Wireless System





Usable even in welding environments

Noise resistance

High-speed connection

Communication response

Uses the 2.4 GHz ISM frequency band Frequency hopping: Every 5 ms

From power supply ON to start of communication:

Signal response time: 5 ms

Min. 250 ms For wireless remote

E E 66

Communication cables not required

Reduced wiring work, space, and cost Minimized disconnection risk

Number of I/O points

Max. 1280 inputs/1280 outputs (Registration and communication of up to 127 remote units is possible.)

Compatible protocol

EtherNet/IP











Wireless remote unit

EX600-W Series

Countries in which wireless is supported This product cannot be used in countries where wireless is not supported. (For details

p. 22)

Spot welding

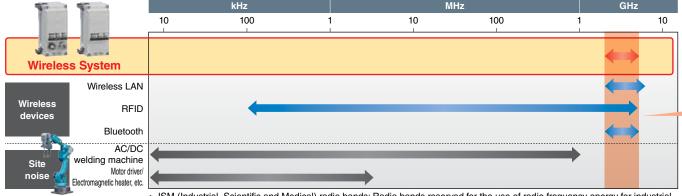
Country	Standard	
Japan	(Japanese radio law)	
EU	(CE marking/RE Directive)	
USA	F© (FCC)	



Wireless Remote

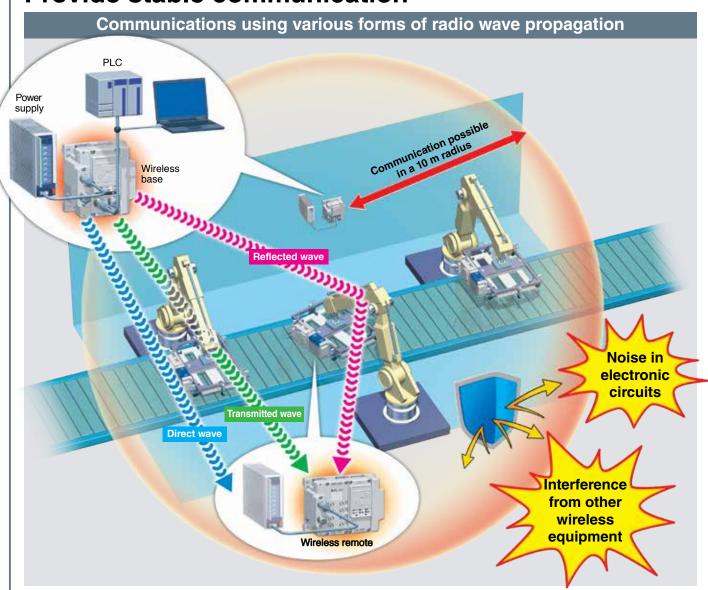
Provide safe and reliable communication

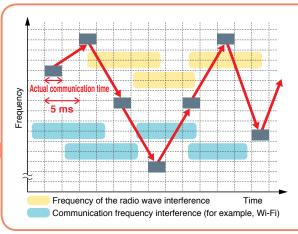
Uses the 2.4 GHz ISM frequency band



* ISM (Industrial, Scientific and Medical) radio bands: Radio bands reserved for the use of radio frequency energy for industrial, scientific and medical purposes.

Provide stable communication





Frequency hopping: Every 5 ms

A stable wireless environment is established using an original protocol which is not affected by interference. Interference from other wireless equipment is prevented.

Frequency Hopping

The communication technology rapidly changes frequency (hopping), to prevent interference from other wireless equipment. When the frequency of Wi-Fi and other wireless communications compete, or radio wave interference is present, then other frequencies are used for communication. For details, refer to technical data on page 22.

High security using encryption

Unauthorized access from outside is prevented by using data encryption.



Point-to-Multipoint communication

Registration and communication of up to 127 wireless remote units is possible.



- st 1 to 15 units are recommended for simultaneous operation
- * It is possible to install multiple wireless bases in the same area

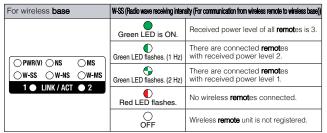
Wireless communication status can be monitored. <Monitoring the remote communication status>

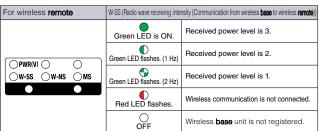
The wireless system connection can be monitored during operation according to the diagnostic data.

The installation location can be ascertained according to the intensity level of the radio wave received by the unit display.

[Diagnostic data]

- * When communication from the remote cannot be received.
- * When communication retry has exceeded the upper limit (32 times).[Unit display]





* A received radio wave intensity level of 1 means the intensity is weak. Add a wireless **base** so that the wave intensity becomes level 3 or 2. Alternatively remove the obstacle between the **base** and **remote**, or reduce the distance between the **base** and **remote**.

<Communication status can be downloaded by a PC>

By connecting the wireless **base** to a PC, it is possible to view log files which show the number of retries or the received radio wave intensity. Log files are accessed by using a web browser to connect to the built-in WEB server. The wireless environment and installation location can be optimized by checking the number of retries and received radio wave intensity.



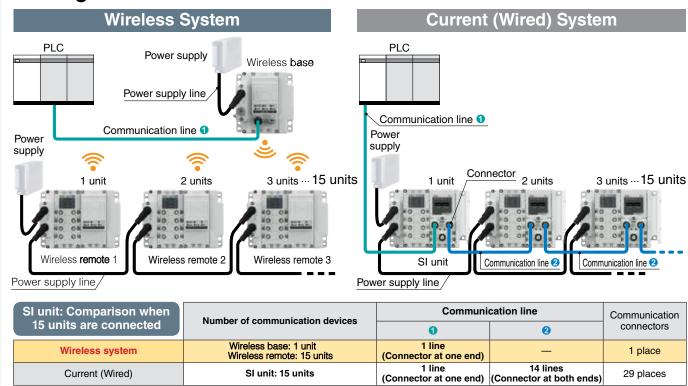
The log files showing the number of retries or the received radio wave intensity, can be downloaded in the form of a CSV file.



Web screen example



Wiring material cost and installation man-hours can be reduced.



Interchangeability maintained

unit is limited to 128 points.

Connection interchangeability between EX600 series SI units is maintained.

Replacement of wireless and wired systems is possible.

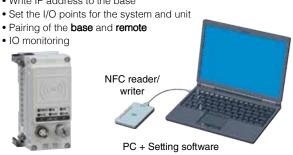


NFC contactless communication

(NFC: Near Field Communication)

Settings are possible using an NFC reader/ writer and setting software. (Some items can be set when there is no power supplied)

• Write IP address to the base



Configuration File

* Maximum I/O of wireless base/remote

Documents/Download

Instruction Manuals

Fieldbus System
Serial Transmission System

EtherNet/IPTM Compatible

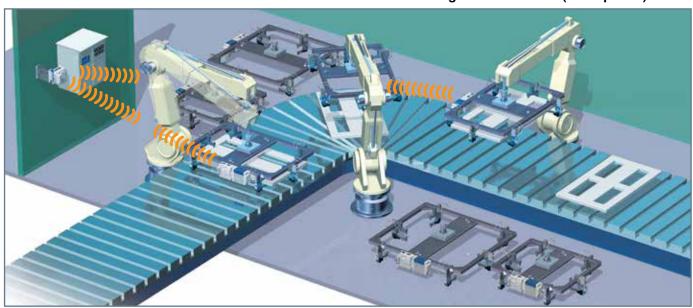
I/O Configurator for NFC

Configuration File

Application Examples

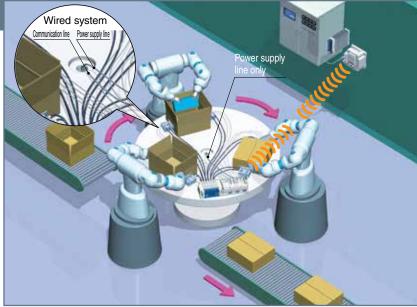
Tool change

- Communication cable is not necessary for moving parts.
- Minimized disconnection risk
- Shorter time for establishing communication (startup time)



