communications via the antenna.
17	-	Reset switch	• Delete the Slave button registration information corresponding to the output settings switch. • By pressing the output settings switch in the "ERR CLR" state when an error output is generated, error output will be reset. • When the power is turned ON in the pressed state, it is reset to the factory setting.

Number	Terminal name	Name	Functions
18	-	Output settings switch	Used to register or delete the ID of the Slave button to or from the output of the Master Unit. Also used to reset the error output without using the error clear terminal.
19	-	Mode settings switch	Set the operation mode of the Master Unit to ID mode, TEST mode, and RUN mode.
20	-	Power LED (PWR)	Lit green when the power is ON.
21	-	Error LED (ERR)	Lit red when there is a possibility that abnormality occurs in the master unit and it will not output correctly according to the Slave button operation.

22	-	Received field strength LED (RCV)	• RUN mode or TEST mode
			It lights according to the received electric field strength of the received data.
			  Lit green: Received field strength is "Strong"
			  Lit red: Received field strength is "Weak"
			• ID mode
			Lit green when registration or deletion is success.
			Flashing green when registration or deletion is failure.
			• When error output occurs
			Lit green when the Master Unit setting data error is detected.
			Lit yellow when there is a possibility that the Master Unit will not output properly according to the Slave button operation.

23	-	Output LED (OUTPUT 1 to 8)	• RUN mode When outputting to the output terminal, the corresponding output LED lit yellow. • TEST mode It does not output to the output terminal, and the corresponding output LED lit yellow. • ID mode The output LED corresponding to the output setting switch lit yellow.

Display Section

LED name	Color	Enabled mode	Status	Meaning
PWR	Green	Always enabled	Lit	During Power Supply
			Not lit	No power supplied
RCV	Green or yellow	RUN/TEST	Lit/Not lit	Received field strength monitor: Lit green: Received field strength is "Strong" (lit up for 500 msec) Lit yellow: Received field strength is "Weak" (lit up for 500 msec) Not lit: No received
		ID	Lit/Not lit/ Flashing	ID registration: Lit green: ID registration successful (lit up for 3 s) Not lit: Data for ID registration not received Flashing green: ID registration failed (flashes for 3 s after every 250 ms) Delete ID: Lit green: ID deletion successful (lit up for 3 s) Not lit: Data for ID deletion not received Flashing green: ID deletion failed (flashes for 3 s after every 250 ms)
		Enabled only when ERR LED is lit	Lit/Not lit	Lit green: Error in Master Unit setting data Lit yellow: Error in the most important function (wireless received, registration/verification, or output) All not lit: Error in CPU initialization process during startup
OUTPUT 1 to 8	Yellow	RUN/TEST	Lit	Data is received from the ID assigned to the corresponding output
			Not lit	Data is not received from the ID assigned to the corresponding output
		ID	Lit	Reads corresponding output settings switch values 1 to 8
			All Lit	Reads output settings switch value DEL
			All not lit	Reads output settings switch value ERR_CLR
ERR	Red	Always enabled	Lit	Error in CPU initialization processing at startup, or in Master Unit setting data, or in the most important function (wireless received, registration/verification, or output)
			Not lit	No Master Unit error

Note: For received field strength LED (RCV) green flashing, this also flashes even when attempting to select or reset a non-registered output settings No. and delete or reset.

Settings Switch

Mode Settings Switch

Set the operation mode of the Master Unit.
Factory setting: ID

Operation mode	Function
RUN	Communications mode: carry out normal communications
TEST	Test mode: Perform installation test such as reception intensity measurement ✻
ID	ID mode: Register or delete Slave buttons

✻ There is no output from the output terminal.

Output Settings Switch

Register or delete the Slave button ID ✻ for each output number of the Master Unit.
Factory setting: 1

No.	Enabled mode	Other settings requirements	Function
1 to 8	ID	Continuous data reception within a fixed period from the Slave button to be registered	Register the ID of the target Slave button to be registered in the specified output number
		Press the Reset switch (ON)	Delete IDs of all Slave buttons registered in the specified output number
DEL		Continuous data reception within a fixed period from the Slave button for which the registration is to be deleted	Delete the ID of the Slave button to be deleted from the registration list
		Press the Reset switch (ON)	Delete all IDs from the registration list
ERR CLR	ERR LED lit red + RCV LED lit yellow	Press the Reset switch (ON)	Execute the software reset of the Master Unit

✻ This is the identification number of the Slave button for wireless communications.

