Wireless System







Noise resistance

Uses the 2.4 GHz ISM frequency band Frequency hopping: Every 2 ms (Fastest)

Communication cables not required

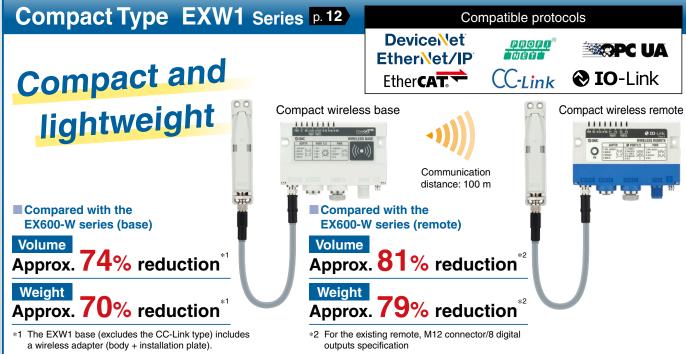
Reduced wiring work, space, and cost Minimized disconnection risk

Communication distance/speed, Response time*1

	Communication distance	Communication speed	Response time
Compact Type	100 m	1 Mbps	2 ms
EXW1	100 m	250 kbps	5 ms
Modular Type EX600-W	10 m	250 kbps	5 ms

^{*1} For the EXW1 construction, it depends on the operating environment.

New Analog input has been added to the compact type EXW1 Series.





For countries/regions in which wireless is supported

This product cannot be used in countries/regions where wireless is not supported. Refer to page 54 for details on countries/regions in which the product can be used.



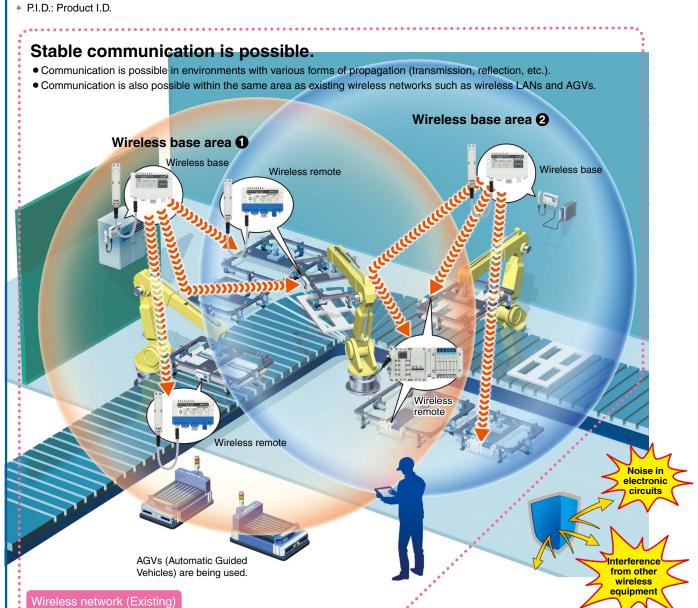


Provides communication stability in FA environments



Modular **EX600-W**

Even if multiple wireless bases are in use in the same communication area, each wireless base is able to effectively
communicate with the remotes they are paired with. Each wireless base is able to identify its wireless remotes by their P.I.D.



Antenna support



Communication is possible with a wireless adapter or external antenna even when the wireless base/remote is installed in a metal-shielded location such as in a control panel/box.

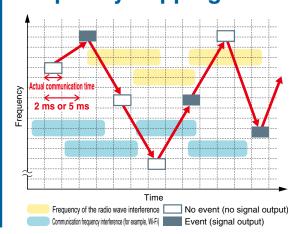




Frequency hopping/Event communication system



Modular **EX600-W**



Frequency hopping

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



Event communication system *1 For the EXW1 only

Wireless communication is performed only when there is a variation in the information, thereby suppressing the frequency of radio wave output in wireless communication and reducing interference with other wireless devices.

Vireless communication is performed only when there

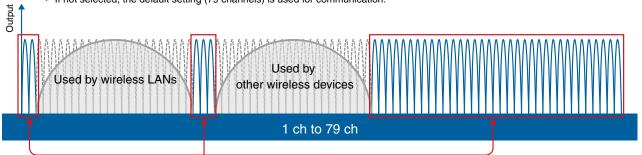
Compact **EXW1**

F.C.S. (Frequency channel select) function supported

This is a function that allows for the selection of the frequency channel to be hopped to via frequency hopping. When the frequency used by wireless LANs, AGVs, or other wireless devices is known, selecting a different frequency channel will allow for hopping only to the selected frequency channel, thereby reducing communication collisions with other wireless devices and stabilizing communication. * The number of selectable frequency channels varies depending on the country of use.

S	Symbol	Number of selectable frequency channels	Applicable countries
	Е	Min. 5/Max. 79 channels	Radio Law certified countries other than the U.S., Canada, South Korea, Brazil, Taiwan, Argentina, and Mexico
	N	Min. 15/Max. 79 channels	Radio Law certified countries including the U.S., Canada, South Korea, Brazil, Taiwan, Argentina, and Mexico

* If not selected, the default setting (79 channels) is used for communication.



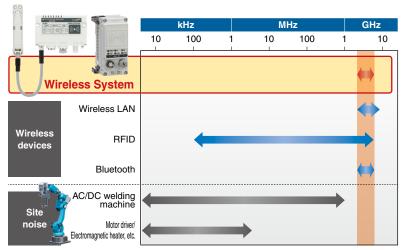
Hopping/communicating with the frequency channel within the selected red frame

Frequency band used

Compact **EXW1**

Modular EX600-W

Uses the 2.4 GHz ISM frequency band



 ISM (Industrial, Scientific, and Medical) radio bands: Frequency bands allocated for industrial, scientific, and medical applications

■Trademark

Wi-Fi® is a trademark or registered trademark of Wi-Fi Alliance.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc.

High security using encryption

EXW1

Modular
EX600-W

Unauthorized access from outside is prevented by using data encryption.



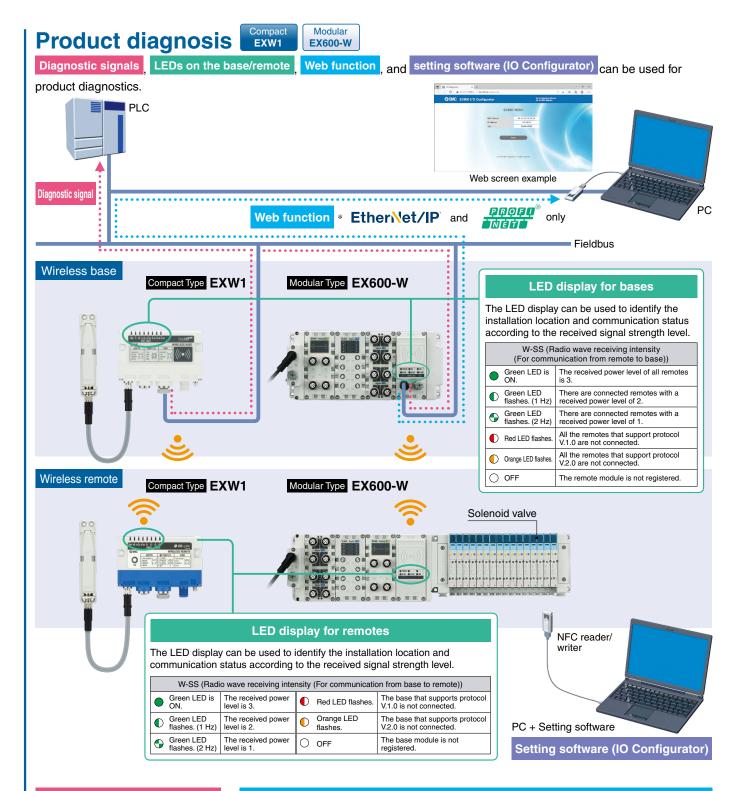
Remote high-speed connection

Compact EXW1

To start of communication: Min. **250 ms*** Depends on the communication environment







Diagnostic signal

The connection status of the wireless system can be judged by the PLC during operation by the diagnostic signal. <Diagnostic signal output conditions>

- When an error occurs in the wireless
- system (base or remote)
- When communication from the remote cannot be received

Web function (When the base and PC are connected)

Via the EX600-W web screen, you can change the product/wireless communication settings and check the communication status. Log data of the number of wireless communication retries and the received field strength can be generated and then downloaded as a CSV file.

Via the EXW1-BEN/BPN web screen, you can change the wireless protocol, OPC UA, and pairing settings. Wireless/diagnostic logs and wireless system configuration information can be checked, and the log data can be generated and then downloaded as a CSV file.

* Refer to the logging function on page 4.

EtherNet/IP PROFO Web screen example The log files showing the number of retries or the received radio wave intensity can be downloaded in the form of a CSV file.





Product diagnosis



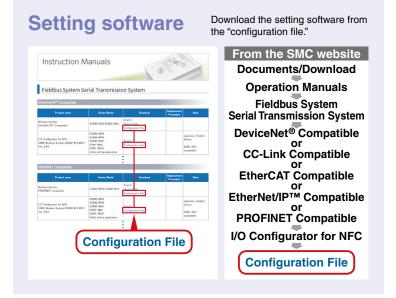


Setting software (IO Configurator)

The NFC reader/writer can be used with the setting software to perform various checks and setting without contact. (NFC: Near Field Communication)

- Base communication configuration
- Setting of the I/O points for the system, base, and remote
- Pairing of the base and remote
- I/O monitoring
- Monitoring of diagnostic data
- * Refer to the logging function.





Logging function

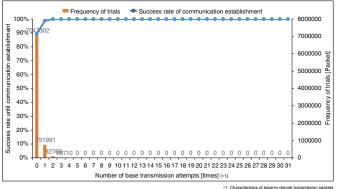




The following information is saved in the internal memory of the product. It can be downloaded and visualized from the web function or the setting software (IO Configurator).

Number of retries

The number of retries (communication attempts) can be checked.

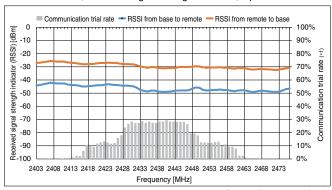


Graph 1. Communication response characteristics

Received signal strength indicator

The communication trial rate and received signal strength indicator (RSSI) can be checked for every frequency channel.

Number of retries, Received signal strength indicator, Operation status

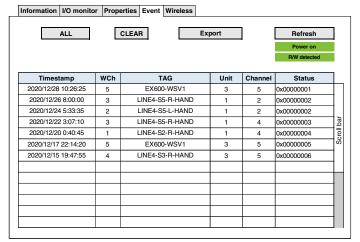


Graph 2. Received signal strength indicator and communication trial rate characteristics with respect to frequency

Operation status

Error details, time information (timestamp), and remote numbers can be checked.

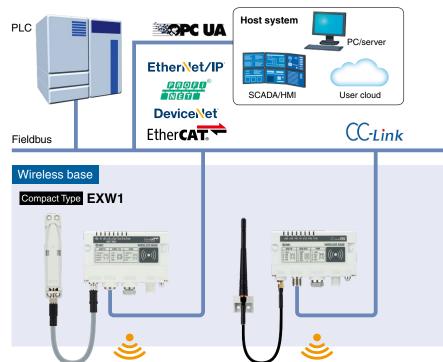
* Up to 30 pieces can be displayed.



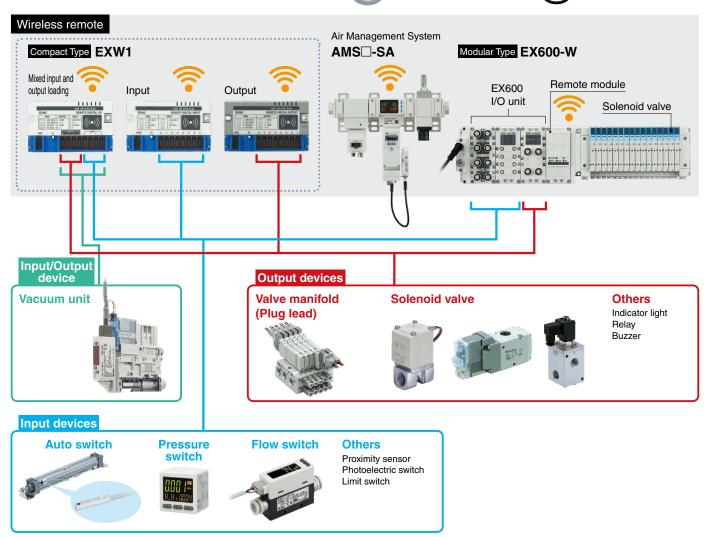
For wireless digital, analog, and IO-Link component connection

For wireless air management system connection*1

*1 For the compact type EXW1 base only



System Examples



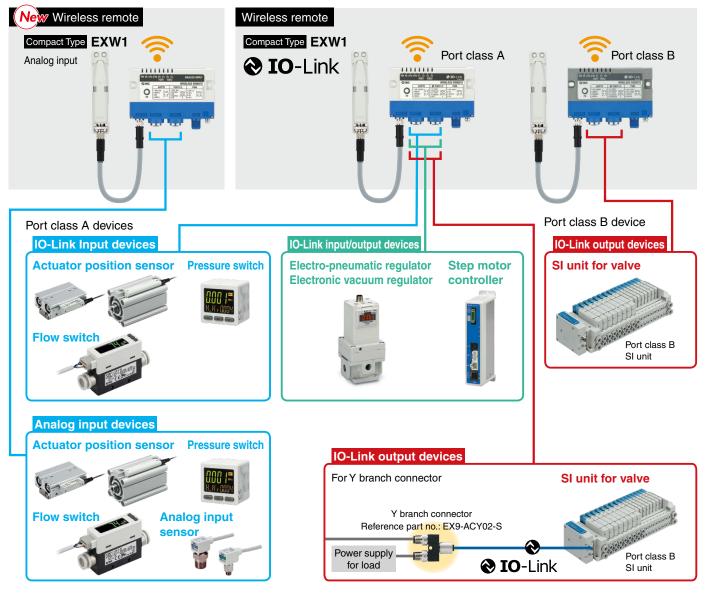
EX600

I/O unit

EtherNet/IP <u>PRQFO</u>° Modular Type **EX600-W** Base module

The compact type EXW1 and modular type EX600-W can be used in combination.*1

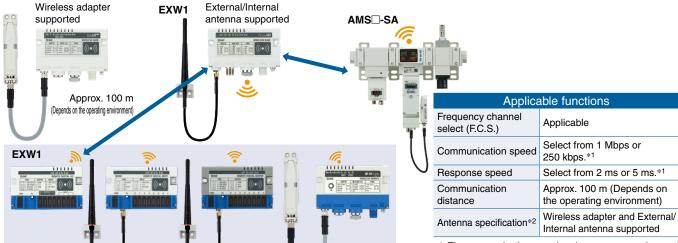
*1 When used in combination, the communication speed and response time are limited to the specifications of the EX600-W. (See the sample system configuration.)