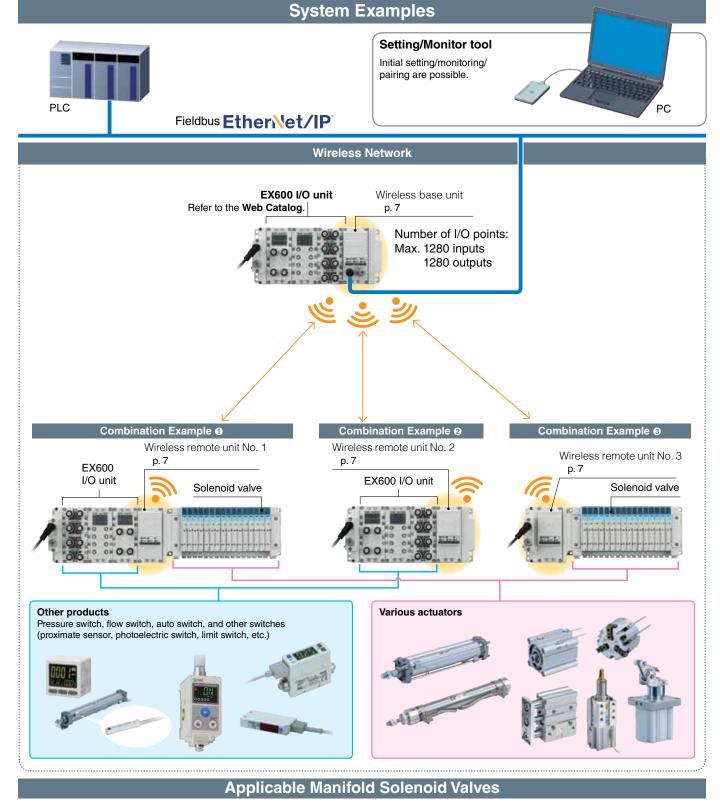
Rotary table

- Minimized disconnection risk
- Smaller diameter communication cable/tubing



Blocking of radio waves

* The radio waves must not be blocked by nearby conductive objects such as metal enclosures or covers.











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Wireless System **EX600-W** Series





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Wireless System

EX600-W Series



How to Order

SI Unit

EX600-WEN

Wireless compatible

SI unit

Output type Symbol Specifications

NPN

2

			0
Symbol Specifications EN Wireless base unit		Specifications	Note
		Wireless base unit	For EtherNet/IP™
	SV	Wireless remote unit	_



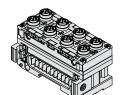




Wireless remote unit

Digital Input Unit

EX600-DXPD



Input type

	iiipat typo -
Symbol	Description
Р	PNP
N	NPN

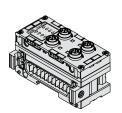
For specifications, refer to the Fieldbus system EX600 series in the Web Catalog.

Number of inputs and Connector

Symbol	Number of inputs	Connector
В	8 inputs	M12 connector (5 pins) 4 pcs.
C 8 inputs M8 conr		M8 connector (3 pins) 8 pcs.
D	16 inputs	M12 connector (5 pins) 8 pcs.
E 16 inputs D-		D-sub connector (25 pins)
F	16 inputs	Spring type terminal block (32 pins)

Digital Output Unit

EX600-DYPB

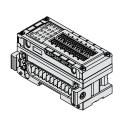


Output type • Description PNP N NPN

Symbol	Number of outputs	Connector
В	8 outputs	M12 connector (5 pins) 4 pcs.
E	16 outputs	D-sub connector (25 pins)
F	16 outputs	Spring type terminal block (32 pins)

For specifications, refer to the Fieldbus system EX600 series in the Web Catalog.

Digital Input/Output Unit **EX600-DMP**



Input/Output type

	Symbol	Description
	Р	PNP
	N	NPN

Number of inputs/outputs and Connector

Symbol	Number of inputs	Number of outputs	Connector
Е	8 inputs	8 outputs	D-sub connector (25 pins)
F	8 inputs	8 outputs	Spring type terminal block (32 pins)

For specifications, refer to the Fieldbus system EX600 series in the Web Catalog.



How to Order

Analog Input Unit

EX600-AXA



Number of input channels and Connector

Symbol Number of input channels		Connector
Α	2 channels	M12 connector (5 pins) 2 pcs.



For specifications, refer to the Fieldbus system EX600 series in the Web

Analog Output Unit

EX600-AY A

Analog output

Number of output channels and Connector

Symbol Number		Number of output channels	Connector
	Α	2 channels	M12 connector (5 pins) 2 pcs.

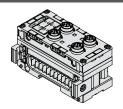
For specifications, refer to the Fieldbus system EX600 series in the Web Catalog.

Analog Input/Output Unit **EX600 – AM B**

Analog input/output

Number of input/output channels and Connector

Symbol	Number of input channels	Number of output channels	Connector
В	2 channels	2 channels	M12 connector (5 pins) 4 pcs.



For specifications, refer to the Fieldbus system EX600 series in the Web Catalog.

End Plate (D side)

EX600-ED 2

End plate

End plate mounting position: D side

Power supply connector

Symbol	Specifications	
2	IN	
3	7/8 inch (5 pins)	IN
4 M12 (4/5 pins) A-coded*		IN/OUT
5	M12 (4/5 pins) A-coded*1	IN/OUT

Mounting method

Symbol	Description	Note	
Nil Without DIN rail mounting bracket		_	
2	With DIN rail mounting bracket	For SV, S0700, VQC series	
3	With DIN rail mounting bracket	For SY series	

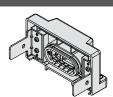
* When the end plate (U side) is used, the symbol for the mounting method must be the same as the D side.

For M12 For 7/8 inch

> *1 The pin layout for "4" and "5" pin connector is different. Refer to the dimensions on page 14.

End Plate (U side)

EX600-EU1



End plate

End plate mounting position: U side

Specifications

- opcomoditorio			
Symbol	Specifications		
1	Waterproof cover		

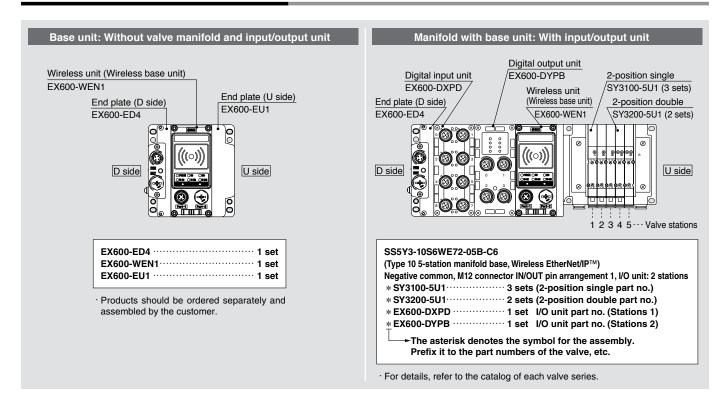
Mounting method

Symbol	Description
Nil	Without DIN rail mounting bracket
2	With DIN rail mounting bracket

