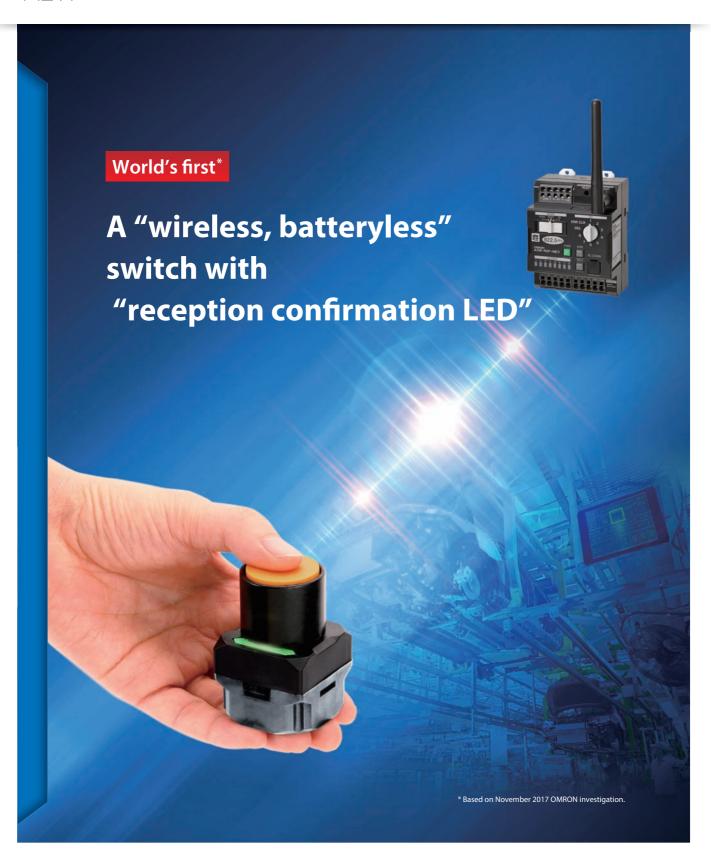


Wireless Pushbutton Switches A2W



On-site Innovation Created by a Switch that Connects **People and Machines** "Wirelessly"

With increasing high-mix low-volume production and more frequent changeovers of products, manufacturing sites increasingly require more versatile and flexible production systems.

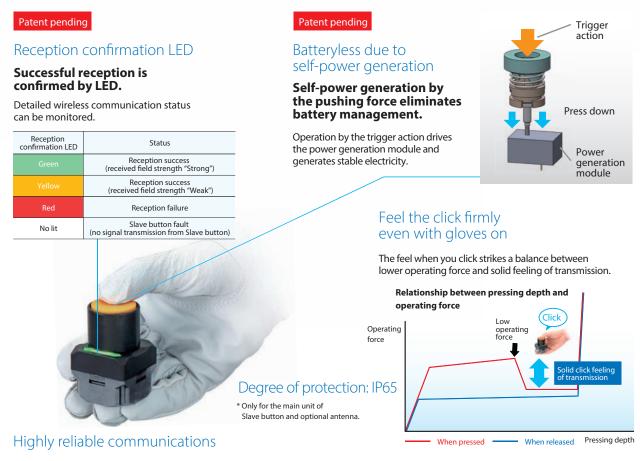
OMRON wireless switches offer:

- · Production lines without restrictions on the layout
- · Easy addition to existing facilities
- Installation on the moving parts