System Configuration Examples

Compact Type Configuration example when using the EXW1 series base 1

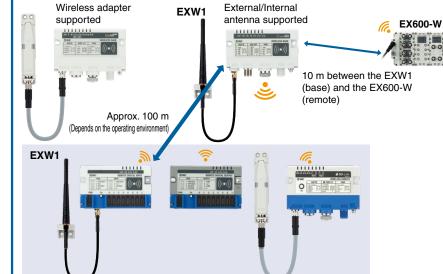
(When the remote configuration is for the EXW1 series or air management hub only)



- *1 The communication speed and response speed cannot be selected for the Air Management Hub. They are fixed at 1 Mbps and 2 ms, respectively.
- *2 Refer to the "How to Order" section.

■ Compact Type Configuration example when using the EXW1 series base ②

(When the remote configuration is for the EX600-W and the EXW1 series)

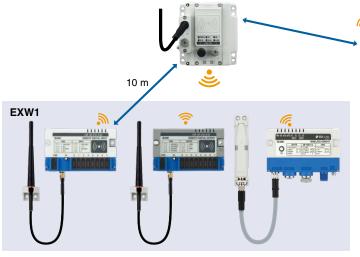


Applied	able functions	
Applicable functions		
Frequency channel select (F.C.S.)	Not applicable	
Communication speed	250 kbps	
Response speed	5 ms	
Communication distance	Approx. 100 m between the EXW1 base and remote (Depends on the operating environment) 10 m*1 between the EXW1 (base) and the EX600-W (remote)	
Antenna specification*2	Wireless adapter and External/ Internal antenna supported	
*1 The communication distance varies depending on the		

- 1 The communication distance varies depending on the base/remote combination.
- *2 Refer to the "How to Order" section.

Modular Type Configuration example when using the EX600-W series base

EX600-W



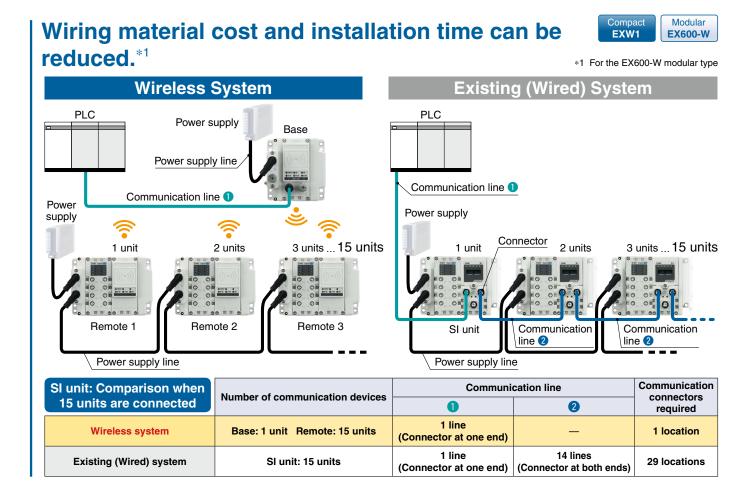
Applicable functions		
Frequency channel select (F.C.S.)	Not applicable	
Communication speed	250 kbps	
Response speed	5 ms	
Communication distance	10 m	
Antenna specification*1	External/Internal antenna supported	
Occupied byte count*2	16 bytes each for input/output	
The energifications are the same as those of the EVCOO M		

The specifications are the same as those of the EX600-W series

- *1 Refer to the "How to Order" section.
- *2 IO-Link master only



EX600-W

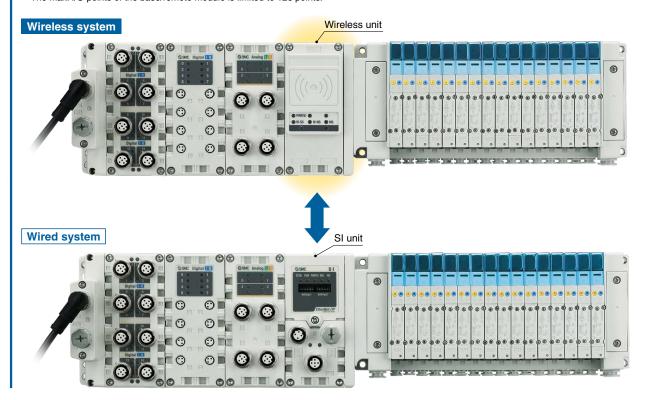


Interchangeability maintained

Connection interchangeability between EX600 series SI units is maintained.

The replacement of wireless and wired systems is possible.

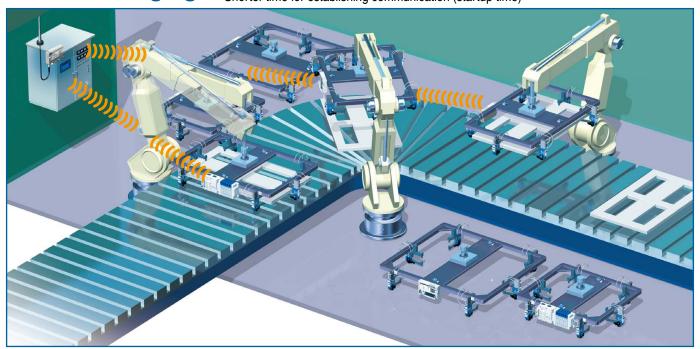
* The max. I/O points of the base/remote module is limited to 128 points.



Application Examples

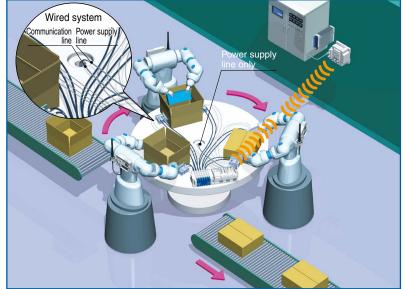
For tool changing

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



For rotary tables

- Minimized disconnection risk
- Smaller diameter communication cable/tubing



For the blocking of radio waves

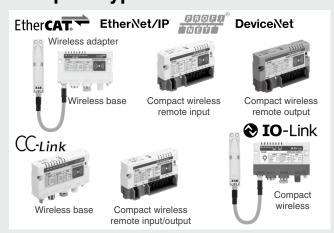
Communication is possible by placing the external antenna outside the control panel when the unit is installed in a metal box, etc.



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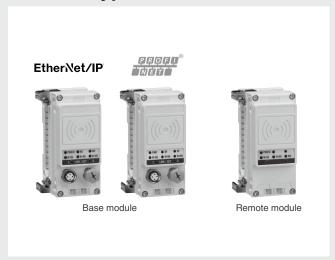


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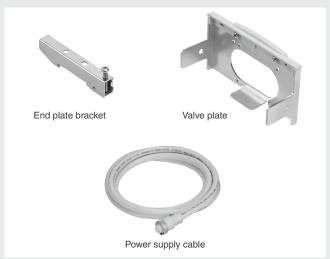
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Modular Type **EX600-W** Series



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Wireless System Compact Type EXVII Series



How to Order

Compact Wireless Base

EtherNet/IP

PROF!

DeviceNet



EXW1-BECAC

Rase •

Communication protocol

Symbol	Protocol
EC	EtherCAT®
EN	EtherNet/IP™
PN	PROFINET
DN	DerviceNet [®]

Connector

Symbol	Connector interface
Α	M12

*1 A wireless system base used in combination with a wireless adapter When using this product, order the wireless adapter and wireless adapter cable separately.

OPC UA Compliant

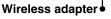
Symbol	OPC UA Compliant
Nil	×
1*2	0

*2 Select "1" for communication protocol types "EN" and "PN."



Wireless Adapter

EXW1 – **A1** 1 **N**



Applicable model

Symbol	Applicable model	
1	Base EtherCAT®: EXW1-BECAC EtherNet/IP™: EXW1-BENAC1 PROFINET: EXW1-BPNAC1 DeviceNet®: EXW1-BDNAC Air Management Hub (EXA1-□) Remote (IO-Link) (EXW1-RL□) Remote (Analog input) (EXW1-RAX□)	

* A dedicated cable is required to connect the wireless base/remote and wireless adapter. When using this product, order the wireless adapter cable separately. An installation plate (EXW1-AB4) is included as an accessory.

Frequency channel selection

 Antenna specification for wireless communication*1

Antenna specification

Wireless adapter

Symbol	Number of selectable frequency channels	Applicable countries
Е	Min. 5/Max. 79 channels	Radio Law certified countries other than the U.S., Canada, South Korea, Brazil, Taiwan, Argentina, and Mexico
N	Min. 15/Max. 79 channels	Radio Law certified countries including the U.S., Canada, South Korea, Brazil, Taiwan, Argentina, and Mexico

- * Select this according to the country of use.
- Applicable countries differ depending on the part number. Before purchasing, refer to the "Country-specific Radio Law Compliance Table" on page 54.

Wireless Adapter Cable

EXW1-AC001-SAPU

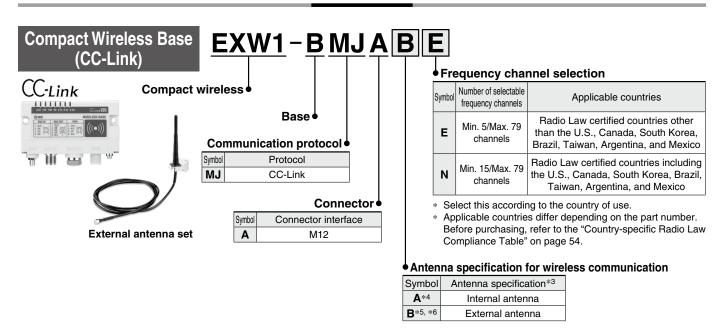
Shane & cable length

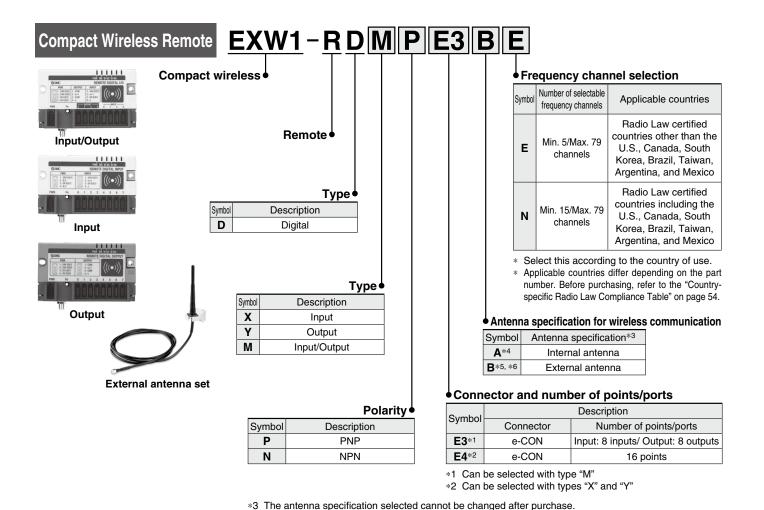
●Shape & cable length				
Symbol	Mounting image	Cable length	Secondary battery compatible	
AC001-SAPU		100 mm	Yes	
AC1-X1		300 mm	_	
AC030-SSPS	U	2950 mm	Yes	

* This cable is required to connect the wireless base/remote and wireless adapter.



How to Order





*4 The external antenna set cannot be used for the internal antenna specification. *5 An external antenna set is included with the external antenna specification.

*6 It is not possible to use the external antenna set without connecting it with the external antenna

A 13

specification.

How to Order





OIO-Link



Symbol Description
L IO-Link master

Symbol Description

A Port class A

B Port class B

Remote •

Antenna specification for wireless communication

Symbol	Connector interface
С	Wireless adapter

Connector and Number of IO-Link ports

Symbol Connector/Number of IO-Link p	
A8*1	M12/4-port*2
A7 *3	M12/2-port*4

- *1 Can be selected with type "A"
- *2 When using the IO-Link 4-port type, 2 Y branch connectors (EXW1-ACY1) are required.
- *3 Can be selected with type "B"
- *4 The Y branch connector (EXW1-ACY1) cannot be used with this option.

◆Polarity

Symbol	Description
P	PNP

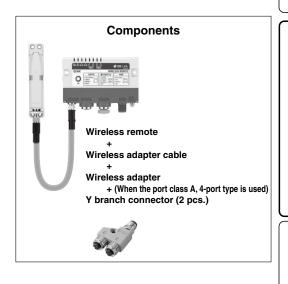
* This wireless remote is to be used in combination with a wireless adapter. Order the wireless adapter and the cable for the wireless adapter separately.

Y branch connector (Option)

When selecting the IO-Link 4-port type for type "A," order the connectors using the part number shown below.

- * When using the 4-port type, 2 Y branch connectors (EXW1-ACY1) are required.
- * This cannot be used with type "B.".





NFC Reader/Writer

EXW1-NT1

- * Order a fixing bracket.
- * A USB cable (3 m) is also included.



● Fixing bracket (Option)

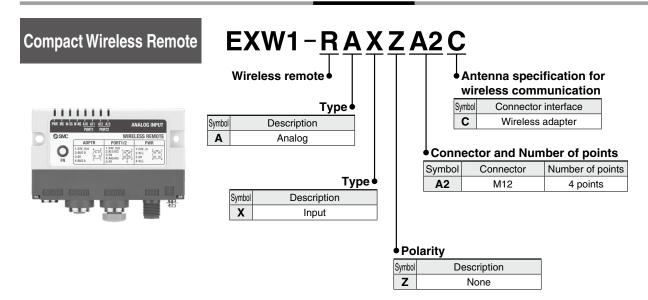
When optional parts are required, order with the part number below.

EXW1-AB 2

Variations

• vaii	Variations		
Cumahal	Decemination	Appearance	
Symbol	Description	Single unit	Product mounting view
2	For the EXW1		nini s

How to Order



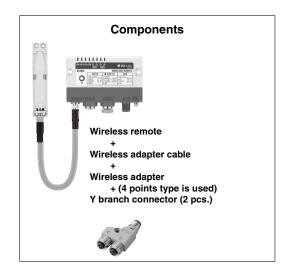
* This wireless remote is to be used in combination with a wireless adapter. Order the wireless adapter and the cable for the wireless adapter separately.



When branching 1 connector to use as 2 input points, order separately using the part number below

Note that when using the Y branch connector (EXW1-ACY2), the FE terminal of the input device connected to the remote cannot be used.