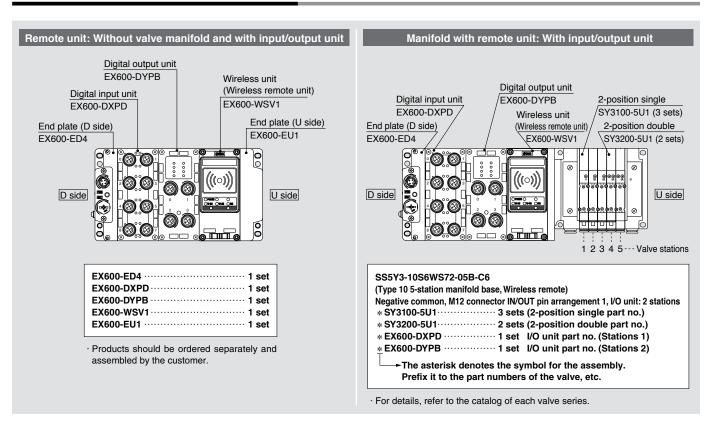
* When the end plate (D side) is used, the symbol for the mounting method must be the same as the U side.



Ordering Example of the Base Unit



Ordering Example of the Remote Unit





Specifications

Wireless Base Unit: EX600-WEN□

	Item	-WEINL	Specifications		
	Communication	protocol	EtherNet/IP™ (Conformance test version: Composit 12)		
	Transmission me	edium (cable)	Standard Ethernet cable (CAT5 or higher, 100BASE-TX)		
	Communication speed		10 Mbps/100 Mbps		
	Communication method		Full duplex/Half duplex		
	Configuration file		EDS file*1		
	IP address setting	ng	Manual/BOOTP, DHCP		
EtherNet/IP™ communication	Device information		Vendor ID: 7 (SMC Corp.) Device type: 12 (Communication Adaptor) Product code: 186		
	Topology		Star, Bus, Ring (DLR), Line, Tree		
	QuickConnect™	function	Applicable		
	DLR function		Applicable		
	Web server func	tion	Applicable		
	Protocol		SMC original protocol (SMC encryption)		
	Radio wave type	(spread)	Frequency Hopping Spread Spectrum (FHSS)		
	Frequency		2.4 GHz (2403 to 2481 MHz)		
Wireless communication	Number of frequ	ency channels	79 ch (Bandwidth: 1.0 MHz)		
Communication	Communication	speed	250 kbps		
	Communication distance		32.8 ft (10 m) (Depending on the operating environment)		
	Radio Law certif	icate	Japanese radio law (Japan), RE (EU*2), FCC (USA)		
	For control/input	Power supply voltage	24 VDC ±10%		
	(US1)	Current consumption	150 mA or less		
Electrical	For output (US2)	Power supply voltage	24 VDC ±10%		
		Max. supply current	4 A		
	Number of inputs Number of outputs	System input size	Max. 1280 points together with the registered remote units		
		Input size	Max. 128 points (increase or decrease by 16 points)		
		System output size	Max. 1280 points together with the registered remote units		
		Output size	Max. 128 points (increase or decrease by 16 points)		
	Analog	AD refresh time	10 ms or less (the input connected to the base unit)		
	input/output	DA refresh time	10 ms or less (the output connected to the base unit)		
Input/Output		Output type	EX600-WEN1: Source/PNP (-COM) EX600-WEN2: Sink/NPN (+COM)		
	Valve output	Number of outputs	Max. 32 points (0/8/16/24/32 points)		
		Connected load	Solenoid valve with surge voltage suppressor of 24 VDC and 1.5 W or less (manufactured by SMC		
	Number of remo	te units connected	Max. 127 units (0/15/31/63/127 units)		
	Number of connected EX600 I/O units		Max. 9 EX600 series I/O units (I/O = 128. I/O above 128 cannot be recognized.)		
	Enclosure		IP67 equivalent (with manifold assembled)		
	Ambient tempera	ture (Operating temperature)	14 to 122 °F (-10 to +50°C)		
	Ambient tempera	ture (Storage temperature)	-4 to 140 °F (-20 to +60°C)		
0	Ambient humidit	у	35 to 85% RH (No condensation)		
General	Withstand voltage	je	500 VAC for 1 minute between external terminals and metallic parts		
	Insulation resistance		10 MΩ or more (500 VDC between external terminals and metallic parts)		
	Standards		CE marking, RoHS compliant		
	Weight		10.58 oz (300 g)		
	Communication	standard	ISO/IEC14443B (Type-B)		
NFC	Frequency		13.56 MHz		
communication*3	Communication speed		20 to 100 kHz (I2C)		
	Communication	<u> </u>	Up to 0.4 in (1 cm)		

^{*1} The configuration file can be downloaded from the SMC website: http://www.smcworld.com

■ Trademark

EtherNet/IP™ is a trademark of ODVA.



^{*2} 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

^{*3} The NFC communication RFID tag of the 13.56 MHz passive type

Specifications

Wireless Remote Unit: EX600-WSV□

	Item	1	Specifications	
	For control/input	Power supply voltage	24 VDC ±10%	
Electrical	(US1)	Current consumption	70 mA or less	
Electrical	For output	Power supply voltage	24 VDC ±10%	
	(US2)	Max. supply current	4 A	
	Number of inputs	Input size	Max. 128 points (increase or decrease by 16 points)	
	Number of outputs	Output size	Max. 128 points (increase or decrease by 16 points)	
Input/Output	Valve output	Output type	EX600-WSV1: Source/PNP (-COM) EX600-WSV2: Sink/NPN (+COM)	
input/Output	vaive output	Number of valve manifold connections	Max. 32 points (0/8/16/24/32 points)	
		Connected load	Solenoid valve with surge voltage suppressor of 24 VDC and 1.5 W or less (manufactured by SMC)	
	AD/DA refresh	time	0.1/0.2/0.5/1/2/5/10/30/60 s*2	
	Number of cor	nnected EX600 I/O units	Max. 9 EX600 I/O units (I/O = 128. I/O above 128 cannot be recognized.)	
	Protocol		SMC original protocol (SMC encryption)	
	Radio wave type (spread)		Frequency Hopping Spread Spectrum (FHSS)	
Wireless	Frequency		2.4 GHz (2403 to 2481 MHz)	
communication	Number of frequency channels		79 ch (Bandwidth: 1.0 MHz)	
	Communication	on speed	250 kbps	
	Communication distance		32.8 ft (10 m) (Depending on the operating environment)	
	Radio Law cer	tificate	Japanese radio law (Japan), RE (EU*1), FCC (USA)	
	Enclosure		IP67 equivalent (with manifold assembled)	
	Ambient temperature (Operating temperature)		14 to 122 °F (-10 to +50°C)	
	Ambient temperature (Storage temperature)		-4 to 140 °F (-20 to +60°C)	
General	Ambient humidity		35 to 85% RH (No condensation)	
General	Withstand volt	tage	500 VAC for 1 minute between external terminals and metallic parts	
	Insulation resistance		10 $M\Omega$ or more (500 VDC between external terminals and metallic parts)	
	Standards		CE marking, RoHS compliant	
	Weight		9.87 oz (280 g)	
	Communication	on standard	ISO/IEC14443B (Type-B)	
NFC	Frequency		13.56 MHz	
communication*3	Communication	on speed	20 to 100 kHz (I2C)	
	Communication distance		Up to 0.4 in (1 cm)	

^{*1} 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 *2 Varies depending on the wireless communication status and the surrounding environment.