Reset Switch

Execute resets of Master Unit.
Factory Setting: Not pressed (OFF)

Setting Procedures

Slave buttons Registration Setting

- Set the output for the Slave button ID.
- When the mode settings switch has been set to "ID", the Slave button ID that has received the data during the same operation of the Slave button three or more times within three seconds, and the contents set in the output settings switch are linked.
- If you make "Wireless Push Buttons Registration setting" while another system is operating in the vicinity, erroneous settings may be made. Therefore, make the "Wireless Push Buttons Registration setting" in an environment in which other systems are not operating.
- In the ID deletion procedure, if the received field strength LED (RCV) flashes, then a non-registered port ID may be selected.
- At Slave button registration (ID registration/deletion procedures), confirm that the output LCD is lighting correctly for the output setting No. to select.

Wireless push button registration/deletion procedure
✻ **Using the wireless push button**
1. Set the mode settings switch of the Master Unit to "ID".
2. Set the output settings switch of the Master Unit.
   1 to 8: The output destination is set as outputs 1 to 8.
   DEL: The information about the received ID is deleted from the registration list.
3. Press the wireless push button three or more times to make sure that the received field strength LED (RCV) is lit.
4. Set the mode settings switch of the Master Unit to "RUN" or "TEST".

Wireless push button deletion procedure
✻ **Using the RESET switch**
1. Set the mode settings switch of the Master Unit to "ID".
2. Set the output settings switch of the Master Unit.
   1 to 8: The ID information registered in outputs 1 to 8 is deleted.
   DEL: The information about all IDs is deleted from the registration list.
3. Press the Reset switch of the Master Unit until the received field strength LED (RCV) is lit.
4. Set the mode settings switch of the Master Unit to "RUN" or "TEST".

Resetting Error Output (RCV indicator lit yellow.)
Using the RESET switch
1. Set the output settings switch of the Master Unit to "ERR_CLR".
2. Press the Reset switch.

Using the error clear terminal
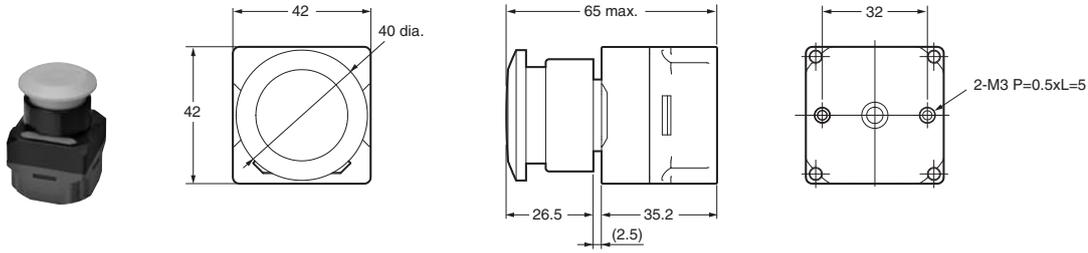1. Connect the error clear terminal to GND.
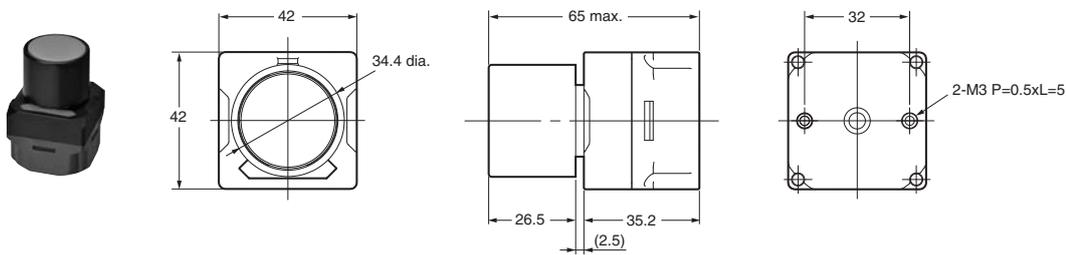
A2W