Specifications: Wireless Communication, Wireless Adapter

Wireless Communication Specifications

Item		Specifications	
Protocol		SMC original protocol (SMC encryption)	
	Between compact EXW1 remote	V.2.0 or V.1.0 (Selectable)	
	Between modular EX600-W remote	V.1.0	
Radio wave	type (spread)	Frequency Hopping Spread Spectrum (FHSS)	
Frequency		2.4 GHz (2403 to 2481 MHz)	
Number of f	requency channels	5 to 79 ch or 15 to 79 ch (Refer to page 2.)	
Frequency of	channel selection	Applicable (Refer to page 2.)	
Channel bar	ndwidth	1.0 MHz	
Communication	V.2.0	1 Mbps	
speed	V.1.0	250 kbps	
Communication distance		Approx. 100 m (Depends on the operating environment)	
Countries in which Radio Law certified		Refer to page 54 for the latest information regarding in which countries the product is certified.	
Number of registered wireless remotes*1		Max. 127 units (15/31/63/127 units)	

^{*1} The number of registered units varies depending on the product.

The recommended number of simultaneously operating units is 1 to 15 units.

Wireless Adapter Specifications (EXW1-A11□) Electrical Specifications

Item	Specifications
US1 (for control) power supply voltage range	24 VDC ±10%
Internal current consumption	50 mA or less

Item	Specifications
Enclosure	IP67
Vibration resistance	EN 61131-2 compliant 5 ≤ f < 8.4 Hz 3.5 mm 8.4 ≤ f < 150 Hz 9.8 m/s²
Impact resistance	EN 61131-2 compliant, 147 m/s ² , 11 ms
Standards	CE/UKCA marking, UL (CSA)*1
Weight	40 g (Body), 20 g (Installation plate)

^{*1} When connect to the air management system and EXW1-BECAC, EXW1-BENAC1, EXW1-BPNAC1, UL (CSA) standards applies.

st Air bubbles may be visible on the exterior of the product, but this does not affect the product's performance.

Wireless System Compact Type EXW1 Series

Specifications: Compact Wireless Base

Compact Wireless Base Specifications Electrical Specifications

Item	Specifications
US1 (for control) power supply voltage range	24 VDC ±10%
Internal current consumption	150 mA or less

EtherCAT Communication Specifications (EXW1-BECAC)

Item	Specifications
Protocol	EtherCAT(Conformance Test Record V.2.3.0)
Communication speed	100 Mbps
Occupation area (Number of inputs/outputs)	Max. 11784 inputs/11784 outputs (1473 bytes/1473 bytes)
Configuration file	ESI (XML file)*1

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

General Specifications

Item	Specifications	
Enclosure	IP67	
Vibration resistance	EN 61131-2 compliant 5 < f < 8.4 Hz 3.5 mm	
Tibration recipiants	$8.4 \le f < 150 \text{ Hz } 9.8 \text{ m/s}^2$	
Impact resistance	EN 61131-2 compliant, 147 m/s ² , 11 ms	
Standards	CE/UKCA marking, UL (CSA)	
Weight	150 g	

EtherNet/IP Communication Specifications (EXW1-BENAC1)

Line Neth Communication Specifications (LXW 1-DENACT)		
Item	Specifications	
Protocol	EtherNet/IP™ (Conformance version: Composite 19.1)	
Communication cable	Standard Ethernet cable (CAT5 or higher, 100BASE-TX)	
Communication speed	10/100 Mbps	
Communication method	Full duplex/Half duplex	
Configuration file	EDS file	
Occupation area (Number of inputs/outputs)	Max. 11552 inputs/11552 outputs (1444 bytes)	
IP address setting range	Manual, Through DHCP server: Optional address	
	Vendor ID: 7 (SMC Corporation)	
Device information	Device type: 12 (Communication Adapter)	
	Product code: 266	
QuickConnect™ function	Supported	
Web server	Supported	
OPC UA	Supported	

Item	Specifications	
Enclosure	IP67	
Ambient temperature	Operating: -10 to 50°C Storage/Shipping: -20 to 60°C	
Ambient humidity	35 to 85%RH (No condensation)	
Vibration resistance	EN61131-2 compliant $5 \le f < 8.4 \text{ Hz } 3.5 \text{ mm}$ $8.4 \le f < 150 \text{ Hz } 9.8 \text{ m/s}^2$	
Impact resistance	EN61131-2 compliant, 147 m/s ² , 11 ms	
Standards	CE/UKCA marking, UL (CSA)	
Weight	160 g	-



EXW1 Series

Specifications: Compact Wireless Base

Compact Wireless Base Specifications

PROFINET Communication Specifications (EXW1-BPNAC1)

Item	Specifications
Protocol	PROFINET IO (Conformance Class B)
Communication speed	100 Mbps
Configuration file	GSDML file
Occupation area (Number of inputs/outputs)	Max. 10464 inputs/10464 outputs (1308 bytes)
FSU (Fast start up)	Supported
MRP (Media Redundancy Protocol)	Supported
System redundancy S.2	Supported
Web server	Supported
OPC UA	Supported

General Specifications

Item	Specifications
Enclosure	IP67
Ambient temperature	Operating: -10 to 50 °C Storage/Shipping: -20 to 60 °C
Ambient humidity	35 to 85%RH (No condensation)
Vibration resistance	EN 61131-2 compliant $5 \le f < 8.4 \text{ Hz } 3.5 \text{ mm}$ $8.4 \le f < 150 \text{ Hz } 9.8 \text{ m/s}^2$
Impact resistance	EN 61131-2 compliant, 147 m/s ² ,11 ms
Standards	CE/UKCA marking, UL (CSA)
Weight	160 g

DeviceNet Communication Specifications (EXW1-BDNAC)

Item	Specifications
	DeviceNet®
Protocol	Volume 1 (Edition 2.1)
	Volume 3 (Edition 1.1)
Device type	Communication adapter
Communication speed	125/250/500 kbps
Configuration file	EDS file
Occupation area (Number of inputs/outputs)	Max. 4096 inputs/4096 outputs (512 bytes)
	Duplicate MAC ID Check Message
Applicable messages	Group 2 Only Unconnected Explicit Message
	Explicit Message (Group 2)
	Poll I/O Message (Predefined M/S Connection set)

Electrical Specifications

Item	Specifications
V+ (US1) power supply voltage range	DeviceNet® specification compliant (11 to 25 VDC)
Internal current consumption	100 mA or less

denotal operations	
Item	Specifications
Enclosure	IP67
A male i a male de mano a made u ma	Operating: -10 to 50°C
Ambient temperature	Storage/Shipping: -20 to 60°C
Ambient humidity	35 to 85%RH (No condensation)
	EN 61131-2 compliant
Vibration resistance	5 ≤ f < 8.4 Hz 3.5 mm
	$8.4 \le f < 150 \text{ Hz } 9.8 \text{ m/s}^2$
Impact resistance	EN 61131-2 compliant, 147 m/s², 11 ms
Standards	CE/UKCA marking
Weight	150 g





Specifications: Compact Wireless Base

Compact Wireless Base Specifications

CC-Link Communication Specifications (EXW1-BMJA□)

Item	Specifications
Protocol	CC-Link (Ver. 1.10, Ver. 2.00)
Station type	Remote device station
Device type	Wireless equipment (Code 0x4B)
Station number	1 to 64
0	156/625 kbps
Communication speed	2.5/5/10 Mbps
Configuration file	CSP+ file*1
Occupation area (Number of inputs/outputs)	Max. (896 inputs/896 outputs)
Max. number of occupied stations	4 stations
	Cyclic transmission
Supported functions	Extended cyclic transmission (Only when Ver. 2.00 is specified)
	Longer cable between stations

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

Electrical Specifications

Item	Specifications
US1 (for control) power supply voltage range	24 VDC ±10%
Internal current consumption	100 mA or less

deficial opecifications	
Item	Specifications
Enclosure	IP67
Ambient temperature	Operating: -10 to 50°C
Ambient temperature	Storage/Shipping: -20 to 60°C
Ambient humidity	35 to 85%RH (No condensation)
	EN 61131-2 compliant
Vibration resistance	5 ≤ f < 8.4 Hz 3.5 mm
	8.4 ≤ f < 150 Hz 9.8 m/s ²
Impact resistance	EN 61131-2 compliant, 147 m/s ² , 11 ms
Standards	CE/UKCA marking
Weight	150 g (Body), 100 g (External antenna set)

Specifications: Compact Wireless Remote (EXW1-RD□)

	Item	Specifications
Protocol		SMC original protocol (SMC encryption)
	Between compact EXW1 bases	V.2.0 or V.1.0 (Selectable)
	Between modular EX600-W bases	V.1.0
Radio wave	type (spread)	Frequency Hopping Spread Spectrum (FHSS)
Frequency		2.4 GHz (2403 to 2481 MHz)
Number of f	requency channels	5 to 79 ch or 15 to 79 ch (Refer to page 2.)
Frequency of	hannel selection	Applicable (Refer to page 2.)
Channel bar	ndwidth	1.0 MHz
Communication	V.2.0	1 Mbps
speed	V.1.0	250 kbps
Communica	tion distance	Approx. 100 m (Depends on the operating environment)
Countries in v	vhich Radio Law certified	Refer to page 54 for the latest information regarding in which countries the product is certified.

Electrical Specifications (Input/Output Type)

ltem -		Specifications		
		EXW1-RDMPE3□□	EXW1-RDMNE3□□	
US1 (for control/input) power supply voltage range		24 VDC ±10%		
US2 (for output) power supply voltage range		24 VDC	C ±10%	
Internal current consumption		100 mA	or less	
Isolation		Yes (between t	JS1 and US2)	
Number of points		8 points (2 poir	nts/connector)	
	Туре	PNP (-COM)	NPN (+COM)	
	Max. sensor supply current	0.3 A/connector, 1 A/unit		
Input	ON current	Typ. 5 mA		
iliput	OFF current	2 mA or less		
	ON voltage	11 V or more		
	OFF voltage	5 V or less		
	Over current protection/detection function	Applicable Applicable		
	Number of points	8 points (2 points/connector)		
0	Туре	PNP (-COM)	NPN (+COM)	
Output	Max. output current	0.3 A/point, 2 A/unit		
	Over current protection/detection function	Applicable		

Electrical Specifications (Input Type)

	Item	Specifications		
	item	EXW1-RDXPE4□□	EXW1-RDXNE4□□	
US1 (for control/input) power supply voltage range		24 VD0	C ±10%	
Internal current consumption		100 mA	A or less	
	Number of points	16 points (2 points/connector)		
	Туре	PNP (-COM)	NPN (+COM)	
	Max. sensor supply current	0.3 A/connector, 2 A/unit		
Input	ON current	Typ. 5 mA		
iliput	OFF current	2 mA or less		
	ON voltage	11 V or more		
	OFF voltage	5 V or less		
	Over current protection/detection function	Applicable		

Electrical Specifications (Output Type)

la ma		Specifications			
	Item	EXW1-RDYPE4□□	EXW1-RDYNE4□□		
US1 (for control/input) power supply voltage range		24 VDC ±10%			
US2 (for output) power supply voltage range					
Internal current consumption		100 mA or less			
Isolation		Yes (between US1 and US2)			
Number of points		16 points (2 points/connector)			
Output	Туре	PNP (-COM)	NPN (+COM)		
	Max. output current	0.3 A/point, 2 A/unit			
	Over current protection/detection function	Applicable			

General Specifications (Common)

Item	Specifications	
Connector type	e-CON (4-pin, Socket)	
Enclosure	IP20	
Ambient temperature	Operating: -10 to 50°C	
Ambient temperature	Storage/Shipping: -20 to 60°C	
Ambient humidity 35 to 85%RH (No condensation)		
Standards	CE/UKCA marking	
	EN 61131-2 compliant	
Vibration resistance	5 ≤ f < 8.4 Hz 3.5 mm	
	8.4 ≤ f < 150 Hz 9.8 m/s ²	
Impact resistance	EN 61131-2 compliant, 147 m/s ² , 11 ms	
Weight	130 g (Body), 100 g (External antenna set)	

Specifications: Compact Wireless Remote (EXW1-RL□) IO-Link

Communication Specifications (Common)

	Item	Specifications	
Protocol		SMC original protocol (SMC encryption)	
	Between compact EXW1 bases	V.2.0 or V.1.0 (Selectable)	
	Between modular EX600-W bases	V.1.0	
Radio wave type (spread)		Frequency Hopping Spread Spectrum (FHSS)	
Frequency		2.4 GHz (2403 to 2481 MHz)	
Number of frequency channels		5 to 79 ch or 15 to 79 ch (Refer to page 2.)	
Frequency channel selection		Applicable (Refer to page 2.)	
Channel ba	ndwidth	1.0 MHz	
Communication	V.2.0	1 Mbps	
speed	V.1.0	250 kbps	
Communication distance		Approx. 100 m (Depends on the operating environment)	
Countries in which Radio Law certified		Refer to page 54 for the latest information regarding in which countries the product is certified.	

IO-Link Specifications

Item Specifications		cations	
Model EXW1-RLAPA8C EXW1-RLBPA		EXW1-RLBPA7C	
IO-Link port class	Class A Class B		
COM1 (4.8 kbps) COM2 (38.4 kbps) COM3 (230.4 kbps) COM3 (230.4 kbps) Changes automatically according to the connected device		8.4 kbps) 30.4 kbps)	
IO-Link version	Ver.1.1		
Number of IO-Link ports	Max. 4 (32 bytes/IO-Link port) Max. 2 (32 bytes/IO-Link port)		

Electrical Specifications

<u>.</u>			
Item	Specifications		
Model	EXW1-R	LAPA8C	EXW1-RLBPA7C
US1 power supply voltage range (for control)		24 VD0	C ±10%
US2 power supply voltage range (for driving)	<u>-</u>	_	24 VDC ±10%
Current consumption		100 mA	or less
Device power supply (L+)	0.5 A/Conne	ctor (1 A/Unit)	0.3 A/Connector (0.6 A/Unit)
External power supply (P24)	_		1.6 A/Connector (2 A/Unit)
External power supply (F24)			(Supplied from the power supply for US2)
Input			
Pin no.	2	4	4
Input type	PNP		NP
Protection	Short-circuit protection		
Rated input current	Typ. 2.5 mA Typ. 5.8 mA		Typ. 5.8 mA
ON voltage	13 V or more		r more
OFF voltage		8 V o	r less
Output			
Pin no.	2, 4		4
Output type	PNP		
Max. load current (C/Q line)	0.25 A/1 output (Supplied from the power supply for US1)		
Protection	Short-circuit protection		

General

Item	Specifications
Enclosure	IP67
Ambient temperature	Operating: -10°C to +50°C
Ambient temperature	Storage/Shipping: -20°C to +60°C
Vibration resistance (Conforming 5 ≤ f < 8.4 Hz 3.5 mm	
to EN61131-2)	$8.4 \le f \le 150 \text{ Hz}$ 9.8 m/s^2
Impact (Conforming to EN61131-2)	147 m/s², 11 ms
Mounting	M4, 2 locations
Ambient humidity	35% to 85% RH (No condensation)
Standards	CE/UKCA marking, UL (CSA)
Weight	150 g



Wireless System Compact Type **EXW1** Series

Specifications: Compact Wireless Remote (EXW1-RAX) Analog Input

Electrical Specifications

Item	Specifications		
Input type	Voltage input	Current input	
Power supply voltage range	24 VDC±10%		
Current consumption	50 mA	or less	
Input connector	M12 connector	(5-pin) socket*1	
Number of inputs	4 inputs (2 inputs	uts/Connector)	
Max. sensor supply current	0.5 A/Connector (1 A/Unit)		
Protection	Short-circuit protection		
Input signal range	0 to 10 V, 1 to 5 V, 0 to 5 V	0 to 20 mA, 4 to 20 mA	
Resolution	16 bits		
Max. rated input signal	+15 V +40 mA		
Input impedance	220 kΩ 240 Ω		
Linearity (25°C)	±0.05% F.S. or less		
Repeatability (25°C)	±0.15% F.S. or less		
Accuracy (25°C)	±0.5% F.S. or less ±0.6% F.S. or less		

^{*1} An M12 connector (4-pin) can be used as well.