End Plate (D side): EX600-ED4/5-□

	Item		Specifications		
	Connector type	PWR IN	M12 plug, 4-pin		
	Connector type	PWR OUT	M12 socket, 5-pin		
Electrical	Rated voltage	Power supply for output	24 VDC +10%/-5%		
Electrical	nateu voitage	Power supply for control/input	24 VDC ±10% (the power supply for the unit is shut off at 17 V or less)		
	Rated current	Power supply for output	Max. 4 A		
	nated current	Power supply for control/input	Max. 4 A		
	Enclosure		IP67 (with manifold assembled)		
	Withstand voltage		500 VAC for 1 minute (between FE and external terminals)		
	Insulation resistance		10 $M\Omega$ or more (500 VDC between FE and external terminals)		
General	Ambient	Operating	14 to 122 °F (-10 to +50°C)		
	temperature	Stored/Transported	-4 to 140 °F (-20 to +60°C)		
	Ambient humidity		35% to 85% RH (No condensation)		
	Standards		CE marking, RoHS compliant		

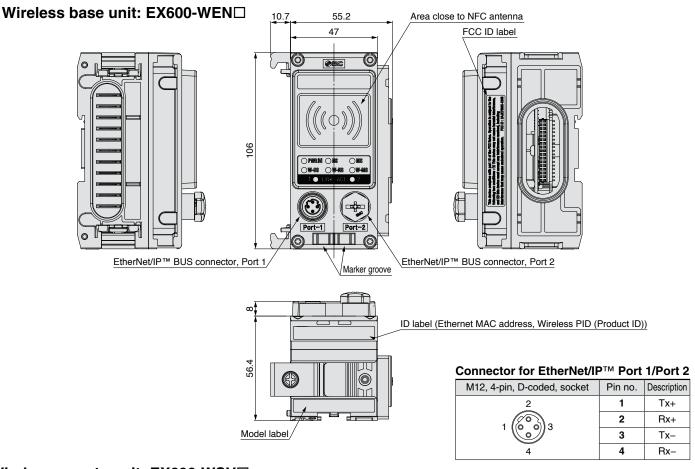
^{*} For the EX600-ED2/3-□, refer to the Fieldbus system EX600 series in the **Web Catalog**.

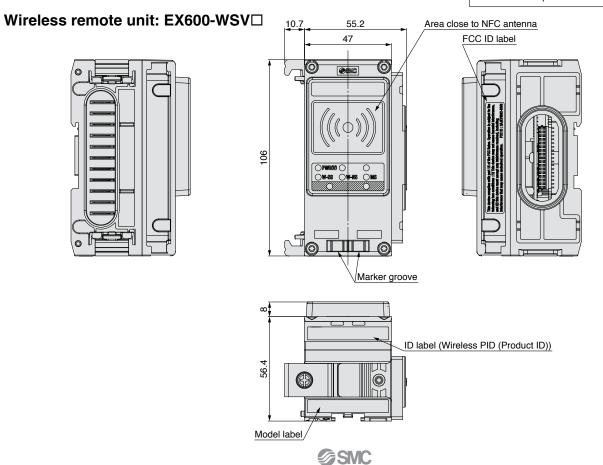


^{*3} The NFC communication RFID tag of the 13.56 MHz passive type

Wireless System **EX600-W** Series

Dimensions

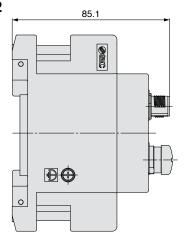


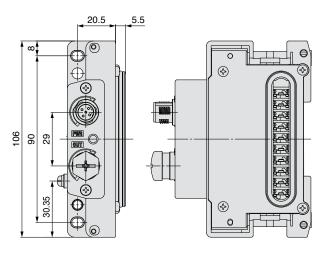


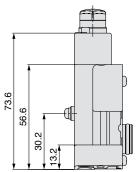
Dimensions

End plate (D side)

EX600-ED2



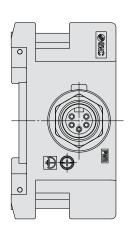


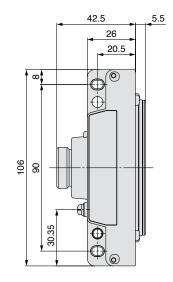


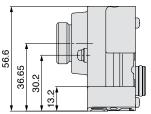
Power supply connector PWR: M12 5-pin plug, B-coded

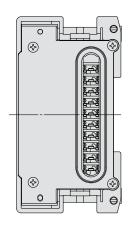
Configuration	Pin no.	Description	
	1	24 V (for output)	
2 1	2	0 V (for output)	
5(000)	3	24 V (for control/input)	
3 4	4	0 V (for control/input)	
	5	FE	

EX600-ED3









Power supply connector PWR: 7/8 inch 5-pin plug

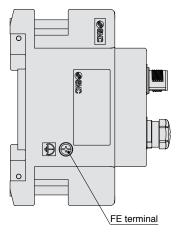
Configuration	Pin no.	Description
	1	0 V (for output)
5	2	0 V (for control/input)
(2 4)	3	FE
03	4	24 V (for control/input)
<u> </u>	5	24 V (for output)

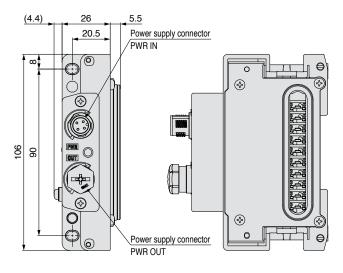


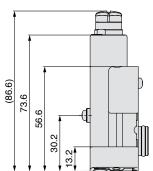
Wireless System **EX600-W** Series

Dimensions

End plate (D side) EX600-ED4/5





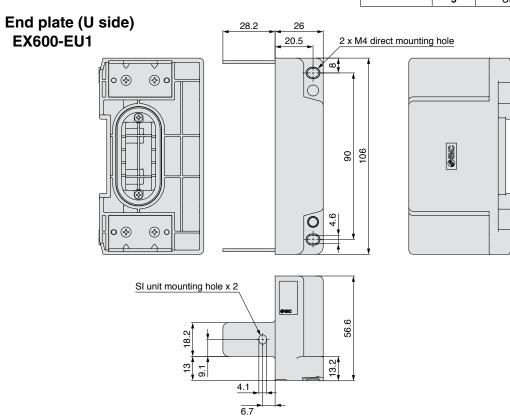


Power supply connector PWR IN: M12 4-pin plug, A-coded

Configuration	EX600-ED4 (Pin arrangement 1)		EX600-ED5 (Pin arrangement 2)	
Corniguration	Pin no.	Description	Pin no.	Description
3 _ 2	1	24 V (for control/input)	1	24 V (for output)
6 9	2	24 V (for output)	2	0 V (for output)
(0 9)	3	0 V (for control/input)	3	24 V (for control/input)
4 1	4	0 V (for output)	4	0 V (for control/input)

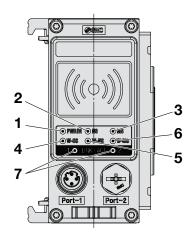
Power supply connector PWR OUT: M12 5-pin socket, A-coded

	EX600-ED4 (Pin arrangement 1)		EX600-ED5 (Pin arrangement 2)	
Configuration	Pin no.	Description	Pin no.	Description
1 2	1	24 V (for control/input)	1	24 V (for output)
66	2	24 V (for output)	2	0 V (for output)
	3	0 V (for control/input)	3	24 V (for control/input)
4 5 3	4	0 V (for output)	4	0 V (for control/input)
. 5	5	Unused	5	Unused