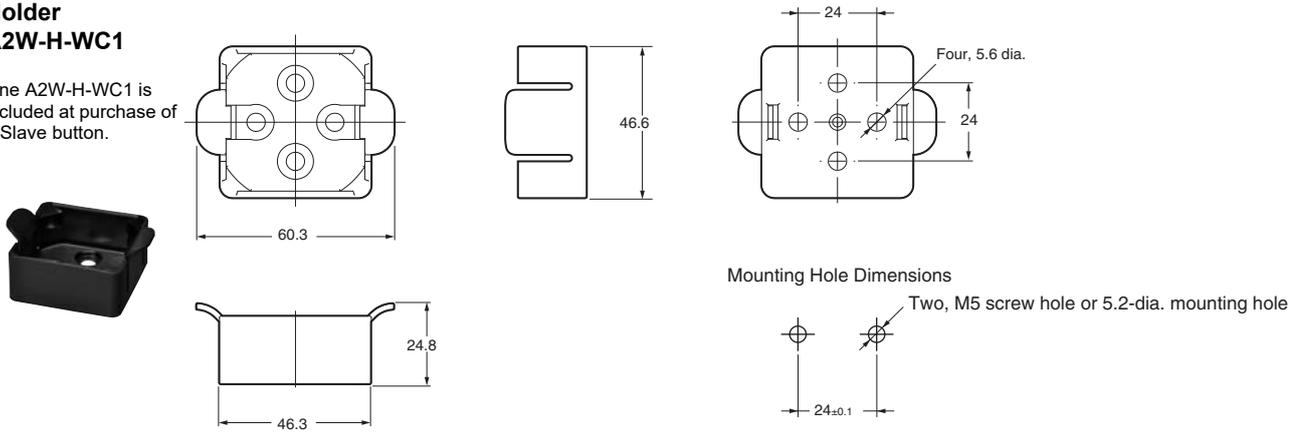## Dimensions

Unit

Slave button
A2W-□□-WC1-□□1□□

42
42
40 dia.
65 max.
26.5
35.2
(2.5)
32
2-M3 P=0.5xL=5

A2W-□□-WC1-□□2□□

42
42
34.4 dia.
65 max.
26.5
35.2
(2.5)
32
2-M3 P=0.5xL=5

Holder
A2W-H-WC1

One A2W-H-WC1 is
included at purchase of
a Slave button.

60.3
46.6
24.8
46.3
24
24
Four, 5.6 dia.

Mounting Hole Dimensions

Two, M5 screw hole or 5.2-dia. mounting hole

24±0.1

Strap
A2W-S-WC1

32
32
33.5
46.3
70.1
Four, 3.2 dia.

Slave button mounting screws:
Accessories (2 places)
Be sure to use the accessory screws.

1/4-20UNC (2 places)

Master Unit
A2W-□□□-WC□□□

50
46
34.5
34
(4.5)
94 ✱
90
(2)
70

✱ 108 mm at installation on the wall

(161.5)
(79.1)
(60.8)
(143.2)