General Specifications		
Item	Specifications	
Enclosure IP67*2		
Ambient temperature (Operating temperature)	−10 to +55°C	
Ambient temperature (Storage temperature)	−20 to +60°C	
Ambient humidity	35 to 85%RH (No condensation)	
Withstand voltage	1000 VAC 1.0 min. External terminals (including the FE terminal) and enclosure screws	
Insulation resistance 10 M Ω or more 500 VDC External terminals (including the FE terminal) and enclosur		
Vibration resistance Conforms to EN 61131-2 $5 \le f < 8.4 \text{ Hz } 3.5 \text{ mm}$ $8.4 \le f < 150 \text{ Hz } 9.8 \text{ m/s}^2$		
Impact resistance	Conforms to EN 61131-2, 147 m/s ² , 11 ms	
Mounting	Through hole for M4 screw (2 pcs.)	
Standards	CE/UKCA marking, UL/(CSA)	
Weight	150 g (Body)	

^{*2} Be sure to fit a seal cap on any unused connectors.

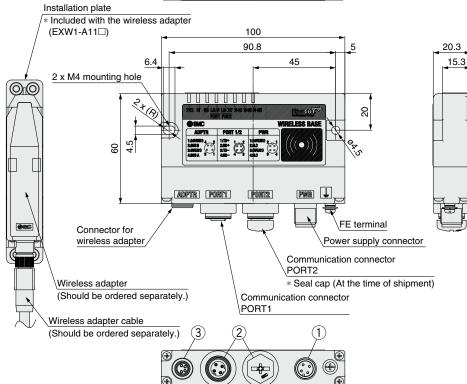


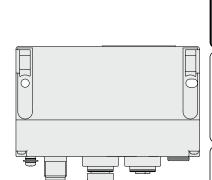
Dimensions/Parts Description

Compact Wireless Base









1) Power supply connector

No.	Signal	M12, 4-pin, plug
INO.		A-coded
1	24 V	2 1
2	N.C.	000
3	0 V	(0 0)
4	N.C.	3 4

2 EtherCAT, PROFINET communication connector

No.	Signal	M12, 4-pin, D-coded, socket
1	TD+	1 2
2	RD-	
3	TD+	• •9)
4	RD-	4 3

② EtherNet/IP communication connector

∠ Luit	SHINEWIL	communication connector
No.	Signal	M12, 4-pin, D-coded, socket
1	TX+	1 2
2	RX-	
3	TX+	• • • • • • •
4	RX-	4 3

3 Connector for wireless adapter

No.	Signal	M8, 4-pin, socket
1	24 V (US1)	4 2
2	Internal BUS B	(00)
3	0 V (US1)	(O O)
4	Internal BUS A	31

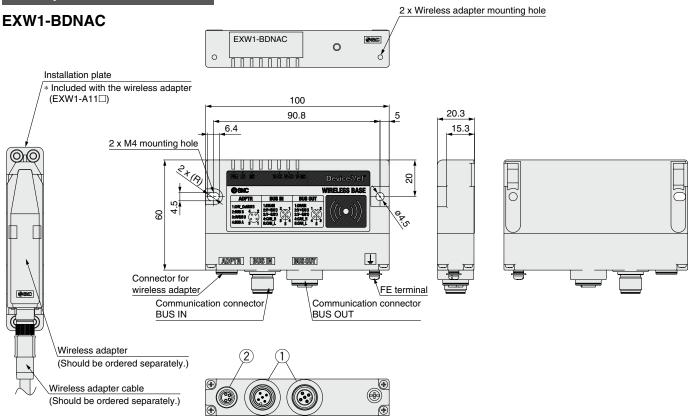
- * The compact wireless base (EtherCAT®, EtherNet/IP™, PROFINET, DeviceNet®) is a wireless system base used in combination with a wireless adapter that has wireless communication capabilities.
- When using this product, it is necessary to order the wireless adapter and wireless adapter cable separately.
- Use the EXW1-NT1 for pairing with the wireless remote.



EXW1 Series

Dimensions/Parts Description

Compact Wireless Base



1) DeviceNet communication connector

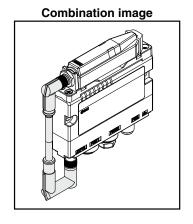
	BUS IN			BUS OUT		
No.	Signal	Description	M12, 5-pin, plug	Signal	Description	M12, 5-pin, socket
			A code			A code
1	DRAIN	Drain	2 1	DRAIN	Drain	1 2
2	V+ (US1)	DeviceNet power supply +	050	V+ (US1)	DeviceNet power supply +	050
3	V- (US1)	DeviceNet power supply -	(0)	V- (US1)	DeviceNet power supply -	050
4	CAN_H	Signal wire H	3 0 0	CAN_H	Signal wire H	4 0 0
5	CAN_L	Signal wire L	3 4	CAN_L	Signal wire L	4 3

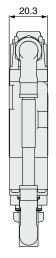
② Connector for wireless adapter

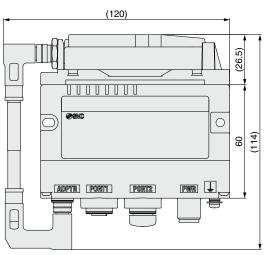
No.	Signal	M8, 4-pin, socket
1	V+_Out (US1)	42
2	Internal BUS B	/ 0 0 \
3	V- (US1)	$ (\circ \circ) $
4	Internal BUS A	31

- * The compact wireless base (EtherCAT®, EtherNet/IP™, PROFINET, DeviceNet®) is a wireless system base used in combination with a wireless adapter that has wireless communication capabilities.
 When using this product, it is necessary to order the wireless adapter and wireless adapter cable separately.
- * Use the EXW1-NT1 for pairing with the wireless remote.

■ Dimensions when the wireless adapter, cable for the wireless adapter (EXW1-AC001-SAPU), and installation plate are combined





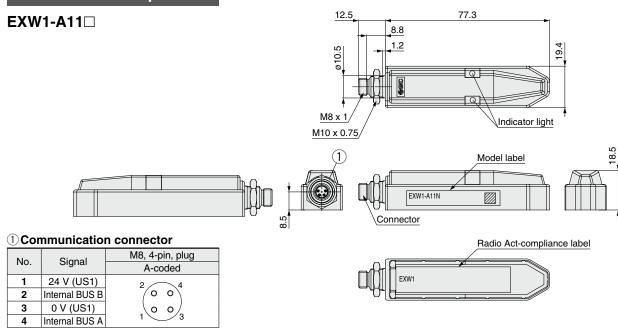




EXW1 Series

Dimensions/Parts Description

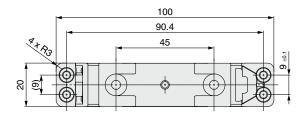
Wireless Adapter

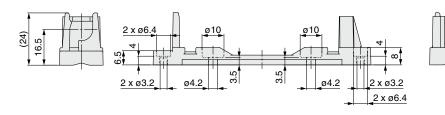


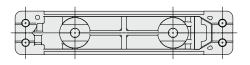
Installation Plate

EXW1-AB4 (Option for wireless adapter)

∗ Included with the EXW1-A11□

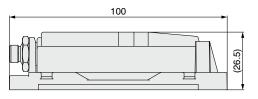






■ Dimensions when the wireless adapter and installation plate are combined

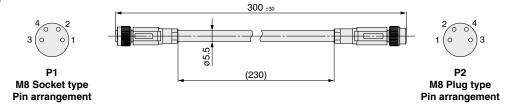




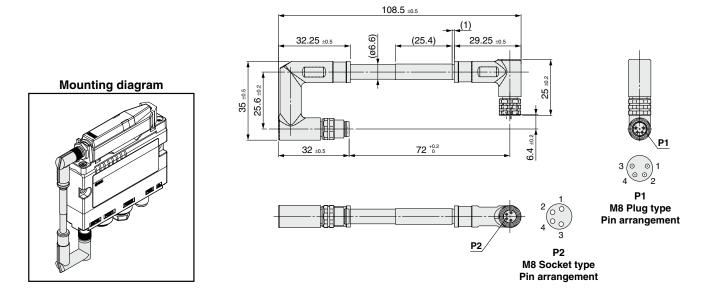
Dimensions/Parts Description

Wireless Adapter Cable

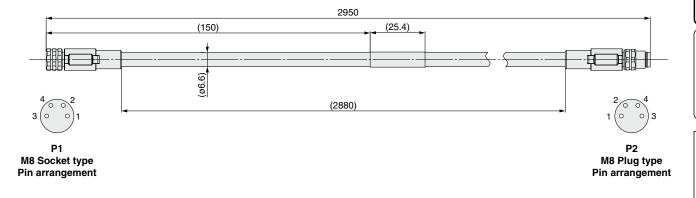
EXW1-AC1-X1



EXW1-AC001-SAPU



EXW1-AC030-SSPS



EXW1 Series

Dimensions/Parts Description Compact Wireless Base Model label EXW1-BMJA□ Internal antenna External antenna External antenna set EXW1-BMJAB□ 100 90.8 ± 0.1 20.3 15.3 6.4 45 Radio Act-compliance label 2 x M4 mounting hole 116.7 ABT PWR FE terminal * The seal cap is attached when shipped. Power supply connector Communication connector BUS OUT 2 x ø4.5 Communication connector BUS IN RF (SMA coaxial connector) Internal circuit [Mounting nut: Width across flats 8 mm (ø10)] 1) Power supply ②BUS IN connector Whip antenna 1 24 V (US1) SLD 1 15 Accessory o NC DB 2 20 Internal RF cable (ø5, 1.5 m) circuit DG 3 ф 3 0 V (US1) 30 Accessory DA 4 o 4 NC CC-Link Bracket BUS connector IN/OUT RF Accessory SLD 1 External antenna set (Included only for antenna specification B) DB 2 Part no.: EXW1-EA1 DG 3 Filter DA 4 NC 5 | 3 BUS OUT * The metal housing part of the RF (SMA coaxial connector) is connected to 0 V (US1).

1 Power supply connector

<u> </u>			
No.	Signal	M12, 4-pin, plug	
INO.		B-coded	
1	24 V (US1)	2 1	
2	N.C.	0 0	
3	0 V (US1)	(0 0)	
4	N.C.	3 4	

23 CC-Link BUS connector

	No.		② BUS IN
		Signal	M12, 4-pin, plug
			A-coded
	1	SLD	2 🕠 1
	2	DB	(0 0)
	3	DG	_(0 0/
	4	DA	3 4

	No.		3 BUS OUT
N		Signal	M12, 5-pin, socket
			A-coded
	1	SLD	
2	2	DB	1 0502
3	3	DG	(050)
4	4	DA	4 0 0 3
	5	N.C.	

Dimensions/Parts Description

Compact Wireless Remote Input/Output

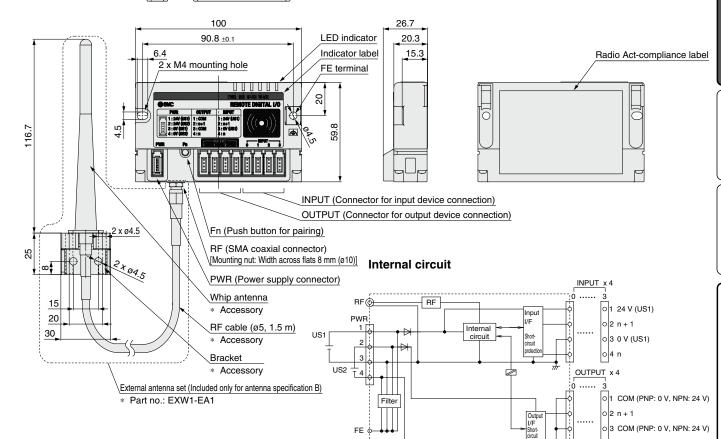




Internal antenna



External antenna set



* The metal housing part of the RF (SMA coaxial connector) is connected to 0 V (US1).

PWR (Power supply connector)

_	Pin no.	Description
	1	24 V (US1)
	2	24 V (US2)
4	3	0 V (US1)
	4	0 V (US2)

INPUT (Connector for input device connection)

	Pin no.	Description
	1	24 V (US1)
	2	n + 1
4	3	0 V (US1)
	4	n

OUTPUT (Connector for output device connection, EXW1-RDMPE3 |)*1

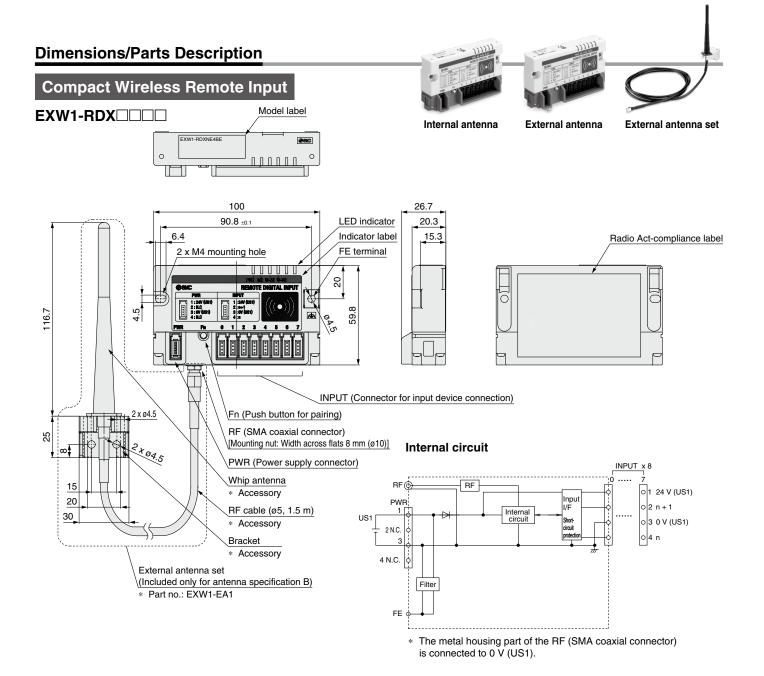
	1 2 3 4	Pin no.	Description
		1	-COM (US2_0 V)
		2	n + 1
		3	-COM (US2_0 V)
		4	n
			•

OUTPUT (Connector for output device connection, EXW1-RDMNE3 | |)*1

	Pin no.	Description
	1	+COM (US2_24 V)
	2	n + 1
4	3	+COM (US2_24 V)
	4	n

^{*1} The specifications of pin numbers 1 and 3 differ depending on the part number system.