LED Display

Wireless base unit EtherNet/IP™ communication specifications



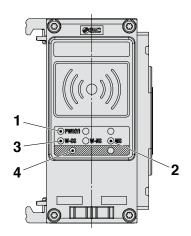
output (US2) Cream LED is oN. EtherNet/IP™ communication is established. Cream LED is oN. EtherNet/IP™ communication is established. Cream LED is oN. EtherNet/IP™ communication is established. Cream LED is oN. Duplicated IP addresses are detected. OFF IP address not set OFF IP address not set OFF IP address has emodule is normal. Green LED is oN. Wireless base module is normal. Green LED is oN. Wireless base module is normal. Green LED is oN. Wireless base module is normal. Cream LED is oN. Wireless base module is normal. OFF IP address not set OFF OFF IP address not set OFF OFF	No.	LED name	Function	Color of LED	Operation
PWR (V) voltage for output (US2) Red LED fashes. Power suply log control and input (US1) is not supplied for put (US1) is not supplied for power supply for control and input (US1) is not supplied for power supply for control and input (US1) is not supplied for power supply for control and input (US1) is not supplied for power supply for control and input (US1) is not supplied for power supply for control and input (US1) is not supplied for power supply for control and input (US1) is not supplied for power supply for control and input (US1) is not supplied for power supply for control and input (US1) is not supplied for power supply for control and input (US1) is not supplied for more into wireless base. 4 W-SS			Power supply	Green LED is ON.	Power supply voltage for output (US2) is normal.
There is a status of the communication of the comm	1	PWR (V)	voltage for	Red LED flashes.	Power supply voltage for output (US2) is abnormal. (Indication only. The product can be operated.)
Semilar Communication C				OFF	Power supply for control and input (US1) is not supplied.
Red LED flashes. Red LED is ON. OFF IP address not set Green LED is ON. OFF IP address are detected. OFF IP address set are detected. Green LED is ON. Annormal power supply voltage level for control and input on the case of the case o				Green LED is ON.	EtherNet/IP™ communication is established.
Status			EtherNet/IP™	Green LED flashes.	EtherNet/IP™ communication is not established.
A Wireless base module system status Green LED is ON. Circen	2	NS		Red LED flashes.	EtherNet/IP™ communication time out
Series Communication on status Green LED is ON. Green LED is ON. EtherNet/IP™ communication is not connected. Restorable error is detected. (LED flashes when one diagnostic information item or more is detected.) - Abnormal power supply voltage level for control and input - Excessive I/O setting inputs/outputs Annother Annot	İ		status	Red LED is ON.	Duplicated IP addresses are detected.
Separation Communication				OFF	IP address not set
Wireless base module system status A				Green LED is ON.	Wireless base module is normal.
Wireless base module system status				Green LED flashes.	EtherNet/IP™ communication is not connected.
A W-SS Radio wave receiving intensity Green LED is ON. There are connected remotes with received power level of all remotes is 3. There are connected remotes with received power level of the promote in the property of the prop	3	MS	module system	Red LED flashes.	diagnostic information item or more is detected.) Abnormal power supply voltage level for control and input Excessive I/O setting inputs/outputs Analog I/O upper set limit exceeded Analog I/O upper and lower limit exceeded Abnormal number of remote connections Error in communication between units EX600 I/O unit detects diagnostic information
A W-SS Radio wave receiving intensity Green LED is ON. There are connected remotes with received power level of all remotes is 3. There are connected remotes with received power level of the promote in the property of the prop				Red I FD is ON	•
Radio wave receiving intensity W-SS Red LED lisches, [1-hz] For communication from wireless remote to wireless base) W-NS W-NS Wireless communication status Wireless remote module connection system status Wireless remote module connection system status Red LED lisches, [1-hz] Wireless remote module connection system status Red LED lisches, [1-hz] Wireless remote module connection system status Red LED lisches, [1-hz] Wireless remote module connection system status Red LED lisches, [1-hz] Wireless remote module connection system status Red LED lisches, [1-hz] Wireless remote units are unconnected. (Non-restorable error in wireless communication) Wireless remote units are unconnected. (Non-restorable error in wireless communication) Wireless remote units are unconnected. (Non-restorable error in wireless communication) Wireless remote units are unconnected. (Non-restorable error in wireless communication) Wireless remote unit is not registered. Red LED lisches, [1-hz] Wireless remote unit is not registered. Red LED lisches, [1-hz] Wireless remote unit is not registered. Red LED lisches, [1-hz] Wireless remote unit is not registered. Red LED lisches, [1-hz] Wireless remote unit is not registered. Red LED lisches, [1-hz] Wireless remote unit is not registered. Red LED lisches, [1-hz] Red LED lisches, [1-hz] Wireless remote unit is not registered. Red LED lisches, [1-hz] Red LED lisches, [1-hz] Wireless remote unit is not registered. Red LED lisches, [1-hz] Red					1 7
Macro wave receiving intensity Grein LED flashes, (1 Hz) There are connected remotes with received power level of Grein LED flashes (2 Hz) There are connected remotes with received power level of Grein LED flashes. No wireless remote unit is not registered.				_	
W-SS For communication from wireless remote to wireless semote to wireless semote to wireless sease) Fed LED flashes. No wireless remote sonnected.					•
from wireless remote to wireless base) Red LED flashes. No wireless remotes connected.	4	W-SS	(For communication from wireless remote	` '	
The status of th	•			` '	·
Wireless communication connection status Wireless remote units are unconnected wireless remote units. Red LED is ON. All wireless remote units are unconnected. All wireless remote units are unconnected. (Non-restorable error in wireless communication) Red/Green Wireless communication connection is under construction. (Pairin Orange LED is ON. OFF Wireless remote unit is not registered. Wireless remote unit is not registered. Green LED is ON. Wireless remote unit is not registered. Red LED is ON. Wireless remote unit is not registered. Red LED is ON. Wireless remote unit is not registered. Red LED is ON. Wireless remote unit is not registered. Red LED is ON. Wireless remote unit is not registered. Restorable error is detected. (LED flashes when one diagnostic information item or more is detected.) Abnormal power supply voltage level for control and input (US 2) Excessive I/O setting inputs/outputs Analog I/O upper set limit exceeded Analog I/O upper set limit exceeded Error in communication between units EX600 I/O unit detects diagnostic information Valve diagnostic information detected Red LED is ON. Non-restorable error is detected. (e.g. Hardware failure) OFF No wireless remote unit connected. Green LED is ON. Link, No Activity (100 Mbps) Green LED is ON. Link, No Activity (100 Mbps) Link, Activity (100 Mbps) Torged units are unconnected. All wireless remote units are unconnected. Red LED is ON. Non-restorable error in wireless communication is under construction. (Pairin Wireless remote unit under construction.) Forced output mode No elactivity (100 Mbps) Torged untition and construction. Torged untition and construction. (Pairin Wireless remote units are unconnected. Excessive I/O setting inputs/outputs Analog I/O upper and lower limit exceeded Error in communication between units EX600 I/O unit detects diagnostic information Valve diagnostic information detected Excessive I/O setting inputs/outputs Analog I/O upper and lower limit exceeded Error in communication setti					