High-sensitivity Magnetic Base Antenna
A2W-AT2.5-WC1

3 dia.
1.2 dia.
83±3
36
27 dia. ±2
2500 $^{+100}_{-0}$

A2W
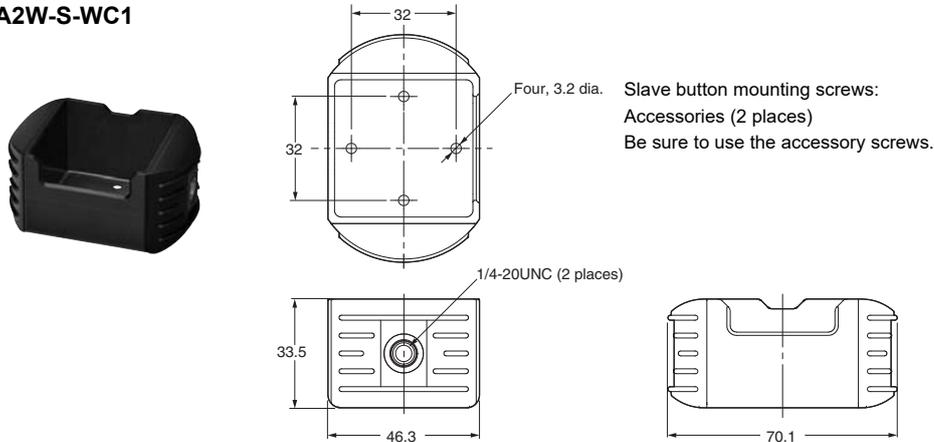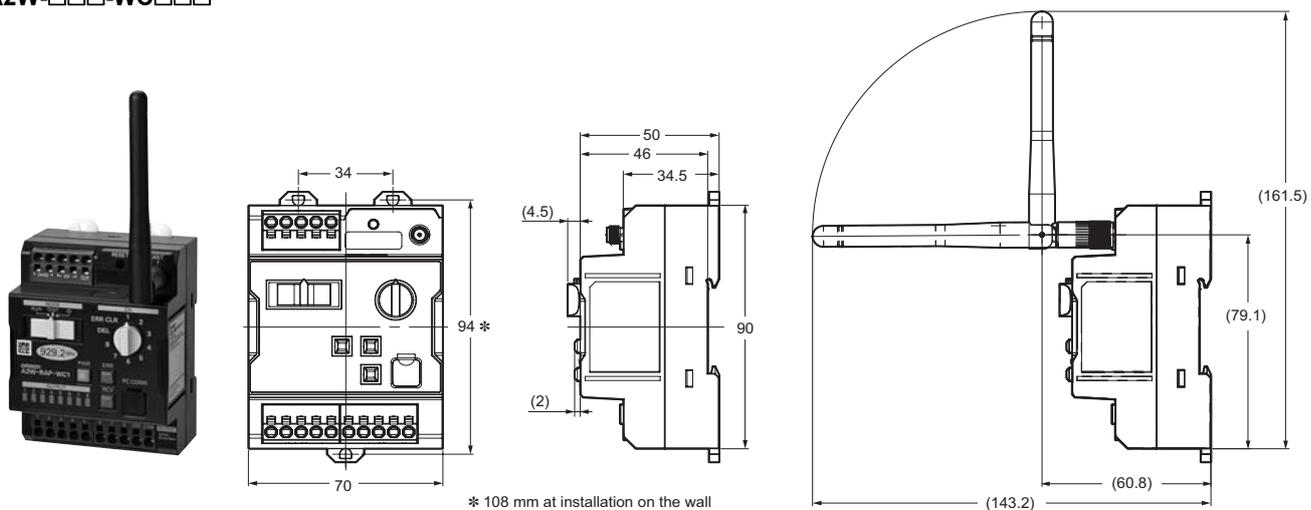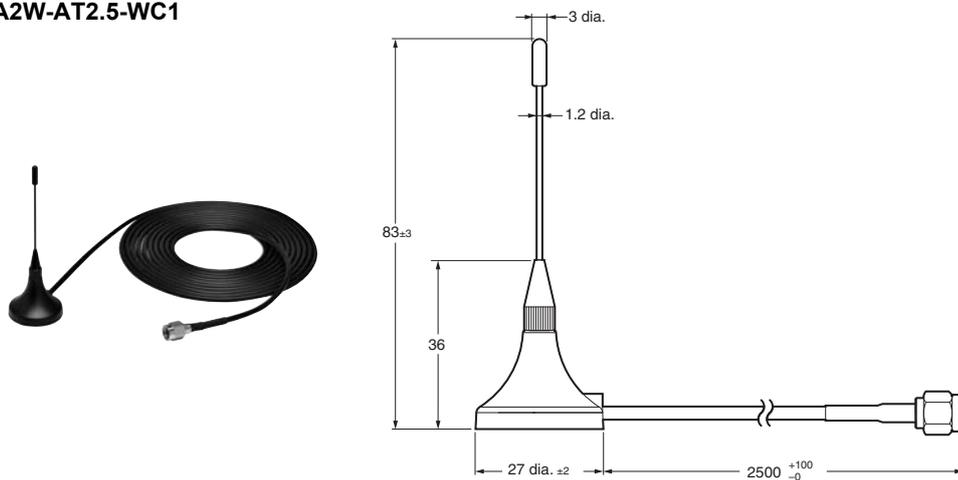
Connection