EXW1 Series



PWR (Power supply connector)

(i ower ouppry connector				
_	Pin no.	Description		
	1	24 V (US1)		
	2	N.C.		
4	3	0 V (US1)		
	4	N.C.		

INPUT (Connector for input device connection)

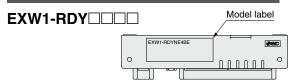
_	Pin no.	Description
	1	24 V (US1)
	2	n + 1
4	3	0 V (US1)
	4	n

COM (PNP: 0 V, NPN: 24 V)

3 COM (PNP: 0 V, NPN: 24 V)

Dimensions/Parts Description

Compact Wireless Remote Output

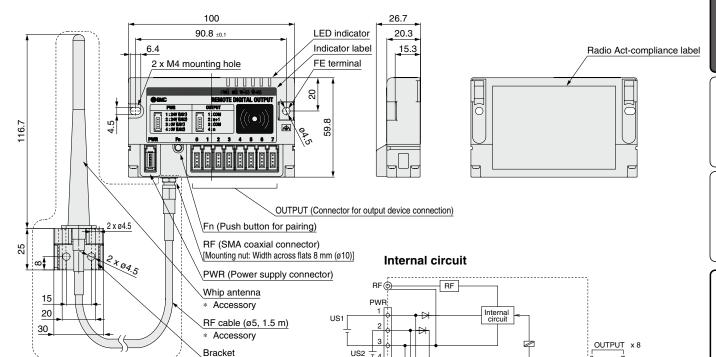




Internal antenna External ante

External antenna Exte

External antenna set



Filte

is connected to 0 V (US1).

* The metal housing part of the RF (SMA coaxial connector)

PWR

(Power supply connector)

	Pin no.	Description
	1	24 V (US1)
	2	24 V (US2)
4	3	0 V (US1)
	4	0 V (US2)

OUTPUT (Connector for output device connection, EXW1-RDYPE4□□)

	Pin no.	Description
	1	-COM (US2_0 V)
	2	n + 1
4	3	-COM (US2_0 V)
	4	n

OUTPUT (Connector for output device connection, EXW1-RDYNE4□□)

* Accessory

(External antenna set (Included only for antenna specification B)

* Part no.: EXW1-EA1

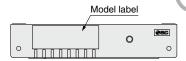
_	Pin no.	Description
	1	+COM (US2_24 V)
	2	n + 1
4	3	+COM (US2_24 V)
	4	n

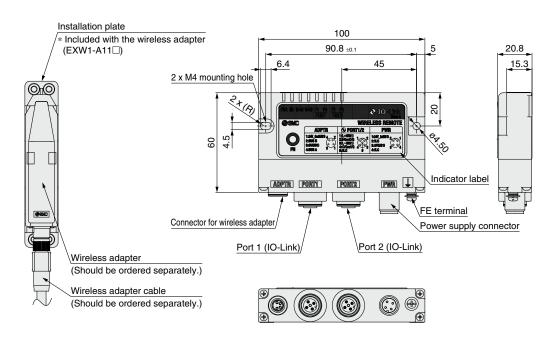
EXW1 Series

Dimensions/Parts Description

Compact Wireless Remote (IO-Link Master)

EXW1-RL□P□C





Connector for Wireless Adapter

Pin no.	Description	M8, 4-pin, socket	
1	24 V (US1)	4 - 2	
2	Internal BUS B	700	
3	0 V (US1)		
4	Internal BUS A	3 💚 1	

Port 1/2: EXW1-RLAPA8C (ClassA)

Pin no.	Description	M12, 5-pin, A coding, socket
1	L+ (US1)*1	
2	I/Q or C/Q*2	1 2 2
3	L- (US1)	(500)
4	C/Q or I/Q*2	4 0 0
5	Unused	

- *1 Do not input power.
- *2 The functions of pins can be changed in the settings.

Port 1/2: EXW1-RLBPA7C (ClassB)

Pin no.	Description	M12, 5-pin, A coding, socket
1	L+ (US1)*1	
2	P24 (US2)*1	1 2
3	L- (US1)	(50)
4	C/Q or I/Q*2	4 0 0
5	N24 (US2)	1 0

- *1 Do not input power.
- *2 The functions of pins can be changed in the settings.

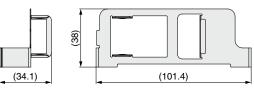
Power supply connector

	· · · · · · · · · · · · · · · · · · ·	
Pin no.	Description	M12, 4-pin, A coding, plug
1	24 V_In (US1)	2 1
2	24 V_In (US2)*1	
3	0 V (US1)	\
4	0 V (US2)*1	3 4

*1 EXW1-RLBPA7C (ClassB) only



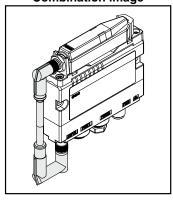
EXW1-AB2 (Option, For EXW1)

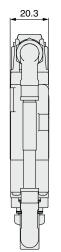


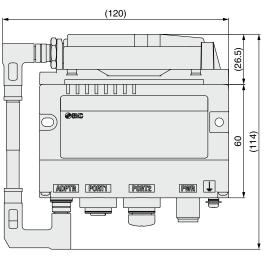


■ Dimensions when the wireless adapter, cable for the wireless adapter (EXW1-AC001-SAPU), and installation plate are combined

Combination image

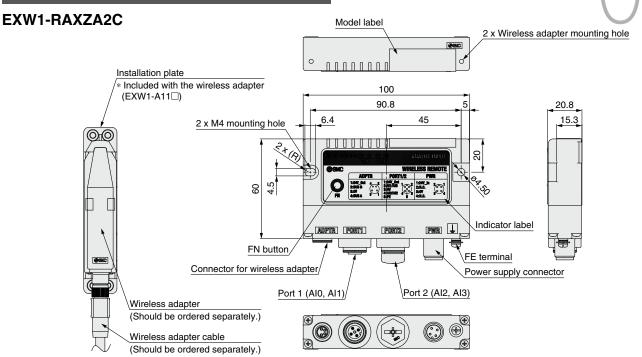




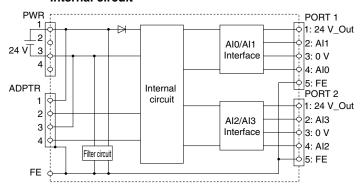


Dimensions/Parts Description

Compact Wireless Remote (Analog Input)



Internal circuit



Connector for Wireless Adapter

Pin no.	Description	M8, 4-pin, socket
1	24 V	4 💭 2
2	Internal BUS B	00
3	0 V	l _ @ <i>9</i> //.
4	Internal BUS A	3 💚 1

Power supply connector

	No.	Signal	Description	M12, 4-pin, plug A code
ŀ	4	24 V	24 VDC: Input*1	A code
L	ı	24 V	24 VDC. Input	4 ~ 3
	2	N.C.	N.C.	(0 0
	3	0 V	0 VDC	(0,0)
	4	N.C.	N.C.	1 🗸 2

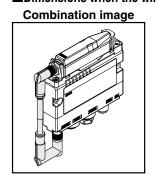
^{*1} Input 24 V ±10%.

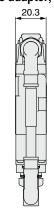
Analog device connector PORT 1/PORT 2

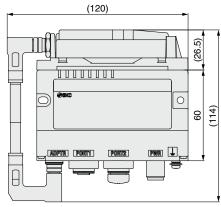
No.	Signal	Description	M12, 5-pin, socket
140.	Oignai	Description	A code
1	24 V	24 V: Output*2	4 4
2	Al1/Al3	Analog input	05 0
3	0 V	0 V	1 20 0
4	AI0/AI2	Analog input	
5	FE	FE	5 2

^{*2} Do not input power.

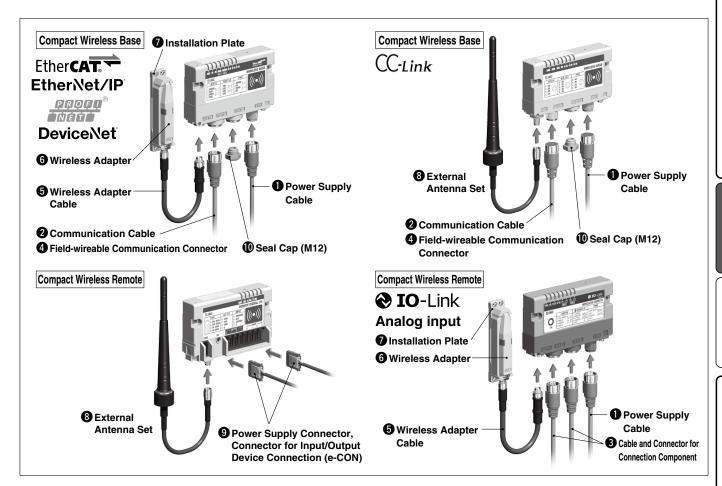
■Dimensions when the wireless adapter, cable for the wireless adapter (EXW1-AC001-SAPU), and installation plate are combined







Accessories (Optional Parts)



Power Supply Cable



EX500-AP 050

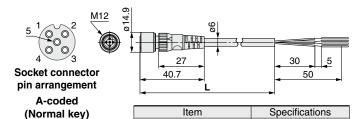
Cable length (L)

Connector specification

	· · · · · · · · · · · · · · · · · · ·		
010	1000 mm	S	Straight
050	5000 mm	Α	Angled

abic icligiti (L)		- 00	inicotor sp
010	1000 mm	S	Straight
050	5000 mm	Α	Angled

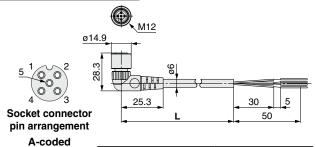
Straight connector type



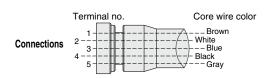
item	Specifications
Cable O.D.	ø6 mm
Conductor nominal cross section	0.3 mm ² /AWG22
Wire O.D. (Including insulator)	1.5 mm
Min. bending radius (Fixed)	40 mm

Angled connector type

(Normal key)



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



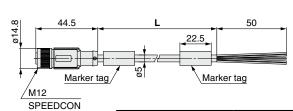
Power Supply Cable

For EtherCAT[®] For PROFINET For EtherNet/IP™ For IO-Link For Analog Input

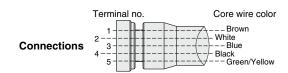
PCA- 1401804

Cable length (L) 1401804 1500 mm 1401805 3000 mm 1401806 5000 mm

Socket connector pin arrangement A-coded (Normal key)



Item	Specifications
Cable O.D.	ø5 mm
Conductor nominal cross section	0.34 mm ² /AWG22
Wire O.D. (Including insulator)	1.27 mm
Min. bending radius (Fixed)	21.7 mm



For CC-Link

Straight connector type

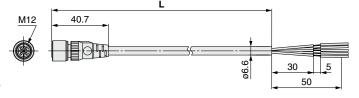
EX9-AC 050 - 1

Cable length (L) **010** 1000 mm **030** 3000 mm **050** 5000 mm

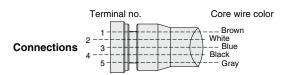


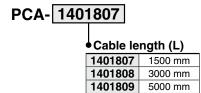


pin arrangement **B-coded** (Reverse key)



Item	Specifications
Cable O.D.	ø6.6 mm
Conductor nominal cross section	0.3 mm ² /AWG22
Wire O.D. (Including insulator)	1.65 mm
Min. bending radius (Fixed)	40 mm

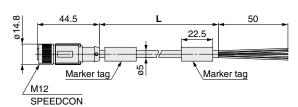




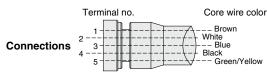
5000 mm

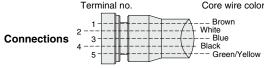


Socket connector pin arrangement **B-coded** (Reverse key)



Item	Specifications	
Cable O.D.	ø5 mm	
Conductor nominal cross section	0.34 mm ² /AWG22	
Wire O.D. (Including insulator)	1.27 mm	
Min. bending radius (Fixed)	21.7 mm	







50

0

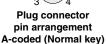
Communication Cable

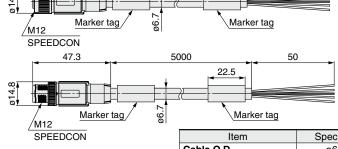




Socket connector pin arrangement A-coded (Normal key)

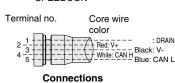






5000

22.5



44.5

Specifications	
ø6.7 mm	
AWG22	
AWG24	
ım	
nm	
m	

PCA-1557646 (Plug)

Made to Order Made to Order Cable length 10000 mm

Ouble length	

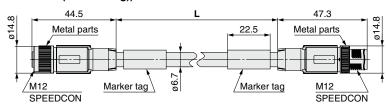
Min. bending radius (Fixed)

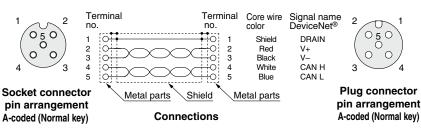
EX9-AC 005 DN-SSPS (With connector on both sides (Socket/Plug))

p. 35

Cable length (L) 005 500 mm 010 1000 mm 020 2000 mm 030 3000 mm 050 5000 mm 100 10000 mm

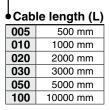
Item		Specifications
Cable O.D.		ø6.7 mm
Conductor nominal	Power pair	0.34 mm ² /AWG22
cross section	Data pair	0.25 mm ² /AWG24
Wire O.D.	Power pair	1.4 mm
(Including insulator)	Data pair	2.05 mm



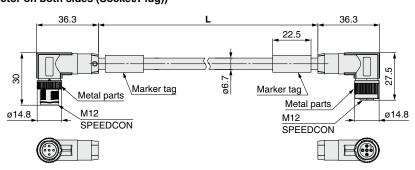


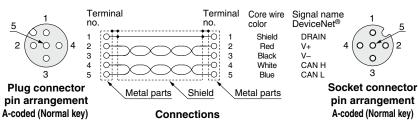
EX9-AC 005 DN-SAPA (With angled connector on both sides (Socket/Plug))

67 mm



Item		Specifications
Cable O.D.		ø6.7 mm
Conductor nominal	Power pair	0.34 mm ² /AWG22
cross section Data pair		0.25 mm ² /AWG24
Wire O.D.	Power pair	1.4 mm
(Including insulator) Data pair		2.05 mm
Min. bending radius (Fixed)		67 mm