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W-NS Wireless communication connection status Wireless communication connection status W-NS Wireless remote units are unconnected. Red LED is ON. Red/Green Orange LED is ON. Forced output mode OFF Wireless remote unit is not registered. Green LED is ON. Wireless remote unit is not registered. Green LED is ON. Wireless remote unit is not registered. Red LED flashes. Red LED is ON. Non-restorable error is detected. (e.g. Hardware failure) Red LED is ON. Non-restorable error is detected. (e.g. Hardware failure) Red LED is ON. Link, No Activity (100 Mbps) Red LED flashes. Link, Activity (10 Mbps)					
W-NS W-NS W-NS W-NS W-NS W-NS Red LED is ON. Red/Green Wireless communication connection status Red LED is ON. Red/Green Wireless communication connection is under construction. (Pairin Orange LED is ON. OFF Wireless remote unit is not registered. Wireless remote module is normal. Restorable error is detected. (LED flashes when one diagnostic information item or more is detected.) Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for output (US2) Excessive I/O setting inputs/outputs Analog I/O upper set limit exceeded Analog I/O upper and lower limit exceeded Error in communication between units EX600 I/O unit detects diagnostic information Valve diagnostic information detected Red LED is ON. Non-restorable error is detected. (e.g. Hardware failure) OFF No wireless remote unit connected. Communication status of EtherNet/IPTM ports 1 and 2 Tommunication status of EtherNet/IPTM ports 1 and 2 Tommunication Status of EtherNet/IPTM ports 1 and 2 Tommunication Status of Red LED is ON. Tomage LED is ON. Tom			Wireless	Red LED flashes.	All wireless remote units are unconnected.
W-NS Connection status Red LED is ON. (Non-restorable error in wireless communication)					
Activity Communication C	5	W-NS		Red LED is ON.	
Green LED is ON. Wireless remote module is normal. Restorable error is detected. (LED flashes when one diagnostic information item or more is detected.) Abnormal power supply voltage level for control and input (US2) Excessive I/O setting inputs/outputs Analog I/O upper and lower limit exceeded Error in communication between units EX600 I/O unit detects diagnostic information Valve diagnostic information detected Red LED is ON. Non-restorable error is detected. (e.g. Hardware failure) OFF No wireless remote unit connected. Communication status of EtherNet/IPTM ports 1 and 2 INK/ACT1 LINK/ACT2 LINK/ACT2 To Mireless remote unit is not registered. Wireless remote module is normal. Restorable error is detected. (LED flashes when one diagnostic information item or more is detected.) Abnormal power supply voltage level for control and input (US2) Excessive I/O setting inputs/outputs Analog I/O upper set limit exceeded Error in communication between units EX600 I/O unit detects diagnostic information Valve diagnostic information detected. Red LED is ON. Non-restorable error is detected. (e.g. Hardware failure) OFF No wireless remote unit connected. Communication status of EtherNet/IPTM ports 1 and 2 Link, No Activity (100 Mbps) To Abnormal power supply voltage level for control and input (US2) Excessive I/O setting inputs/outputs Analog I/O upper set limit exceeded End LED is ON. Non-restorable error is detected. (e.g. Hardware failure) OFF No wireless remote unit connected. Link, No Activity (100 Mbps) Link, Activity (100 Mbps) To Abnormal power supply voltage level for control and input (US2) Excessive I/O setting inputs/outputs Analog I/O upper set limit exceeded Error in communication between units EX600 I/O unit detects diagnostic information Excessive I/O setting inputs/outputs Analog I/O upper set limit exceeded Error in communication between units EX600 I/O unit detects diagnostic information Excessive I/O setting inputs/outputs Analog I/O upper set limit exce			status	Red/Green	Wireless communication connection is under construction. (Pairing)
Green LED is ON. Wireless remote module is normal. Restorable error is detected. (LED flashes when one diagnostic information item or more is detected.) Abnormal power supply voltage level for output (US2) Excessive I/O setting inputs/outputs Analog I/O upper and lower limit exceeded Analog I/O upper and lower limit exceeded Error in communication between units EX600 I/O unit detects diagnostic information Valve diagnostic information detected Red LED is ON. Non-restorable error is detected. (e.g. Hardware failure) OFF No wireless remote unit connected. Communication status of EtherNet/IPTM ports 1 and 2 TINK/ACT1 LINK/ACT2 LINK/ACT2 TOMMUNICATION Missing IP address has been duplicated.				Orange LED is ON.	Forced output mode
Wireless remote module connection system status Red LED flashes. Red LED is ON. LINK/ACT1 LINK/ACT2 Wireless remote module connection system status Red LED is ON. LINK/ACT2 Red LED is ON. Communication status of EtherNet/IP™ ports 1 and 2 100 Mbps: Green Red LED is ON. Red LED is ON. Red LED is ON. Red LED is ON. Communication status of EtherNet/IP™ ports 1 and 2 Orange LED is ON. Red LED is ON. Red LED is ON. Red LED is ON. Communication status of EtherNet/IP™ ports 1 and 2 Orange LED is ON. Red LED is ON. Red LED is ON. Communication status of EtherNet/IP™ ports 1 and 2 Orange LED is ON. Red LED is ON. Communication status of EtherNet/IP™ ports 1 and 2 Orange LED is ON. Red LED is ON. Communication status of EtherNet/IP™ ports 1 and 2 Orange LED is ON. Computed information item or more is detected. (LED flashes when one diagnostic information item or more is detected.) Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for control and input (US') Abnormal power supply voltage level for control and input (US') Analog I/O upper set limit exceeded Analog I/O upper set limit exceeded Analog I/O upper				OFF	Wireless remote unit is not registered.
W-MS Wireless remote module connection system status Red LED flashes. Red LED is ON. Non-restorable error is detected. (e.g. Hardware failure) No wireless remote unit connected. Red LED is ON. Sommunication status of EtherNet/IP™ ports 1 and 2 Red LED is ON. Communication status of EtherNet/IP™ ports 1 and 2 Non-restorable error is detected. (e.g. Hardware failure) Red LED is ON. Link, No Activity (100 Mbps) Crange LED is ON. Crange LED flashes. Link, Activity (10 Mbps) Red LED is ON. Paddress has been duplicated.				Green LED is ON.	Wireless remote module is normal.
THINK/ACT1 LINK/ACT2 Communication status of EtherNet/IPTM ports 1 and 2 100 Mbps: Green IED is ON. Compute Indicated I	6	W-MS	module connection	Red LED flashes.	diagnostic information item or more is detected.) Abnormal power supply voltage level for control and input (US1) Abnormal power supply voltage level for output (US2) Excessive I/O setting inputs/outputs Analog I/O upper set limit exceeded Analog I/O upper and lower limit exceeded Error in communication between units EX600 I/O unit detects diagnostic information
To LINK/ACT1 LINK/ACT2 Communication status of EtherNet/IPTM ports 1 and 2 Communication Status of Green LED is ON. Link, No Activity (100 Mbps) Corange LED is ON. Link, No Activity (10 Mbps) Corange LED flashes. Link, Activity (10 Mbps) Red LED is ON. IP address has been duplicated.				Red LED is ON.	Non-restorable error is detected. (e.g. Hardware failure)
tatius of EtherNet/IPTM ports 1 and 2 LINK/ACT1 LINK/ACT2 LINK/ACT2 Statius of EtherNet/IPTM ports 1 and 2 Statius of EtherNet/IPTM ports 1 and 2 Orange LED is ON. Link, No Activity (10 Mbps) Orange LED is ON. Link, Activity (10 Mbps) Ink, Activity (10 Mbps) Paddress has been duplicated.				OFF	
Tolerand Link/ACT1	7		Communication	Green LED is ON.	Link, No Activity (100 Mbps)
7 LINK/ACT2 ports 1 and 2 Orange LED flashes. Link, No Activity (10 Mbps) 100 Mbps: Green Red LED is ON. IP address has been duplicated.			status of	Green LED flashes.	Link, Activity (100 Mbps)
LINK/ACT2 Ports 1 and 2 Orange LED flashes. Link, Activity (10 Mbps) Red LED is ON. IP address has been duplicated.				Orange LED is ON.	Link, No Activity (10 Mbps)
100 Mbps: Green Red LED is ON. IP address has been duplicated.			NK/ACT2 ports 1 and 2	_	Link, Activity (10 Mbps)
10 Mbps: Orange OFF Fall-MIDTM:				Red LED is ON.	IP address has been duplicated.
				OFF	EtherNet/IP™ is not connected.