Internal Connection Diagram (Master Unit)
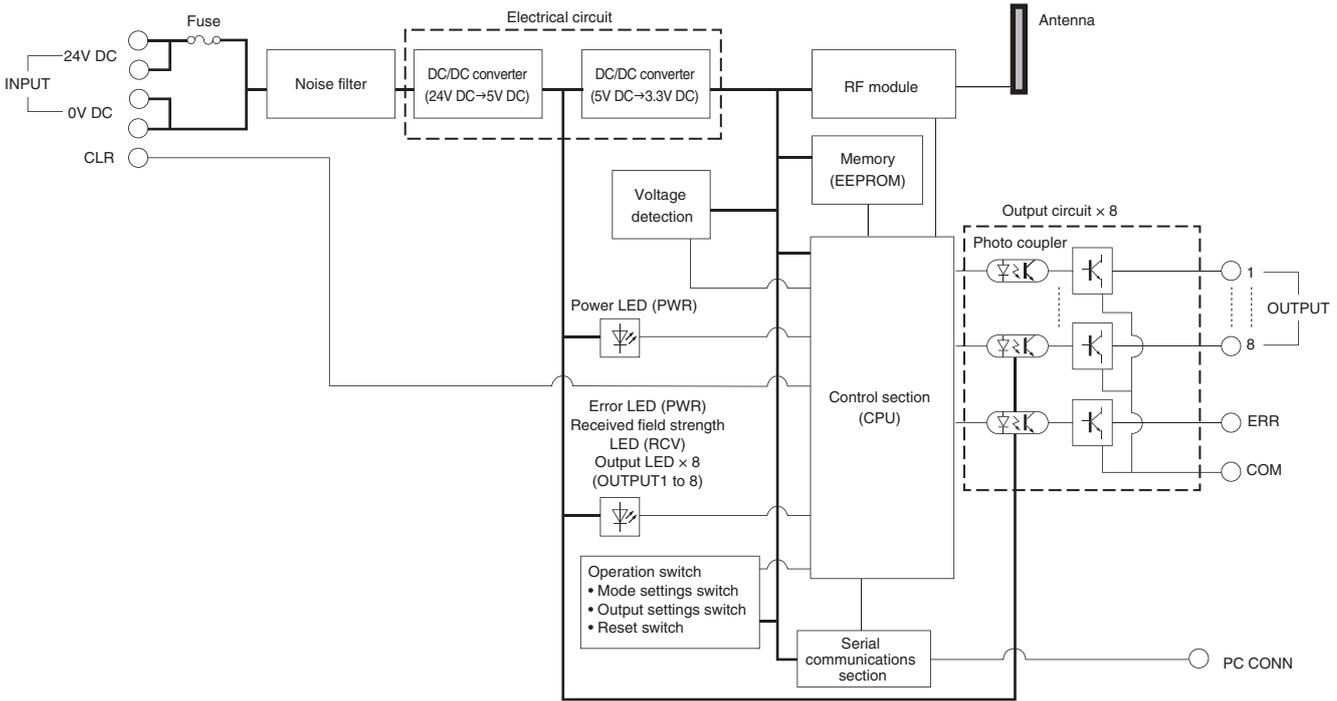
Output Specifications
Operation Timing Chart
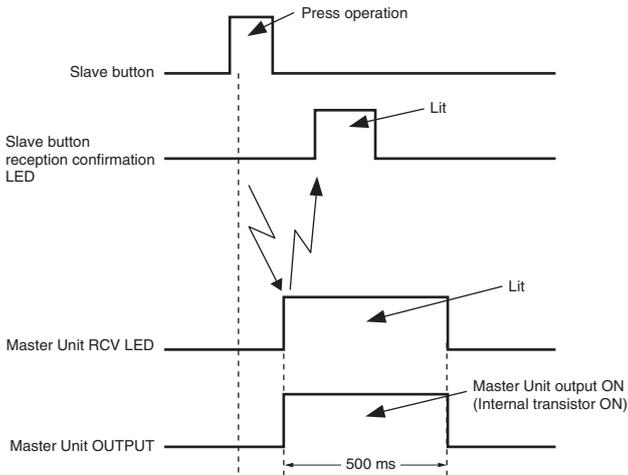
Note: If you press two or more Slave buttons simultaneously within 2 ms, operation of the Slave button after that may not be sent to the Master Unit.