0

0

0 00

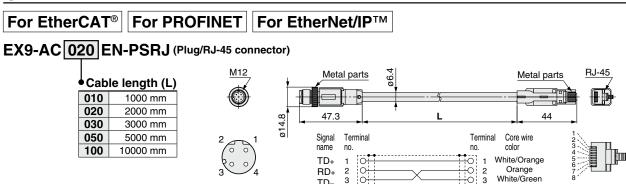


Plug connector

pin arrangement

Specific Product Precautions

2 Communication Cable



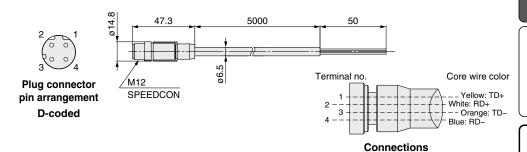
Shield Metal parts Connections (Straight cable)

3 TD-

RD-

Metal parts

PCA-1446566 (Plua)



3

Green

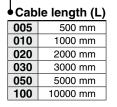
000

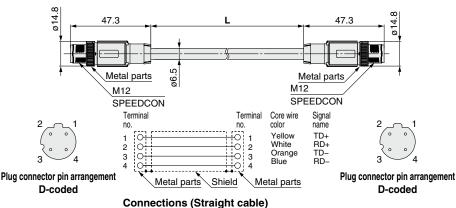
EX9-AC 005 EN-PSPS (With connector on both sides (Plug/Plug))

Plug connector

pin arrangement

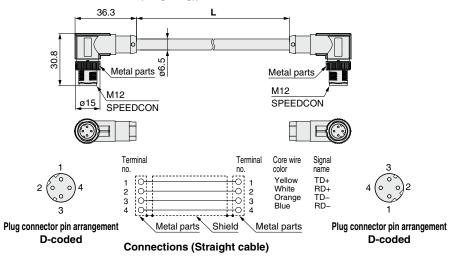
D-coded



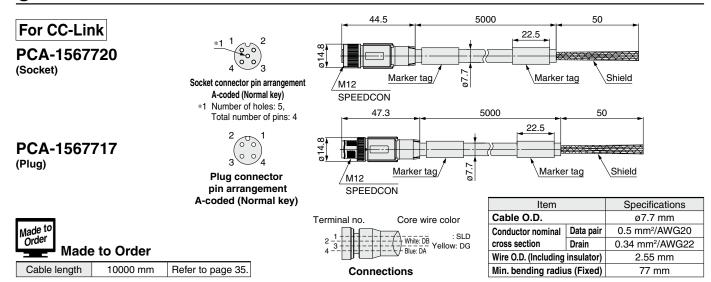


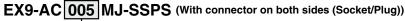
EX9-AC 005 EN-PAPA (With angled connector on both sides (Plug/Plug))

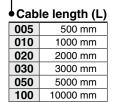
♦ Cable length (L)		
005	500 mm	
010	1000 mm	
020	2000 mm	
030	3000 mm	
050	5000 mm	
100	10000 mm	



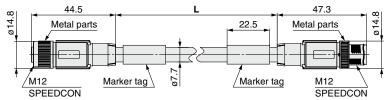
2 Communication Cable

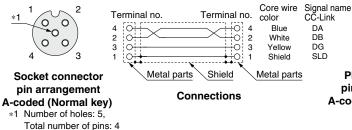






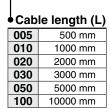
Item		Specifications
Cable O.D.		ø7.7 mm
Conductor nominal Data pair		0.5 mm ² /AWG20
cross section	Drain	0.34 mm ² /AWG22
Wire O.D. (Including	insulator)	2.55 mm
Min. bending radius (Fixed)		77 mm



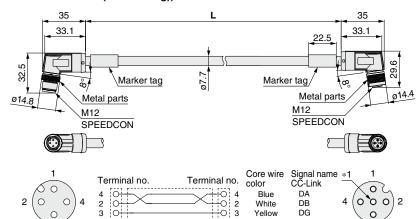


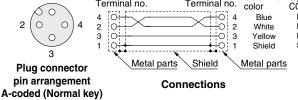
Plug connector pin arrangement A-coded (Normal key)

EX9-AC 005 MJ-SAPA (With angled connector on both sides (Socket/Plug))



Item		Specifications
Cable O.D.		ø7.7 mm
Conductor nominal	Data pair	0.5 mm ² /AWG20
cross section	Drain	0.34 mm ² /AWG22
Wire O.D. (Including insulator)		2.55 mm
Min. bending radius (Fixed)		77 mm



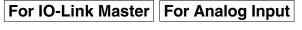


Socket connector pin arrangement A-coded (Normal key)

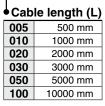
*1 Number of holes: 5, Total number of pins: 4

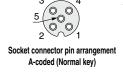
Specific Product Precautions

3 Cable and Connector for Connection Component



EX9-AC 005 -SSPS (With connector on both sides (Socket/Plug))

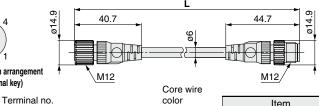




3 4

5

8



Brown White

Blue Black

Grav

For Analog Input

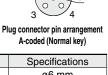
Y-branch Connector

(17.3)

CN0

7.

0 3 4



Plug connector pin arrangement

A-coded (Normal key)

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

ø14.9

M12

25.3

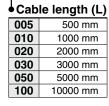
EXW1-ACY2

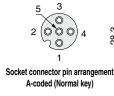
(12.5)

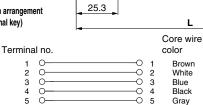
25

13.5









Connections

M12

Connections

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

(13.2)

CN1

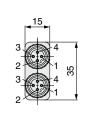
For IO-Link Master EXW1-ACY1 Y-branch Connector for Port Class A

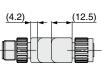
Plug connector

pin arrangement

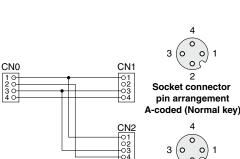
A-coded (Normal key)

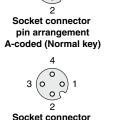
(17.3)13.5 CN₀ CN₁ 17.5





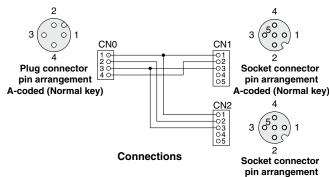
Connections





pin arrangement

A-coded (Normal key)



(4.2)

Socket connector pin arrangement A-coded (Normal key)



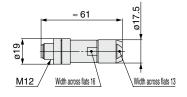
4 Field-wireable Communication Connector

Plug

For PROFINET For EtherNet/IP™ For EtherCAT®

PCA-1446553





Applicable Cable

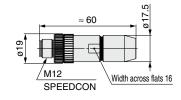
Item	Specifications
Cable O.D.	4.0 to 8.0 mm
Wire gauge (Stranded wire cross section)	0.14 to 0.34 mm ² /AWG26 to 22

* 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.

Plug

For DeviceNet® PCA-1075528





Applicable Cable

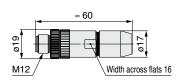
11	
Item	Specifications
Cable O.D.	4.0 to 8.0 mm
Wire gauge (Stranded wire cross section)	0.14 to 0.75 mm²/ AWG26 to 18 (Solid cable/Flexible cable)

Plug

For CC-Link

PCA-1557617





Applicable Cable

Item	Specifications
Cable O.D.	4.0 to 8.0 mm
Wire gauge (Stranded wire cross section)	0.14 to 0.5 mm ² /AWG26 to 20

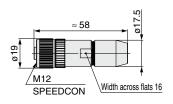
Plug

For DeviceNet®

PCA-1075529







Applicable Cable

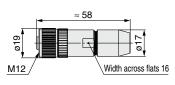
Item Specifications			
		Item	Specifications
Wire gauge (Stranded wire cross section) 0.14 to 0.75 mm²/ AWG26 to 18 (Solid cable/Flexible cable)		Cable O.D.	4.0 to 8.0 mm
		Wire gauge (Stranded wire cross section)	0.14 to 0.75 mm²/ AWG26 to 18 (Solid cable/Flexible cable)

Socket

For CC-Link

PCA-1557620





Applicable Cable

1	Applicable Gable		
	Item	Specifications	
	Cable O.D.	4.0 to 8.0 mm	
ĺ	Wire gauge (Stranded wire cross section)	0.14 to 0.5 mm ² /AWG26 to 20	

5 Wireless Adapter Cable

EXW1-AC1-X1

Secondary battery compatible

EXW1-AC001-SAPU EXW1-AC030-SSPS

- * Refer to page 22 for the dimensions and parts description.
- * This cable is required to connect the wireless base and wireless adapter.

Wireless Adapter

EXW1-A11 □

A wireless adapter cable is required to connect the wireless base and wireless adapter.

An installation plate (EXW1-AB4) is included as an accessory.

* Refer to page 21 for the dimensions and parts description.



EXW1-AB4 Included as an accessory with the

* Refer to page 21 for the dimensions



External Antenna Set

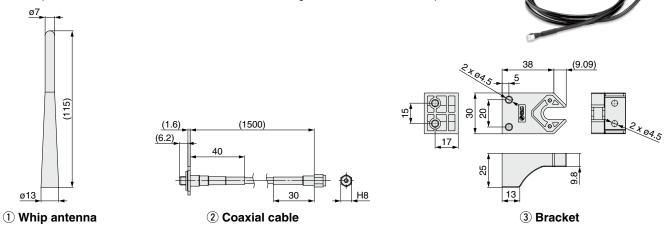
EXW1-EA1

(A set containing a whip antenna, coaxial cable, and bracket)

*1 The set is included with the external antenna specification. Only the included whip antenna and coaxial cable can be used with the product. Be sure to use them as a set.

H

- *2 The external antenna set cannot be used for the internal antenna specification.
- *3 It is not possible to use the external antenna set without connecting it with the external antenna specification.



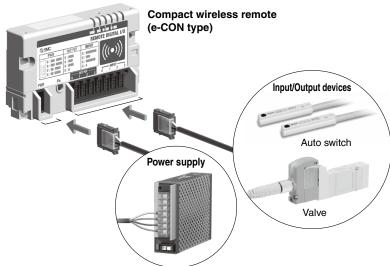




Power Supply Connector, Connector for Input/Output Device Connection (e-CON)

Select the applicable e-CON connectors based on the lead wire specifications of the components to be connected. Both the power supply and I/O connectors have the same shape as the e-CON (4-pin, socket). The lead wire specifications of each of our I/O devices are shown below for reference.

Connecting the remote and I/O devices



e-CON Part Nos. List

Part no.	AWG No.	Conductor cross section [mm SQ]	Finished outside diameter [mm]	Cover
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 (0 0.2	ø1.2 to ø1.6	Orange
ZS-28-C-3		0.3 to 0.5	ø1.0 to ø1.2	Green
ZS-28-C-4	22 to 20		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

Input/ Output	Product	Series	Appearance	Conductor cross section [mm²]	Insulator O.D. [mm]	Applicable e-CON part no.	
		JSY1000 Plug lead (V050-30-4A-□)		0.3	ø1.55	ZS-28-C-4 ZS-28-CA-5	
	Valve	JSY3000, 5000/SY/SYJ/SJ Plug lead (SY100-30-4A-□)		0.3	ø1.55	ZS-28-C-4 ZS-28-CA-5	
Output		SY/SYJ M8 connector (V100-49-1-□)		0.16 (AWG25)	ø1.2	ZS-28-C-1 ZS-28-CA-4	
Output	Ejector	ZB (AXT661-13A/14A-□)		AWG24	ø1.4	ZS-28-C-2 ZS-28-CA-5	
		ZL/ZM (SY100-30-4A-□)		0.3	ø1.55	ZS-28-C-4 ZS-28-CA-5	
		ZK2 (ZK2-LV□□-A)		0.2 (AWG24)	ø1.4	ZS-28-C-2 ZS-28-CA-5	
	Pressure	Z/ISE10, 20		0.15 (AWG26)	ø1.0	ZS-28-C-1 ZS-28-CA-2	
Input	riessure	PS1000		0.18	ø0.96	ZS-28-CA-2	
	Auto switch	D-M9	Carry Division	0.15	ø0.88	ZS-28-CA-1	
	Flow	PF2M		AWG26 (0.13)	ø1	ZS-28-CA-2	

Seal Cap (10 pcs.)

Be sure to mount a seal cap on any unused communication connectors.

Otherwise, the specified enclosure cannot be maintained.

* 1 cap is included with the wireless base (EXW1-B
) and the wireless remote (EXW1-RL
).





Made to Order

Please contact SMC for detailed specifications and lead times.



① Communication Cable

With connector on one side (Socket) Cable length: 10000 mm

For CC-Link

For DeviceNet®

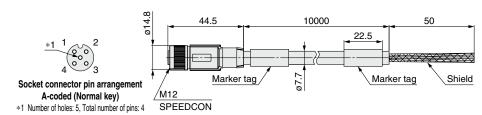
EX9-AC100 MJ -X12

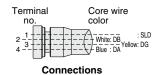
• Applicable protocol

MJ CC-Link

DN DeviceNet®

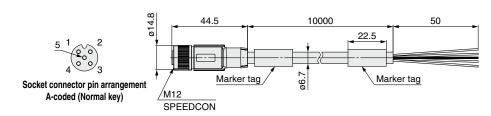
For CC-Link

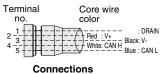




Item		Specifications
Cable O.D.		ø7.7 mm
Conductor nominal	Data pair	0.5 mm ² /AWG20
cross section	Drain	0.34 mm ² /AWG22
Wire O.D. (Including insulator)		2.55 mm
Min. bending radius (Fixed)		77 mm

For DeviceNet®





Item		Specifications
Cable O.D.		ø6.7 mm
Conductor nominal	Power pair	0.34 mm ² /AWG22
cross section	Data pair	0.25 mm ² /AWG24
Wire O.D. (Including	Power pair	1.4 mm
insulator)	Data pair	2.05 mm
Min. bending radius (Fixed)		67 mm

Wireless System

Modular Type

EX600-W Series (FOHS)



How to Order

Wireless Unit

EX600-WEN

Wireless compatible

Protocol •

Symbol	Specifications	Note
EN	Base module	For EtherNet/IP™
PN	Base module	For PROFINET
SV	Remote module	_

• Output type		
Symbol	Specifications	
1	PNP	
2	NPN	







Base module

Remote module

Digital Input Unit*1

EX600-DXPD



Digital input

Input type

Symbol	Description
Р	PNP
N	NPN

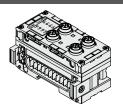
Number of inputs and connector

Symbol	Number of inputs	Connector
В	8 inputs	M12 connector (5 pins) 4 pcs.
С	8 inputs	M8 connector (3 pins) 8 pcs.
C1	8 inputs	M8 connector (3 pins) 8 pcs., With open-circuit detection
D	16 inputs	M12 connector (5 pins) 8 pcs.
Е	16 inputs	D-sub connector (25 pins)
F	16 inputs	Spring type terminal block (32 pins)

Digital Output Unit*1

EX600-DYPB

Digital output



Output type

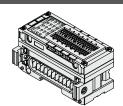
Symbol	Description
Р	PNP
N	NPN

Number of outputs and connector

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

Digital Input/Output Unit*1

EX600-DMP



Digital input/output

Input/Output to

"	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)

Analog Input Unit*1

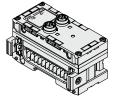
EX600-AXA



Number of input channels and connector

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





^{*1} For specifications, refer to the Fieldbus system EX600 series in the Web Catalog.