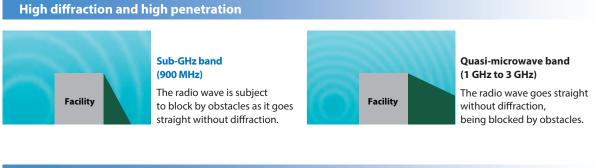


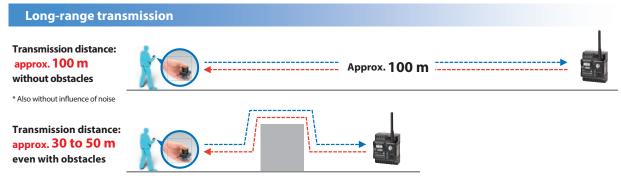


A Wireless Switch with Reliability and Usability



Sub-GHz-band that is less susceptible to obstacles

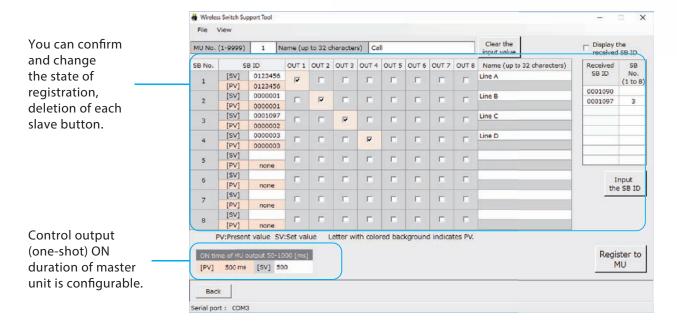




Easy Setup and Evaluate with "Wireless Switch Support Tool", Available for Free

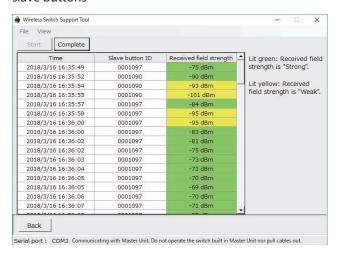
Wireless Switch Support Tool enables easy settings of the master unit and confirmation of radio field intensity transmitted from the slave buttons.

Visualization of master unit settings

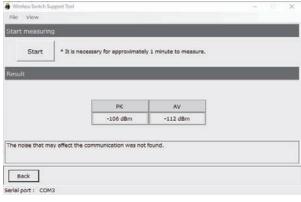


Quantitative evaluation of radio wave intensity

Display the radio wave intensity received from slave buttons

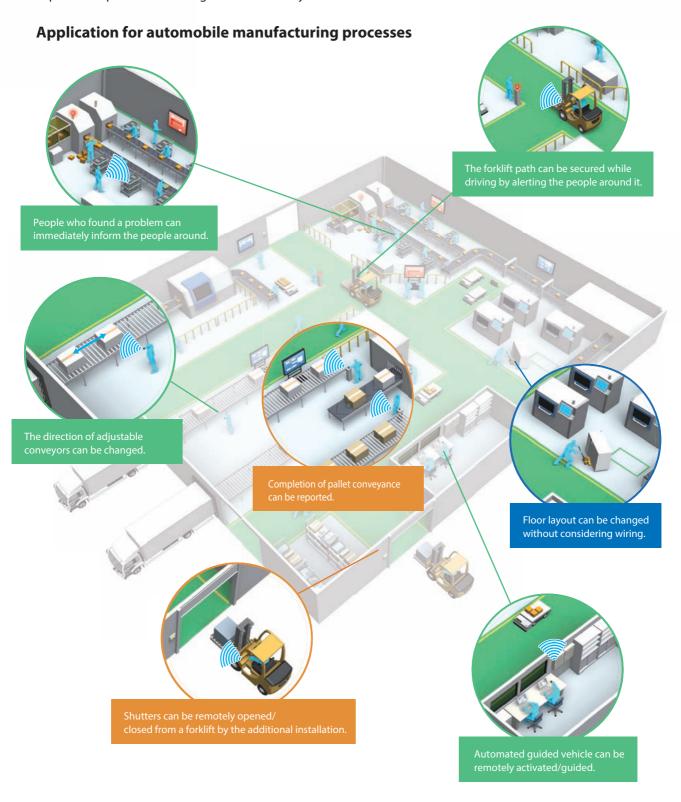


Confirmation of noise intensity surrounding the master unit



Wireless Communications Enables a Wide Range of Applications.

Wireless communications reduces the troubles caused by disconnection, and time and expenses required for rearrangement of floor layout.



