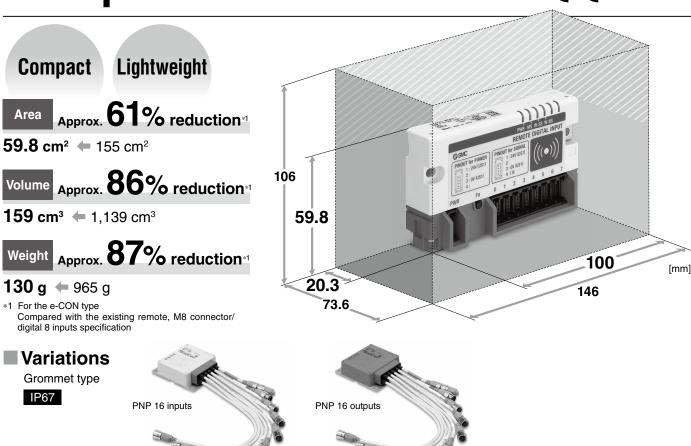
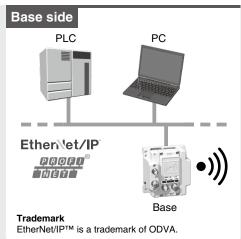
Wireless System

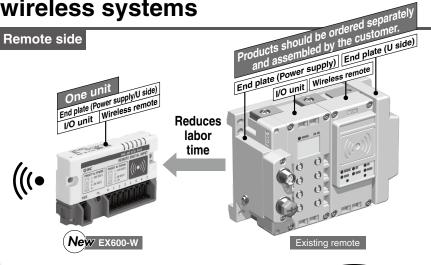
Compact Remote

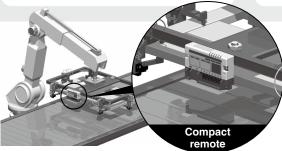




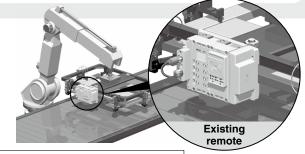
Applicable to existing wireless systems







EX600-W Series



Countries/Regions in which wireless is supported This product cannot be used in countries where wireless is not supported. Refer to the back cover for details on countries in which the product can be used.



EX600-W Series

Specifications

Wireless Communication Specifications

The court of the control of the cont			
Protocol	SMC original protocol		
Radio wave type	Frequency Hopping Spread Spectrum (FHSS)		
Frequency	2.4 GHz (2403 to 2481 MHz)		
Number of frequency channels	79 ch (Bandwidth: 1.0 MHz)		
Communication speed	250 kbps		
Communication distance	10 m (Depending on the operating environment)		
Radio Law certificate	Refer to the back cover		

Electrical Specifications/e-CON Type

ziooti opeomodione/o con 13po				
Power supply voltage for control and input (US1)			24 VDC ±10%	
Current Input unit		Input unit	100 mA or less	
consumption Output unit		Output unit	50 mA or less	
Power supply voltage for output (US2)		oltage for	24 VDC ±10%	
	Number of inputs		8 inputs (1 input/connector)	
	Input type		PNP (-COM)	
	Connector type		e-CON (4-pin)	
	Max. sensor supply current		0.3 A/connector 2 A/unit	
Ħ	Input resistance		1.5 kΩ	
벌	Input resistance Rated input current		5 mA or less	
	Determined value	OFF voltage/ OFF current	5 VDC or less/2 mA or less	
		ON voltage/ ON current	15 VDC or more/5 mA or more	
	Protection		Short-circuit protection	
	Number of outputs		8 outputs (1 output/connector)	
Ħ	Output type		PNP (-COM)	
Output	Connector type		e-CON (4-pin)	
ō	Max. load current		100 mA (per output)	
	Protection		Short-circuit protection	

Electrical Specifications/Grommet Type

Power supply voltage for control and input (US1)			24 VDC ±10%	
Current Input unit		Input unit	100 mA	
consumption Output unit		Output unit	50 mA or less	
Power supply voltage for output (US2)		oltage for	24 VDC ±10%	
	Number of in	puts	16 inputs (2 inputs/connector)	
	Input type		PNP (-COM)	
	Connector ty	ре	M12 5-pin socket (Female)	
	Max. sensor supply current		0.3 A/connector 2 A/unit	
Input	Input resistance		1.5 kΩ	
ᆵ	Rated input current		5 mA or less	
	Determined	OFF voltage/ OFF current	5 VDC or less/2 mA or less	
	value	ON voltage/ ON current	15 VDC or more/5 mA or more	
	Protection		Short-circuit protection	
	Number of outputs		16 outputs (2 outputs/connector)	
Ħ	Output type		PNP (-COM)	
Output	Connector ty	ре	M12 5-pin socket (Female)	
ō	Max. load cu	rrent	100 mA (per output)	
	Protection		Short-circuit protection	