How to Order

Analog Output Unit*1

EX600-AY A



Number of output channels and connector

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

Analog Input/Output Unit*1

EX600-AMB

Analog input/output

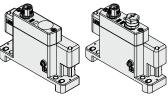
Number of input/output channels and connector

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

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

End Plate (D side)

EX600-ED2-2



For M12

End plate

End plate mounting position: D side

Power supply connector

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

*1 The pin layout for "4" and "5" pin connector is different.

Refer to the dimensions on page 28.

♦ Mounting method

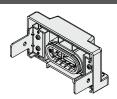
Symbol	Description	Note	
Nil	Without DIN rail mounting bracket	rail mounting bracket —	
2	With DIN rail mounting bracket	For SV, S0700, VQC series	
3	With DIN rail mounting bracket	For SY series	

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

End Plate (U side)

For 7/8 inch

EX600-<u>EU1</u>-2



End plate **●**

Symbol	Specifications	
1	Waterproof cover	

Specifications

Mounting method

Symbol	Description	Note
Nil	Without DIN rail mounting bracket	_
2	With DIN rail mounting bracket	For EX600-ED□-2
3	With DIN rail mounting bracket	For EX600-ED□-3

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

NFC Reader/Writer

EXW1-NT1

- * Order a fixing bracket.
- * A USB cable (3 m) is also included.

SD case (5 m) is also monuted

● Fixing bracket (Option)

When optional parts are required, order with the part number below.

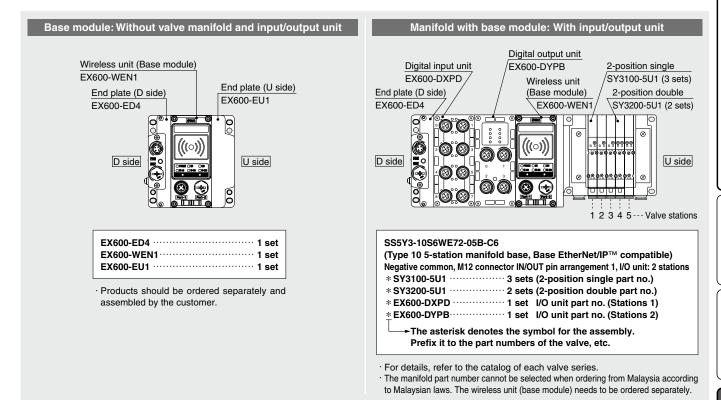
EXW1-AB 1

Variations

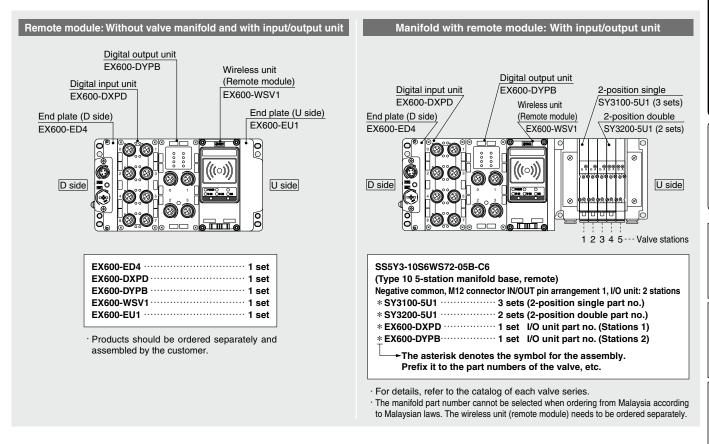
· vaii	ations		
Cumahal	Description	Appearance	
Symbol	Description	Single unit	Product mounting view
1	For EX600-W		



Ordering Example of the Base Module



Ordering Example of the Remote Module



Specifications

Base Module: EX600-WEN□

	Item		Specifications	
	Communication	protocol	EtherNet/IP™ (Conformance test version: Composite 12)	
	Transmission m	edium (cable)	Standard Ethernet cable (CAT5 or higher, 100BASE-TX)	
	Communication		10 Mbps/100 Mbps	
	Communication method		Full duplex/Half duplex	
	Configuration file		EDS file*1	
	IP address setti		Manual/BOOTP, DHCP	
EtherNet/IP™		9	Vendor ID: 7 (SMC Corp.)	
communication	Device informat	ion	Device type: 12 (Communication Adaptor)	
			Product code: 186	
	Topology		Star, Bus, Ring (DLR), Line, Tree	
	QuickConnect™	1 function	Applicable	
	DLR function		Applicable	
	Web server fund	etion	Applicable	
	Protocol		SMC original protocol (SMC encryption) V.1.0	
	Radio wave type	e (spread)	Frequency Hopping Spread Spectrum (FHSS)	
	Frequency	(cp. cas)	2.4 GHz (2403 to 2481 MHz)	
Wireless	Number of frequ	iency channels	79 ch (Bandwidth: 1.0 MHz)	
communication	Communication	<u> </u>	250 kbps	
	Communication		10 m (Depending on the operating environment)	
			Refer to the SMC website for the latest information regarding in which countries	
	Radio Law certif	ficate	the product is certified.	
	For control/input	Power supply voltage	24 VDC ±10%	
	(US1)	Current consumption	150 mA or less	
Electrical	For output	Power supply voltage	24 VDC ±10%	
	(US2)	Max. supply current	4 A	
	Number of	System input size	Max. 1280 points together with the registered remote modules	
	inputs	Input size	Max. 128 points (increase or decrease by 16 points)	
	Number of	System output size	Max. 1280 points together with the registered remote modules	
	outputs	Output size	Max. 128 points (increase or decrease by 16 points)	
	Analog input/output	AD refresh time	10 ms or less (the input connected to the base module)	
			0.1/0.2/0.5/1/2/5/10/30/60 s	
			(the input connected to the remote module)*2	
			10 ms or less (the output connected to the base module)	
Input/Output		DA refresh time	0.1/0.2/0.5/1/2/5/10/30/60 s	
			(the output connected to the remote module)*2	
Ì		0	EX600-WEN1: Source/PNP (-COM)	
	V-1	Output type	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 remote modules connected*3		Max. 127 units (0/15/31/63/127 units)	
	Number of conn	ected EX600 I/O units	Max. 9 EX600 series I/O units (I/O = 128. I/O above 128 cannot be recognized.)	
	Enclosure		Conforms to IP67 (with manifold assembled)	
	Ambient tempera	ature (Operating temperature)	−10 to +50°C	
Ì	Ambient tempera	ature (Storage temperature)	−20 to +60°C	
	Ambient humidi		35 to 85% RH (No condensation)	
l l	Withstand voltage		500 VAC for 1 minute between external terminals and metallic parts	
	Withstand voltage	3 -		
	Insulation resist		10 $M\Omega$ or more (500 VDC between external terminals and metallic parts)	
,			10 MΩ or more (500 VDC between external terminals and metallic parts) Conforms to EN 61131-2	
General	Insulation resist	tance		
General		tance	Conforms to EN 61131-2 5 ≤ f < 8.4 Hz 3.5 mm 8.4 ≤ f < 150 Hz 9.8 m/s²	
General	Insulation resist	tance	Conforms to EN 61131-2 $5 \le f < 8.4 \text{ Hz } 3.5 \text{ mm} \\ 8.4 \le f < 150 \text{ Hz } 9.8 \text{ m/s}^2 \\ \text{(Excludes valve manifold)}$	
General	Insulation resist	ance	Conforms to EN 61131-2 $5 \le f < 8.4 \text{ Hz } 3.5 \text{ mm}$ $8.4 \le f < 150 \text{ Hz } 9.8 \text{ m/s}^2$ (Excludes valve manifold) Conforms to EN 61131-2	
General	Insulation resist	ance	Conforms to EN 61131-2 5 ≤ f < 8.4 Hz 3.5 mm 8.4 ≤ f < 150 Hz 9.8 m/s² (Excludes valve manifold) Conforms to EN 61131-2 147 m/s², 11 ms	
General	Vibration resistant	ance	Conforms to EN 61131-2 $5 \le f < 8.4 \text{ Hz } 3.5 \text{ mm}$ $8.4 \le f < 150 \text{ Hz } 9.8 \text{ m/s}^2$ (Excludes valve manifold) $\text{Conforms to EN 61131-2}$ $147 \text{ m/s}^2, 11 \text{ ms}$ (Excludes valve manifold)	
General	Vibration resistant Impact resistant Standards	ance	Conforms to EN 61131-2 5 ≤ f < 8.4 Hz 3.5 mm 8.4 ≤ f < 150 Hz 9.8 m/s² (Excludes valve manifold) Conforms to EN 61131-2 147 m/s², 11 ms (Excludes valve manifold) CE/UKCA marking	
General	Vibration resistant Impact resistant Standards Weight	ance ce	Conforms to EN 61131-2 $5 \le f < 8.4 \text{ Hz } 3.5 \text{ mm}$ $8.4 \le f < 150 \text{ Hz } 9.8 \text{ m/s}^2$ (Excludes valve manifold) $\text{Conforms to EN } 61131-2$ $147 \text{ m/s}^2, 11 \text{ ms}$ (Excludes valve manifold) $\text{CE/UKCA } \text{marking}$ 300 g	
	Vibration resistant Impact resistant Standards Weight Communication	ance ce	Conforms to EN 61131-2 $5 \le f < 8.4 \text{ Hz } 3.5 \text{ mm}$ $8.4 \le f < 150 \text{ Hz } 9.8 \text{ m/s}^2$ (Excludes valve manifold) $\text{Conforms to EN } 61131-2$ $147 \text{ m/s}^2, 11 \text{ ms}$ (Excludes valve manifold) CE/UKCA marking 300 g $\text{ISO/IEC } 14443B \text{ (Type-B)}$	
NFC	Vibration resistant Impact resistant Standards Weight Communication Frequency	ance ce standard	Conforms to EN 61131-2 $5 \le f < 8.4 \text{ Hz } 3.5 \text{ mm}$ $8.4 \le f < 150 \text{ Hz } 9.8 \text{ m/s}^2$ (Excludes valve manifold) $ \text{Conforms to EN 61131-2} $ $147 \text{ m/s}^2, 11 \text{ ms} $ (Excludes valve manifold) $ \text{CE/UKCA marking} $ $ 300 \text{ g} $ $ \text{ISO/IEC } 14443B \text{ (Type-B)} $ $ 13.56 \text{ MHz} $	
	Vibration resistant Impact resistant Standards Weight Communication	ance ce standard speed	Conforms to EN 61131-2 $5 \le f < 8.4 \text{ Hz } 3.5 \text{ mm}$ $8.4 \le f < 150 \text{ Hz } 9.8 \text{ m/s}^2$ (Excludes valve manifold) $ \text{Conforms to EN 61131-2} $ $147 \text{ m/s}^2, 11 \text{ ms} $ (Excludes valve manifold) $ \text{CE/UKCA marking} $ $ 300 \text{ g} $ $ \text{ISO/IEC 14443B (Type-B)} $	

st 1 The configuration file can be downloaded from the SMC website: https://www.smcworld.com

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

^{*3} The recommended number of simultaneously operating units is 1 to 15 units.

 $[\]ast 4\,$ The NFC communication RFID tag of the 13.56 MHz passive type

Specifications

Base Module: EX600-WPN□

	Item		Specifications
Communication protocol			PROFINET IO
	Conformance cl	ass	Class C (Only for IRT switch function)
	Transmission medium (cable)		Standard Ethernet cable (CAT5 or higher, 100BASE-TX)
PROFINET	Transmission speed		100 Mbps
communication	Configuration fi	le	GSDML file*1
	FSU (Fast Start		Applicable
	•	lundancy Protocol)	Applicable
	Web server fund	•	Applicable
	Protocol		SMC original protocol (SMC encryption) V.1.0
	Radio wave type	(spread)	Frequency Hopping Spread Spectrum (FHSS)
	Frequency	(ор. ос.)	2.4 GHz (2403 to 2481 MHz)
Wireless	Number of frequ	iency channels	79 ch (Bandwidth: 1.0 MHz)
communication	Communication	-	250 kbps
	Communication	· <u>·</u>	10 m (Depending on the operating environment)
•	Communication	uistance	Refer to the SMC website for the latest information regarding in which countries
	Radio Law certif		the product is certified.
	For control/input	Power supply voltage	24 VDC ±10%
Electrical	(US1)	Current consumption	150 mA or less
	For output	Power supply voltage	24 VDC ±10%
	(US2)	Max. supply current	4 A
	Number of	System input size	Max. 1280 points together with the registered remote modules
	inputs	Input size	Max. 128 points (increase or decrease by 16 points)
	Number of	System output size	Max. 1280 points together with the registered remote modules
	outputs	Output size	Max. 128 points (increase or decrease by 16 points)
	Analog input/output	AD refresh time	10 ms or less (the input connected to the base module)
			0.1/0.2/0.5/1/2/5/10/30/60 s (the input connected to the remote module)*2
Input/Output		DA refresh time	10 ms or less (the output connected to the base module) 0.1/0.2/0.5/1/2/5/10/30/60 s
		DA Terresii time	(the output connected to the remote module)*2
			EX600-WPN1: Source/PNP (–COM)
		Output type	EX600-WPN2: 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 SM
-	Number of remo	te modules connected*3	Max. 31 units (0/15/31 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		Conforms to IP67 (with manifold assembled)
ŀ		ture (Operating temperature)	-10 to +50°C
ŀ		ature (Storage temperature)	-20 to +60°C
}	Ambient humidi		35 to 85% RH (No condensation)
ŀ	Withstand voltage	·	500 VAC for 1 minute between external terminals and metallic parts
ŀ	Insulation resist	-	10 MΩ or more (500 VDC between external terminals and metallic parts)
}	modiation resist	unoc	Conforms to EN 61131-2
General	Vilamenta : :		5 ≤ f < 8.4 Hz 3.5 mm
	Vibration resista	ance	$8.4 \le f < 150 \text{ Hz } 9.8 \text{ m/s}^2$
			(Excludes valve manifold)
			Conforms to EN 61131-2
	Impact resistant	ce	147 m/s², 11 ms
	.		(Excludes valve manifold)
	Standards		CE/UKCA marking
	Weight		300 g
	Communication	standard	ISO/IEC 14443B (Type-B)
NFC	Frequency		13.56 MHz
communication*4	Communication speed		20 to 100 kHz (I2C)
ļ.	Communication distance		

^{*1} The configuration file can be downloaded from the SMC website: https://www.smcworld.com *2 Varies depending on the wireless communication status and the surrounding environment

^{*4} The NFC communication RFID tag of the 13.56 MHz passive type



^{*3} The recommended number of simultaneously operating units is 1 to 15 units.