Wireless System **EX600-W** Series

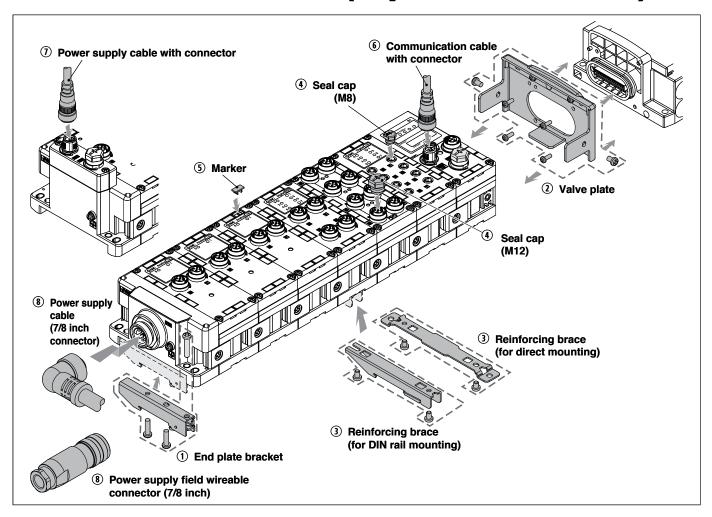
LED Display

Wireless remote unit



No.	LED name	Function	Color of LED	Operation	
	PWR (V)	Power supply	Green LED is ON.	Power supply voltage for output (US2) is normal.	
1		voltage for	Red LED flashes.	Power supply voltage for output (US2) is abnormal. (Indication only. The product can be operated.)	
		output (US2)	OFF	Power supply for control and input (US1) is not supplied.	
			Green LED is ON.	Wireless remote module is normal.	
2	MS	Wireless remote module system status	Red LED flashes.	Restorable error is detected. (LED flashes when one diagnostic information item or more is detected.) · Abnormal power supply voltage level for control and input · Excessive I/O setting inputs/outputs · Analog I/O upper set limit exceeded · Analog I/O upper and lower limit exceeded · Error in communication between units · EX600 I/O unit detects diagnostic information · Valve diagnostic information detected	
			Red LED is ON.	Non-restorable error is detected. (e.g. Hardware failure)	
			OFF	Power supply for control and input (US1) is not supplied.	
		Radio wave receiving intensity (Communication	Green LED is ON.	Received power level is 3.	
	W-SS		Green LED flashes. (1 Hz)	Received power level is 2.	
3			from wireless	Green LED flashes. (2 Hz)	Received power level is 1.
		base to wireless	Red LED flashes.	Wireless communication is not connected.	
		remote)	OFF	Wireless base unit is not registered.	
	W-NS		Green LED is ON	Wireless remote is connected correctly.	
		W-NS Wireless communication connection status	Red LED flashes.	No wireless remotes connected.	
4			Red LED is ON.	No wireless remotes connected (Non-restorable error in wireless communication)	
-			Red/Green	Wireless communication connection is under construction. (Pairing)	
			Orange LED is ON.	Forced output mode	
			OFF	Wireless base unit is not registered.	

Accessories (Optional Parts)



• End Plate Bracket

This bracket is used for the end plate of DIN rail mounting.

EX600-ZMA2

Enclosed parts

Round head screw (M4 x 20) 1 pc. P-tight screw (4 x 14) 2 pcs



EX600-ZMA3

(Specialized for the SY series)

Enclosed parts

Round head screw with washer (M4 x 20) 1 pc. P-tight screw (4 x 14) 2 pcs.

Walve Plate

EX600-ZMV1

Enclosed parts

Round head screw (M4 x 6) 2 pcs. Round head screw (M3 x 8) 4 pcs.



EX600-ZMV2

(Specialized for the SY series)

Enclosed parts

Round head screw (M4 x 6) 2 pcs. Round head screw (M3 x 8) 4 pcs.



Reinforcing Brace

This bracket is used on the bottom of the unit at the intermediate position for connecting 6 units or more.

 Be sure to attach this bracket to prevent connection failure between the units caused by deflection.

For direct mounting EX600-ZMB1

Enclosed parts

Round head screw (M4 x 5) 2 pcs.

For DIN rail mounting EX600-ZMB2

Enclosed parts

Round head screw (M4 x 6) 2 pcs.



Seal Cap (10 pcs.)

Be sure to mount a seal cap on any unused I/O connectors. Otherwise, the specified enclosure cannot be maintained.

For M8 EX9-AWES

For M12 EX9-AWTS







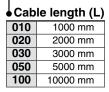
The signal name of I/O device and each unit address can be entered and mounted on each unit.



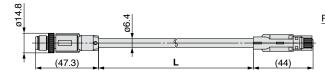
© Communication Cable with Connector/Communication Connector

Cable with M12 ↔ RJ-45 connector

EX9-AC 020 EN-PSRJ (Plug/RJ-45 connector)

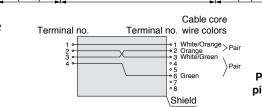








Plug connector pin arrangement D-coded



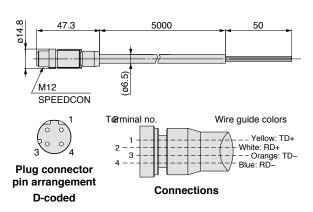
Connections (Straight cable)

Plug connector pin arrangement

Item	Specifications
Cable O.D.	ø6.4 mm
Nominal cross section	0.14 mm ² /AWG26
Wire diameter	0.98 mm
Min. bending radius	26 mm (Fixed)

Cable with connector

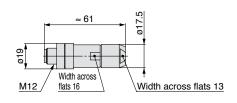
PCA-1446566 (Plug)



Item	Specifications
Cable O.D.	ø6.5 mm
Nominal cross section	AWG22
Wire diameter (Including insulator)	1.5 mm
Min. bending radius	45.5 mm

Field wireable connector

PCA-1446553



(0	0)
6°	0)
Plug	ı pin

Plug pin arrangement D-coded

Terminal no.	Wire guide colors
1	Orange/White
2	Green/White
3	Orange
4	Green

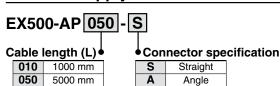
Applicable Cable

Cable O.D.	4.0 to 8.0 mm
Wire gauge (Stranded wire cross section)	0.14 to 0.34 mm ² /AWG26 to 22

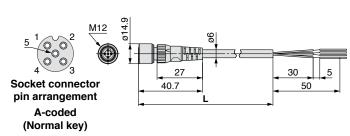
The table above shows the specifications for the applicable cable.
 Adaptation for the connector may vary on account of the conductor construction of the electric wire.