Benefit of wireless 1

Man-hours reduction

Easy to change equipment layout without re-wiring effort

Benefit of wireless 2

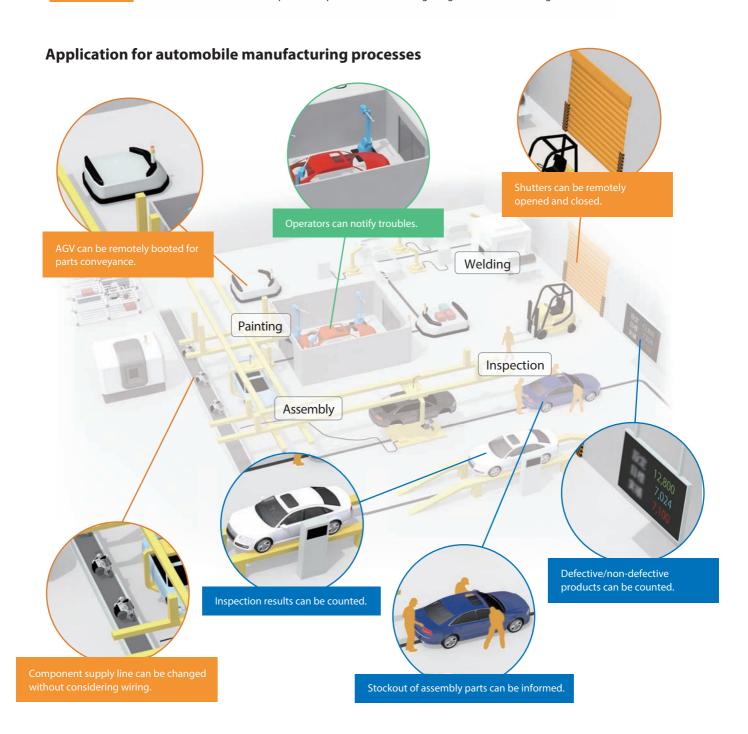
Work efficiency improvement

Unfixed slave buttons eliminates location constraints in the work space

Benefit of wireless 3

Conveying work efficiency improvement

Unfixed slave buttons makes it possible to press buttons without getting in and out of a moving truck



Main Specifications

[Slave button]

Button type	Mushroom, Full g	juard				
Button color	Green	Yellow	White	Blue	Black	Red
Flange color	Yellow	Black	Red			
Degree of protection	IP65					

[Master Unit]

Rated voltage	24 VDC
Allowable voltage range	21.6 to 26.4 VDC
Output circuit shared voltage	30 VDC max.
Maximum load current	50 mA per point
Output logic	One-shot (500 ms)
Number of connected Slave buttons	8 max.

Accessories	Extension antenna (cable length 2.5 m), Slave button strap



Our shared Value Design for Panel (herein after referred to as Value Design) concept for the specifications of products used in control panels will create new value to our customer's control panels.

Combining multiple products that share the Value Design concept will further increase the value provided to control panels.

*Only for Main Units.

Wireless Pushbutton Switch

A2W

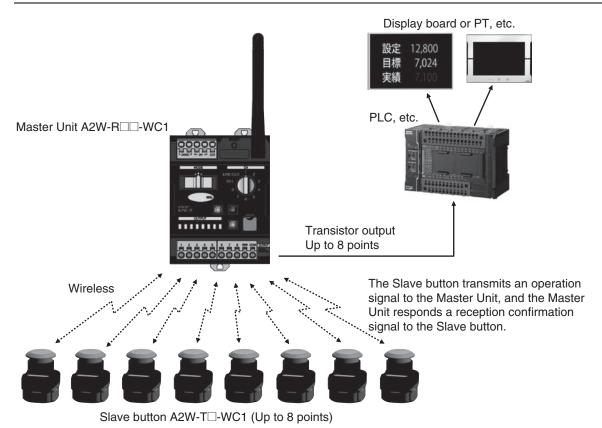
Wireless switch using sub-GHz band Combines wireless reliability and ease-of-use in consideration of work environments

- 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



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

System Components



0

Model Number Structure

Model Number Structure Slave button

1.

Slave button
Т

2.

Frequency (MHz)	
С	922.5

3.

Protocol		
1	OMRON's protocol	

4.

	Area
US	United States or Canada

5.

Button type		
1	Mushroom	
2	Full guard	

6.

Button color		
R	Red	
G	Green	
Υ	Yellow	
Α	Blue	
W	White	
В	Black	

7.

	Flange color
R	Red
Υ	Yellow
В	Black

Note: This product is a wireless device that conforms to the radio regulations of United States or Canada. It cannot be used outside of United States or Canada. For product details, please contact us separately.

Master Unit

1.

Master Unit	
R	

2.

Frequency (MHz)		
С	922.5	

3.

Output Configuration		
N	Sinking Outputs	
Р	Sourcing Outputs	

4.