General Specifications

Homora: opcomoducito				
Enclosure	e-CON type	IP20		
Eliciosure	Grommet type	IP67		
Cable tensile	e-CON type	10 N		
strength	Grommet type	100 N		
Ambient temperature (Operating temperature)		0 to +50°C		
Ambient temp (Storage temp		−10 to +60°C		
Ambient hum	idity	35 to 85% RH (No condensation)		
Withstand voltage		500 VAC for 1 minute between external terminals and metallic parts		
Insulation resistance		10 M Ω or more (500 VDC between external terminals and metallic parts)		
Vibration resistance		Compliant with EN61131-2 $5 \le f < 8.4 \text{ Hz } 3.5 \text{ mm}$ $8.4 \le f < 150 \text{ Hz } 9.8 \text{ m/s}^2$		
Impact resistance		Compliant with EN61131-2 147 m/s ² , 11 ms		
Marratina	e-CON type	M4 2 locations		
Mounting	Grommet type	M5 4 locations		
Waight	e-CON type	130 g (Body only)		
Weight	Grommet type	480 g (Body only)		



1

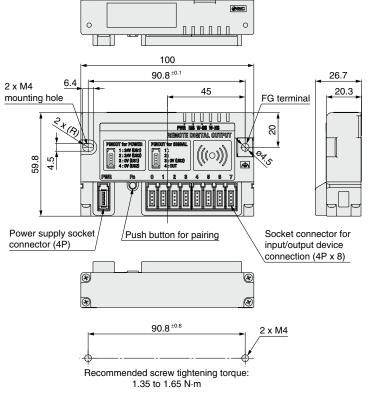
Dimensions

e-CON Type



Wireless remote/ Input

Wireless remote/ Output



Recommended mounting thread hole dimension

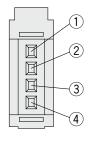
Applicable Connectors for Connection

pp					
Part no.	AWG No.	Conductor area [mm SQ]	Finished outside diameter [mm]	Cover color	
ZS-28-C-1	24 to 26	0.14 to 0.2	ø1.0 to ø1.2	Yellow	
ZS-28-C-2	24 10 20	0.14 10 0.2	ø1.2 to ø1.6	Orange	
ZS-28-C-3	22 to 20	0.3 to 0.5	ø1.0 to ø1.2	Green	
ZS-28-C-4			ø1.2 to ø1.6	Blue	
ZS-28-C-5			ø1.6 to ø2.0	Gray	
ZS-28-CA-1			ø0.6 to ø0.9	Orange	
ZS-28-CA-2			ø0.9 to ø1.0	Red	
ZS-28-CA-3	–	0.1 to 0.5	ø1.0 to ø1.15	Yellow	
ZS-28-CA-4			ø1.15 to ø1.35	Blue	
ZS-28-CA-5			ø1.35 to ø1.6	Green	

e-CON Connector Specifications (Input/Output)

Input

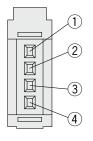
Power supply socket connector wiring specifications



Pin no.	Terminal name		
1	24 V (For control/input)		
2	N.C.		
3	0 V (For control/input)		
4	N.C.		
	·		

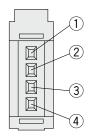
Output

Power supply socket connector wiring specifications



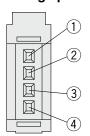
Pin no.	Terminal name	
1	24 V (For control/input)	
2	24 V (For output)	
3	0 V (For control/input)	
4	0 V (For output)	

Socket connector for input device connection wiring specifications



Pin no.	Terminal name		
1	24 V (For control/input)		
2	N.C.		
3	0 V (For control/input)		
4	IN		

Socket connector for output device connection wiring specifications



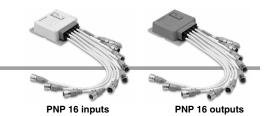
Terminal name			
N.C.			
N.C.			
0 V (For output)			
OUT			