• Power Supply Cable with M12 Connector (A-coded)

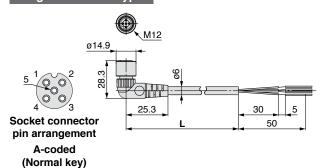


Straight connector type

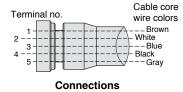


Item	Specifications
Cable O.D.	ø6 mm
Nominal cross section	0.3 mm ² /AWG22
Wire diameter (Including insulator)	1.5 mm
Min. bending radius	40 mm (Fixed)

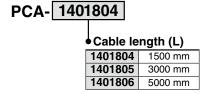
Angle connector type

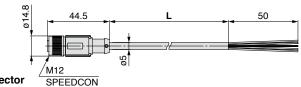


Item	Specifications
Cable O.D.	ø6 mm
Nominal cross section	0.3 mm ² /AWG22
Wire diameter (Including insulator)	1.5 mm
Min. bending radius	40 mm (Fixed)



SPEEDCON

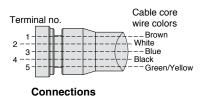




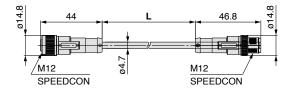
Socket connector pin arrangement

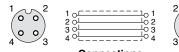
A-coded (Normal key)

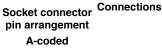
Item	Specifications
Cable O.D.	ø5 mm
Nominal cross section	0.3 mm ² /AWG22
Wire diameter (Including insulator)	1.27 mm
Min. bending radius	21.7 mm (Fixed)



PCA- 1557769 **♦** Cable length (L) 1557769 3000 mm







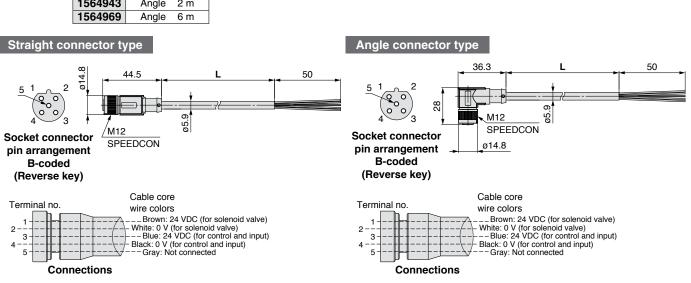
Plug connector pin arrangement A-coded (Normal key)

(Normal key)



• Power Supply Cable with M12 Connector (B-coded)

SPEEDCON PCA- 1564927 Socket specification, Cable length (L) 1564927 Straight 2 m 1564930 Straight 6 m 1564943 Angle 2 m 1564969 Angle 6 m



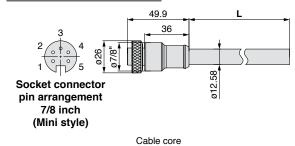
10 Power Supply Cable with 7/8 Inch Connector/Power Supply Connector

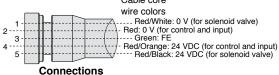
PCA- 1558810

♦ Specifications

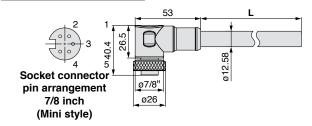
Symbol	Cable length (L)	Connector specification
1558810	2000	Straight
1558823	6000	Straight
1558836	2000	Right angle
1558849	6000	Right angle

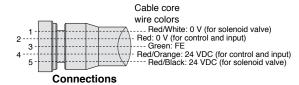
Straight connector type





Angle connector type





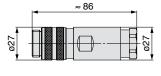
Field wireable connector

PCA- 1578078

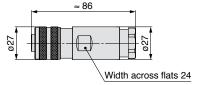
Specifications

	Connector specification
1578078	Plug
1578081	Socket











Plug connector pin arrangement 7/8 inch (Mini style)



Socket connector pin arrangement 7/8 inch (Mini style)

Terminal no.	Wire guide colors
1	Red/White
2	Red
3	Green
4	Red/Orange
5	Red/Black

Applicable Cable

Applicable Cable	
Cable O.D.	12.0 to 14.0 mm
Wire gauge (Stranded wire cross section)	0.34 to 1.5 mm ² /AWG22 to 16

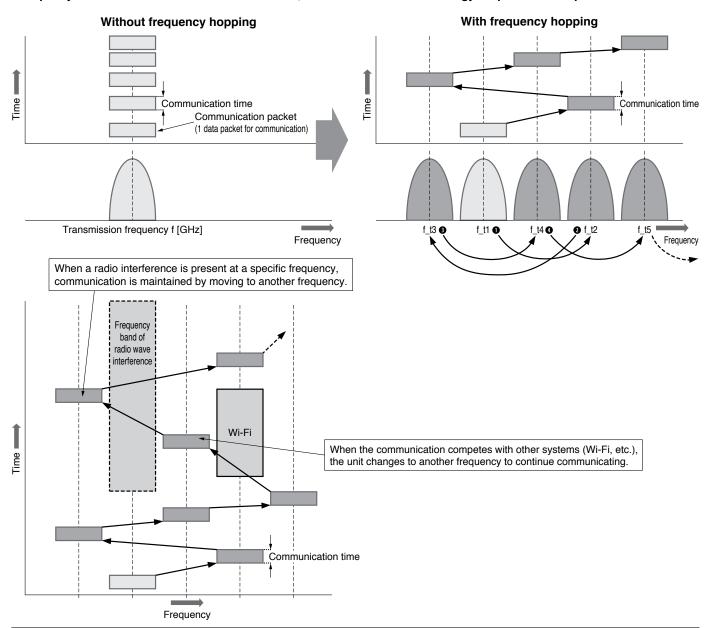
- * The table above shows the specifications for the applicable cable. Adaptation for the connector may vary on account of the conductor construction of the electric wire.
 - For further information on cables and connectors, refer to the M8/M12 connector PCA series in the Web Catalog.



EX600-W Series Technical Data

Frequency Hopping (FHSS: Frequency Hopping Spread Spectrum)

A communication technology that uses spread spectrum transmission with frequency hopping to rapidly switch the frequency. Because the frequency rapidly changes all the time, this communication method is resistant to radio wave interference due to reflections or noise from other wireless equipment, while ensuring a high level of data security. Multiple systems can be installed in the same area, and it is a suitable technology for point-to-multipoint communication.



<Important>

- The product is certified as a wireless equipment in accordance with the Radio Act and the certificate of Technical Standard Conformity has been
 obtained. Customers do not need to apply for a license to use this equipment.
 Be sure to comply with the following precautions.
 - · 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), and the U.S. 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 an accident 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.
- Do not use this product close to any equipment which may cause malfunction due to radio waves from this product.
- · The communication performance is affected by the ambient environment, so please perform the communication testing before use.



Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)*1), and other safety regulations.

Caution: Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

⚠ Warning: Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

⚠ Danger: Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

*1) ISO 4414: Pneumatic fluid power - General rules relating to systems. ISO 4413: Hydraulic fluid power – General rules relating to systems.

IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)

ISO 10218-1: Manipulating industrial robots - Safety.

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalog information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained

- 3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.
 - 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- 4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.
 - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog
 - 3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
 - Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

⚠ Caution

1. The product is provided for use in manufacturing industries.

The product herein described is basically provided for peaceful use in manufacturing industries.

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary. If anything is unclear, contact your nearest sales branch.

Limited warranty and Disclaimer/ **Compliance Requirements**

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".

Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first.*2) Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.
 - *2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

⚠ Caution

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country. Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

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

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