Protocol		
1	OMRON's protocol	

5.

Area		
US	United States or Canada	

Note: This product is a wireless device that conforms to the radio regulations of United States or Canada. It cannot be used outside of United States or Canada. For product details, please contact us separately.

Ordering Information

Slave button

Туре	Button type	Frequency (MHz)	Area	Button color	Flange color	Model
			United States or Canada	Red	Black	A2W-TC-WC1 US1RB
			United States or Canada	Green	Black	A2W-TC-WC1 US1GB
			United States or Canada	Yellow	Black	A2W-TC-WC1 US1YB
	Marshara		United States or Canada	Blue	Black	A2W-TC-WC1 US1AB
	Mushroom		United States or Canada	White	Black	A2W-TC-WC1 US1WB
			United States or Canada	Black	Red	A2W-TC-WC1 US1BR
		922.5	United States or Canada	Black	Yellow	A2W-TC-WC1 US1BY
Slave button			United States or Canada	Black	Black	A2W-TC-WC1 US1BB
Slave bullon			United States or Canada	Red	Black	A2W-TC-WC1 US2RB
			United States or Canada	Green	Black	A2W-TC-WC1 US2GB
			United States or Canada	Yellow	Black	A2W-TC-WC1 US2YB
	Full accord		United States or Canada	Blue	Black	A2W-TC-WC1 US2AB
Full guar	Full guard		United States or Canada	White	Black	A2W-TC-WC1 US2WB
			United States or Canada	Black	Red	A2W-TC-WC1 US2BR
			United States or Canada	Black	Yellow	A2W-TC-WC1 US2BY
			United States or Canada	Black	Black	A2W-TC-WC1 US2BB

Master Unit

Type	Frequency (MHz)	Area	Output configuration	Model
Master Unit 922.5	022 5	United States or Canada	Sinking Outputs	A2W-RCN-WC1 US
	922.5	United States of Canada	Sourcing Outputs	A2W-RCP-WC1 US

Note: This product is a wireless device that conforms to the radio regulations of United States or Canada. It cannot be used outside of United States or Canada. For product details, please contact us separately.

Options (sold separately)

Туре	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-TC-WC1		
	Master Unit model	A2W-RC□-WC1 □□		
Set frequency		922.5 MHz		
Frequency channels		1 channel		
Transmission power		50 mV/m max.		
Wireless service area speed	a communications	100 kbit/s		
Communications me	thod	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
United States or Canada	Approved by 47 CFR 15.205 Approved by 47 CFR 15.209 Approved by 47 CFR 15.249 Approved by RSS-210	Approved by cULus 62368-1 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

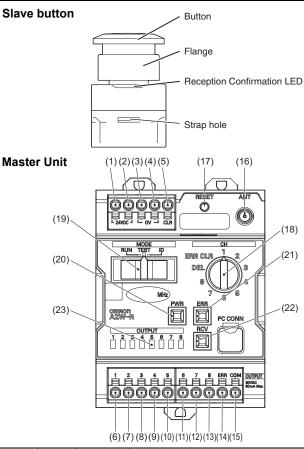
Item	Code	Unit	Initial standard value
Operating force	OF	N	25 N max.
Total travel	TT	mm	6 mm

Master Unit

Ratings

Item		Specifications		
	Rated voltage	24 VDC		
Master Unit power supply	Allowable voltage range	21.6 to 26.4 VDC		
	Power consumption	2.4 W max.		
	Input current	0.1 A max.		
	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		
Output rated	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	Residual voltage at short	1.5 V or less, ON		
terminal	Leakage current	0.1 mA or less, OFF (current at short: approx. 7 mA)		
Insulation resis	stance	20 M Ω max. (100 VDC) Between the case and power supply terminals and all outputs terminals Between all power supply terminals and all outputs terminals		
Dielectric stren	gth	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 resist	ance	Frequency: 10 to 55 Hz, half amplitude: 0.42mm 3-Directional, 120 minutes each (1 sweep, 1 min. ×120 sweeps)		
Shock resistance	ce	150 m/s ² Direction of shock: 3-axis, 6 directions Shock frequency: 3 × each direction, total 18		
Ambient operat	ting temperature range	-10 to +55°C (no condensation or freezing)		
Ambient operat	ting 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