Error Output Signal (Master Unit)
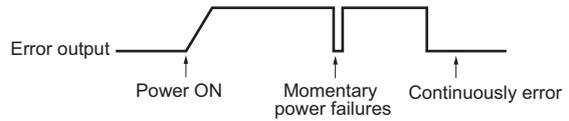
Status	Internal transistor
Power is OFF.	OFF
Normal operation	ON
Error, or momentary power failure	OFF

Output/Error Output Circuit Diagram (Master Unit)

Output/Error output circuits diagram (Sinking Outputs)
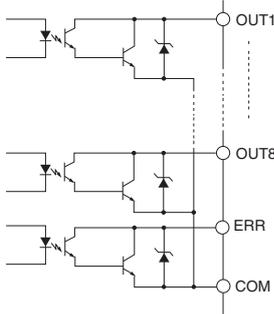
Output/Error output circuits diagram (Sourcing Outputs)

OMRON
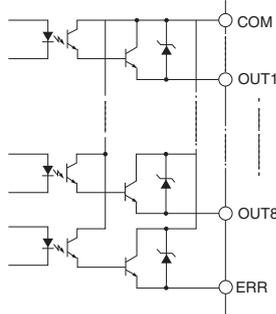
Recommended Ferrules and Crimp Tools
Coating peeling amount

Recommend Wire Type	Stripping length (Ferrules not used)
0.25 to 1.5 mm²/AWG 24 to AWG 16	8 mm
2 to 2.5 mm²/AWG 14	10 mm

Applicable wire		Ferrule conductor length (mm)	Stripping length (mm) (Ferrules not used)	Recommended ferrules		
(mm²)	(AWG)			Manufactured by Phoenix Contact	Manufactured by Wago	Manufactured by Weidmuller
0.25	24	8	10	AI 0, 25-8	H0.25/12	216-301
		10	12	AI 0, 25-10	---	---
0.34	22	8	10	AI 0, 34-8	H0.34/12	216-302
		10	12	AI 0, 34-10	---	---
0.5	20	8	10	AI 0, 5-8	H0.5/14	216-201
		10	12	AI 0, 5-10	H0.5/16	216-241
0.75	18	8	10	AI 0, 75-8	H0.75/14	216-202
		10	12	AI 0, 75-10	H0.75/16	216-242
1/1.25	18/17	8	10	AI 1-8	H1.0/14	216-203
		10	12	AI 1-10	H1.0/16	216-243
1.25/1.5	17/16	8	10	AI 1, 5-8	H1.5/14	216-204
		10	12	AI 1, 5-10	H1.5/16	216-244
2.5	14	10	12	AI 2,5-10	H2.5/16DS	
Recommended Crimp Tools				CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocrim p4

Note: 1. Make sure that the outer diameter of the wire coating is smaller than the inner diameter of the insulation sleeve of the recommended ferrule.
2. Make sure that the ferrule processing dimensions conform to the following figures.
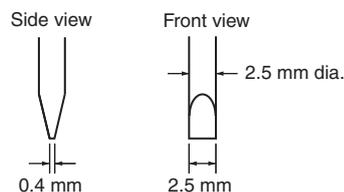

8 to 10 mm
2.6 mm max.
2.8 mm max.
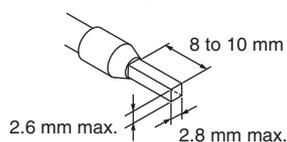
Recommended Flat-Blade Screwdrivers
Use a flat-blade screwdriver to connect and remove wires.
Use one of the following flat-blade screwdrivers.
The following table shows manufacturers and models as of 2015/Dec.

Side view   Front view
2.5 mm dia.
0.4 mm   2.5 mm

Model	Manufacture
ESD 0,40 × 2,5	Wera
SZS 0,4 × 2,5 SZF 0-0,4 × 2,5 ✻	Phoenix Contact
0.4 × 2.5 × 75 302	Wiha
AEF.2,5 × 75	Facom
210-719	Wago
SDI 0,4 × 2,5 × 75	Weidmuller

✻ The SZF 0-0,4 × 2,5 (manufactured by Phoenix Contact) can be procured through an OMRON exclusive purchase form (XW4Z-00B).

MEMO

OMRON

Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

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Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Suitability of Use.

Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.

Change in Specifications.

Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions.

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