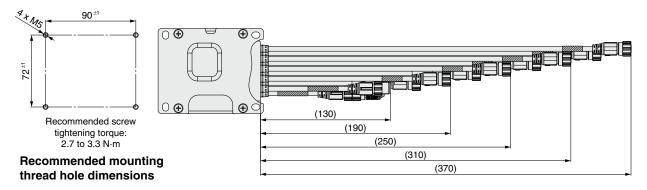
EX600-W Series

Dimensions

Grommet Type



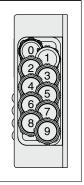
(105) (340)90 ±0.2 (280) (220)(160) 8.2 FG (100) 2.5 terminal 6.2 Section A (85) 72 ^{±0.2} Labeling, 8.2 Section A With short jumper connected



Input

Connector Arrangement Specifications

No.	Description	Cable length [mm]	Labeling	Cable with M12 connector
0	Pairing line	100	PAIRING	M12, 4-pin,
1	Power supply line	130	POWER	plug (Male)
2	Input E/F	160	E/F	
3	Input C/D	190	C/D	
4	Input A/B	220	A/B	
5	Input 8/9	250	8/9	M12, 5-pin, socket
6	Input 6/7	280	6/7	(Female)
7	Input 4/5	310	4/5	()
8	Input 2/3	340	2/3	
9	Input 0/1	370	0/1	



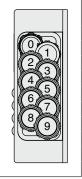
Connector Specifications

	Labeling	PAIRING	POWER	0/1 to E/F	M12, 4-pin plug	M12, 5-pin socket
	Pin no.	I	Description			
	1	Short jumper Connected:	Power supply for control: + (COM)	Power supply for control: + (COM)	2 1	1 2
	2	Normal mode	N.C.	Input n + 1	(00)	(05)
	3	(3-pin to 4-pin short) Not connected:	Power supply for control: – (COM)	Power supply for control: – (COM)	3 0 0	4 0 0
Ī	4	Pairing mode	N.C.	Input n		
	5	_	_	N.C.		

Output

Connector Arrangement Specifications

No.	Description	Cable length [mm]	Labeling	Cable with M12 connector
0	Pairing line	100	PAIRING	M12, 4-pin,
1	Power supply line	130	POWER	plug (Male)
2	Output E/F	160	E/F	
3	Output C/D	190	C/D	
4	Output A/B	220	A/B	
5	Output 8/9	250	8/9	M12, 5-pin, socket
6	Output 6/7	280	6/7	(Female)
7	Output 4/5	310	4/5	(1 0.110.0)
8	Output 2/3	340	2/3	
9	Output 0/1	370	0/1	



Connector Specifications

Connector opecations					
Labeling	PAIRING	POWER	0/1 to E/F	M12, 4-pin plug	M12, 5-pin socket
Pin no.	Description				
1	Short jumper Connected: Normal mode (3-pin to 4-pin short) Not connected: Pairing mode	Power supply for control: + (COM)	N.C.		1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
2		Power supply for output: + (COM)	Output n + 1		
3		Power supply for control: – (COM)	Power supply for output: – (COM)		
4		Power supply for output: – (COM)	Output n		
5		_	N.C.		

EX600-W Series **Important**

_MWarning

The product is certified as a wireless equipment in accordance with the Radio Act and the Japanese radio law has been obtained. Customers do not need to apply for a license to use this equipment.

Be sure to comply with the following precautions.

details on what types of equipment need to be avoided.

- · Do not disassemble or modify the product. Disassembly and modification are prohibited by law.
- This product is for use in Japan, European countries (Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, U.K., Turkey), the U.S. and Canada. For use in other countries, please contact SMC.
- This product communicates by radio waves, and the communication may stop instantaneously due to ambient environments and operating methods. SMC will not be responsible for any secondary failure which may cause personal injury, or damage to other devices or equipment.
- •When several units are installed closely to each other, slight interference may occur due to the characteristics of the wireless product.
- The electromagnetic waves emitted from this product may interfere with implantable medical devices such as cardiac pacemakers and cardioverter defibrillators, resulting in the malfunction of the medical device or other adverse effects. Please use extreme caution when operating equipment which may have an adverse effect on your implantable medical device. Be sure to thoroughly read the precautions stated in the catalog, operation manual, etc., of your implantable medical device, or contact the manufacturer directly for further
- The communication performance is affected by the ambient environment, so please perform the communication testing before use.

* As of end of September, 2020

↑ Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.

SMC Corporation

Akihabara UDX 15F

4-14-1, Sotokanda, Chiyoda-ku, Tokyo 101-0021, JAPAN Phone: 03-5207-8249 Fax: 03-5298-5362

https://www.smcworld.com

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