Number	Terminal name	Name	Functions		
(1)	24 VDC				
(2)	24 VDC	Power	There are two terminals for 24 VDC, 0 V each.		
(3)	0 V 1	supply terminals	The power line can be connected to either.		
(4)	0 V 2				
(5)	CLR	Error clear terminal	Connect the error clear terminal to 0V (GND).		
(6)	OUT 1				
(7)	OUT 2				
(8)	OUT 3		Connects the output signal line.		
(9)	OUT 4	Output	There are two output types: sinking and		
(10)	O) OUT 5	terminals	sourcing. • A2W-R□N-WC1 □□: Sinking Outputs		
(11)	OUT 6		A2W-R□P-WC1 □□: Sourcing Outputs		
(12)	OUT 7				
(13)	OUT 8				
(14)	ERR	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)	СОМ	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 als 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	Green Always enabled		During Power Supply		
FVVK	Green	Always enabled	Not lit	No power supplied		
		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		
RCV	Green or	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)		
	yellow			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		
	RUN/TEST		Lit	Data is received from the ID assigned to the corresponding output		
		RUN/1ES1	Not lit	Data is not received from the ID assigned to the corresponding output		
OUTPUT 1 to 8	Yellow	ID	Lit	Reads corresponding output settings switch values 1 to 8		
1 10 0			All Lit	Reads output settings switch value DEL		
			All not lit	Reads output settings switch value ERR_CLR		
ERR	Red	ed 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 communication	
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 $\pmb{\ast}$ for each output number of the Master Unit.

Factory setting: 1

No.	Enabled mode	Other settings requirements	Function
1 to 8		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
	ID	Press the Reset switch (ON)	Delete IDs of all Slave buttons registered in the specified output number
DEL	טו	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".
- 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.
- 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".
- Set the output settings switch of the Master Unit.
 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.
- 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

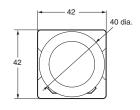
1. Connect the error clear terminal to GND.

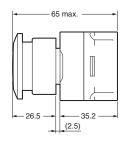
Dimensions (Unit: mm)

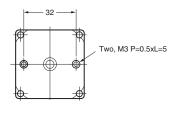
Unit

Slave button A2W-T□-WC1 □□1□□



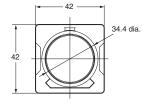


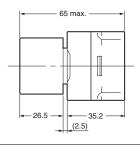


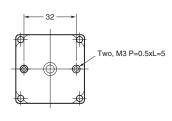


A2W-T□-**WC1** □□2□□



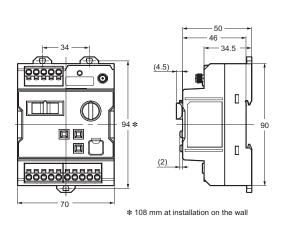


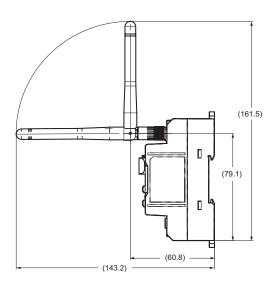




Master Unit A2W-R□□-WC1 □□





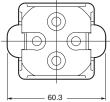


Options (sold separately)

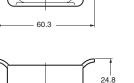
Holder A2W-H-WC1

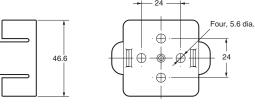
One A2W-H-WC1 is included at purchase of a Slave button.



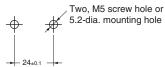


- 46.3







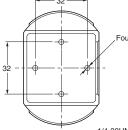


How the holder is used



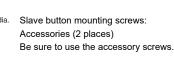


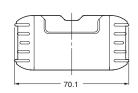




46.3







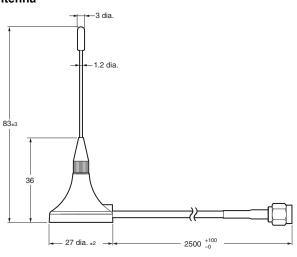
Example of using the strap



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

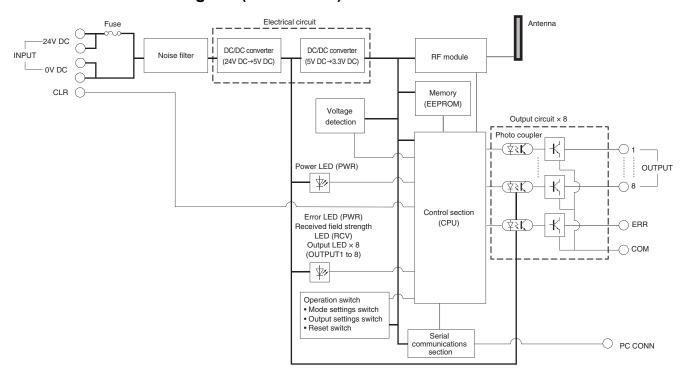
33.5



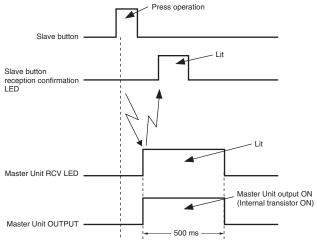


Connection

Internal Connection Diagram (Master Unit)

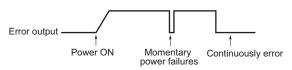


Output Specifications Operation Timing Chart



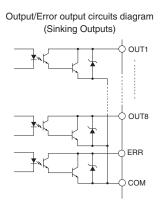
Note: If you press two or more Slave buttons simultaneously within 2 ms, operation of the Slave button after that may not be sent to the Master Unit.

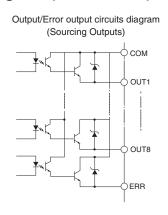
Error Output Signal (Master Unit)



Status	Internal transistor
Power is OFF.	OFF
Normal operation	ON
Error, or momentary power failure	OFF

Output/Error Output Circuit Diagram (Master Unit)



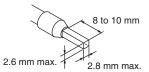


Recommended Ferrules and Crimp Tools Coating peeling amount

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

Applicable wire		Ferrule	Stripping	Recon	mmended ferrules	
(mm²)	(AWG)	conductor length (mm)	length (mm) (Ferrules not used)	Manufactu- red by Phoenix Contact	Manufactu- red by Wago	Manufa- ctured by Weidmul- ler
0.25	24	8	10	AI 0, 25-8	H0.25/12	216-301
0.23	24	10	12	AI 0, 25-10		
0.34	22	8	10	AI 0, 34-8	H0.34/12	216-302
0.34	22	10	12	AI 0, 34-10		
0.5	20	8	10	AI 0, 5-8	H0.5/14	216-201
0.5	20	10	12	AI 0, 5-10	H0.5/16	216-241
0.75	5 18	8	10	AI 0, 75-8	H0.75/14	216-202
0.73		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
1/1.23	10/17	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
1.23/1.3	17/10	10	12	AI 1, 5-10	H1.5/16	216-244
2.5	14	10	12	AI 2,5-10	H2.5/16DS	216-246
Recommended Crimp Tools			CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocrim p4	

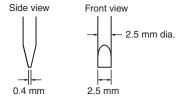
- **Note: 1.** Make sure that the outer diameter of the wire coating is smaller than the inner diameter of the insulation sleeve of the recommended ferrule.
 - 2. Make sure that the ferrule processing dimensions conform to the following figures.



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 2018/Dec.



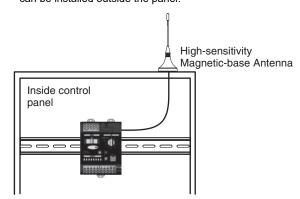
Model	Manufacture
ESD 0,40 × 2,5	Wera
SZS 0,4 × 2,5 SZF 0-0,4 × 2,5 *	Phoenix Contact
0.4 × 2.5 × 75 302	Wiha
AEF.2,5 × 75	Facom
210-719	Wago
SDIS 0.4 × 2.5 × 75	Weidmuller
9900 (-2.5 × 75)	Vessel

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

Using the Magnetic-base Antenna

High-sensitivity Magnetic-base Antenna (A2W-AT2.5-WC1) of the option (sold separately) should be used when the radio environment is not good.

Note: Do not install a product with a pencil-type antenna in a metal panel as it may result in degradation of radio performance. When installing the Master Unit inside a panel, use a high-sensitivity magnetic-base antenna, and make sure the antenna can be installed outside the panel.



MEMO

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