Specifications

Remote Module: EX600-WSV□

	Item		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)	
	AD/DA refresh tii	me	0.1/0.2/0.5/1/2/5/10/30/60 s*1	
Input/Output	Number of conne	ected EX600 I/O units	Max. 9 EX600 I/O units (I/O = 128. I/O above 128 cannot be recognized.)	
mpuvOutput	Value autout	Output type	EX600-WSV1: Source/PNP (-COM) EX600-WSV2: 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)	
	Protocol		SMC original protocol (SMC encryption) V.1.0	
	Radio wave type (spread)		Frequency Hopping Spread Spectrum (FHSS)	
	Frequency		2.4 GHz (2403 to 2481 MHz)	
Wireless	Number of frequency channels		79 ch (Bandwidth: 1.0 MHz)	
communication	- Communication speed		250 kbps	
	Communication distance		10 m (Depending on the operating environment)	
	Radio Law certificate		Refer to the SMC website for the latest information regarding in which countries the product is certified.	
	Enclosure		Conforms to IP67 (with manifold assembled)	
	Ambient tempera	ture (Operating temperature)	−10 to +50°C	
	Ambient temperature (Storage temperature) Ambient humidity		−20 to +60°C	
			35 to 85% RH (No condensation)	
	Withstand voltage		500 VAC for 1 minute between external terminals and metallic parts	
	Insulation resista	ance	10 $M\Omega$ or more (500 VDC between external terminals and metallic parts)	
General	Vibration resistance		Conforms to EN 61131-2 $5 \le f < 8.4$ Hz 3.5 mm $8.4 \le f < 150$ Hz 9.8 m/s² (Excludes valve manifold)	
	Impact resistance		Conforms to EN 61131-2 147 m/s², 11 ms (Excludes valve manifold)	
	Standards		CE/UKCA marking	
	Weight		280 g	
	Communication	standard	ISO/IEC 14443B (Type-B)	
NFC	Frequency		13.56 MHz	
communication*2	Communication	speed	20 to 100 kHz (I2C)	
	Communication	distance	Up to 1 cm	

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

End Plate (D side)

Elia i late (b side)					
Model			EX600-ED2-□	EX600-ED3-□	EX600-ED4/5-□
	Power supply	PWR IN	M12 (5-pin) plug	7/8 inch (5-pin) plug	M12 (4-pin) plug
	connector	PWR OUT	_	_	M12 (5-pin) socket
Electrical	Rated	Power supply for control/input	24 VDC ±10%		
Electrical	voltage	Power supply for output	24 VDC +10/-5%		
	Rated	Power supply for control/input	Max. 2 A	Max. 8 A	Max. 4 A
	current	Power supply for output			
Enclosure			IP67 (with manifold assembled)		
Standards*1			CE/UKCA marking, UL (CSA)		
Weight			170 g	175 g	170 g

^{*1} The EX600-ED4/5- \square is not compliant with UL (CSA) standards.



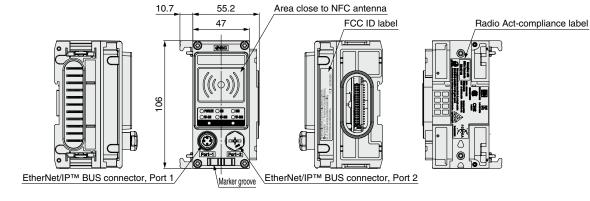
^{*2} The NFC communication RFID tag of the 13.56 MHz passive type

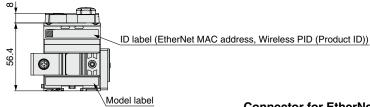
Dimensions



EX600-WEN□







Connector for EtherNet/IP™ Port 1/Port 2

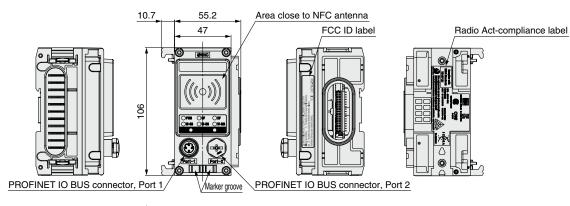
M12, 4-pin, D-coded, socket	Pin no.	Description
2	1	Tx+
1 (00)3	2	Rx+
	3	Tx-
4	4	Rx-

Dimensions

Base Module

EX600-WPN□







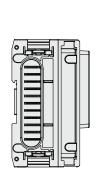
PROFINET IO BUS connector, Port 1/Port 2

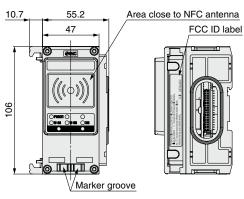
M12, 4-pin, D-coded, socket	Pin no.	Description
2	1	TD+
1 603	2	RD+
1 6933	3	TD-
4	4	RD-

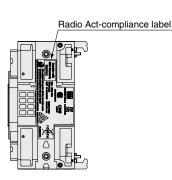
Remote Module

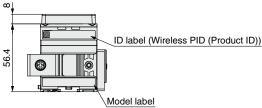
EX600-WSV□







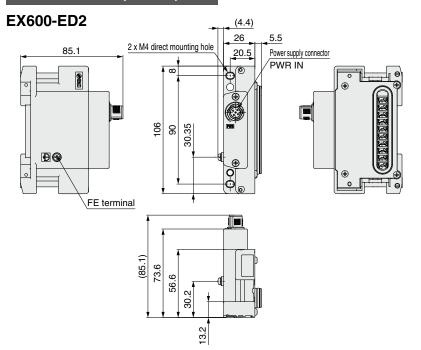






Dimensions

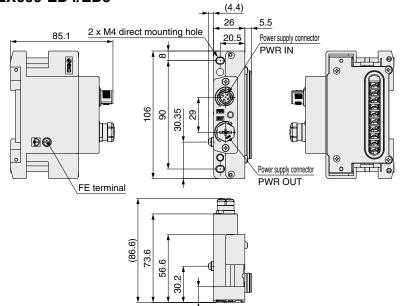
End Plate (D side)



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

Configuration	Pin no.	Description	
	1	24 V (for output)	
2 1	2	0 V (for output)	
5(00)	3	24 V (for control/input)	
3 4	4	0 V (for control/input)	
	5	FE	

EX600-ED4/ED5



13.2

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

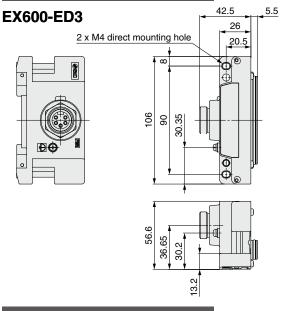
Configuration	EX600-ED4 (Pin arrangement 1)		EX600-ED5 (Pin arrangement 2)	
Corniguration	Pin no.	Description	Pin no.	Description
3 _ 2	1	24 V (for control/input)	1	24 V (for output)
600	2	24 V (for output)	2	0 V (for output)
(0 9)	3	0 V (for control/input)	3	24 V (for control/input)
4 1	4	0 V (for output)	4	0 V (for control/input)

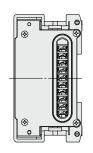
Power supply connector PWR OUT: M12 5-pin socket, A-coded

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

Dimensions

End Plate (D side)



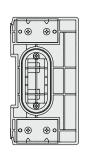


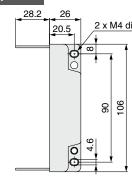
Power supply connector PWR: 7/8 inch 5-pin plug

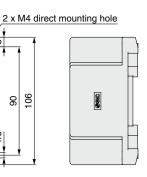
Configuration	Pin no.	Description
5 4	1	0 V (for output)
	2	0 V (for control/input)
	3	FE
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4	24 V (for control/input)
30	5	24 V (for output)

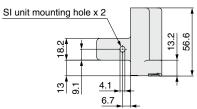
End Plate (U side)

EX600-EU1



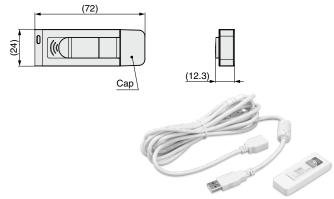






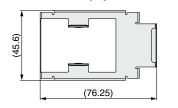
NFC Reader/Writer

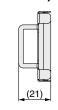
EXW1-NT1



Fixing Bracket

EXW1-AB1 (Option, For EX600-W)

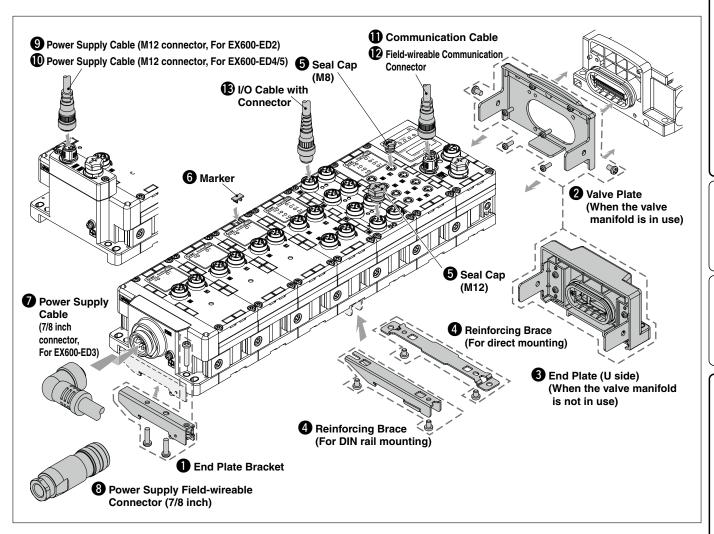






^{*} Order a fixing bracket.

Accessories (Optional Parts)



1 End Plate Bracket

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



EX600-ZMA2

(For the SV, S0700, and VQC series)

Enclosed parts

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

EX600-ZMA3

(For the SY and JSY series)

Enclosed parts

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

Valve Plate

EX600-ZMV1

(For the SV, S0700, and VQC series)

Enclosed parts

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



EX600-ZMV2

(For the SY and JSY series)

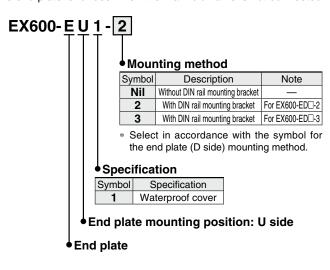
Enclosed parts

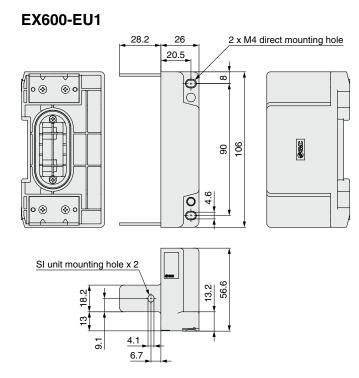
Round head screw (M4 x 6) 2 pcs. Round head screw (M3 x 8) 2 pcs.



Send Plate (U side)

The end plate is for use when the manifold valve is not connected.





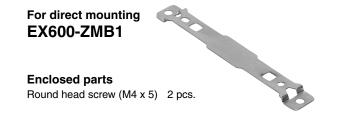
Enclosed parts

Round head screw (M4 x 6) 2 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 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.

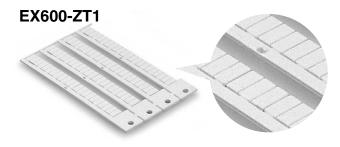


EX9-AWES



6 Marker (1 sheet, 88 pcs.)

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



Power Supply Cable (7/8 inch connector, For EX600-ED3)

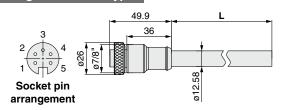
 PCA-1558810
 Straight 2 m

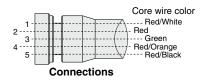
 PCA-1558823
 Straight 6 m

 PCA-1558836
 Right angled 2 m

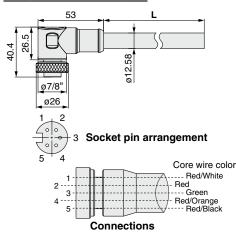
 PCA-1558849
 Right angled 6 m

Straight connector type





Angled connector type



Item	Specifications
Cable O.D.	ø12.58 mm
Conductor nominal cross section	1.5 mm ² /AWG16
Wire O.D. (Including insulator)	2.35 mm
Min. bending radius (Fixed)	110 mm

Power Supply Field-wireable Connector (7/8 inch)

PCA-1578081 Socket [compatible with AWG22-16]



Applicable Cable

Item	Specifications
Cable O.D.	ø12.0 to 14.0 mm
Wire gauge (Stranded	0.34 to 1.5 mm ²
wire cross section)	AWG22 to 16

9 Power Supply Cable (M12 connector, For EX600-ED2) * The shape of the M12 connector is B-coded (Reverse key).

 PCA-1564927
 Straight 2 m

 PCA-1564930
 Straight 6 m

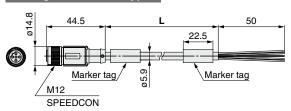
 PCA-1564943
 Right angled 2 m

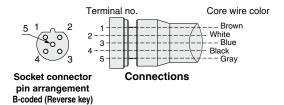
 PCA-1564969
 Right angled 6 m



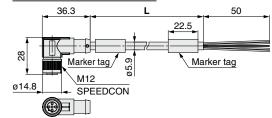
SPEEDCON

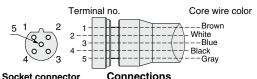
Straight connector type





Angled connector type





Socket connector pin arrangement B-coded (Reverse key)

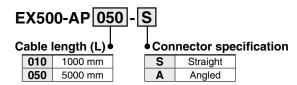
-		
	Item	
	Cable O.D.	П

item	Specifications
Cable O.D.	ø5.9 mm
Conductor nominal cross section	0.34 mm ² /AWG22
Wire O.D. (Including insulator)	1.27 mm
Min. bending radius (Fixed)	59 mm

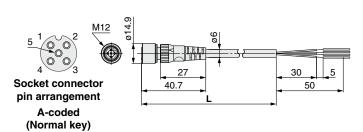


(M12 connector, For EX600-ED4/5)

* The shape of the M12 connector is A-coded (Normal key).

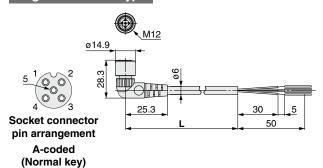


Straight connector type

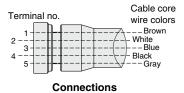


Item	Specifications
Cable O.D.	ø6 mm
Nominal cross section	0.3 mm ² /AWG22
Wire diameter (Including insulator)	1.5 mm
Min. bending radius	40 mm (Fixed)

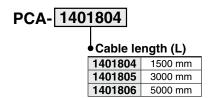
Angled connector type

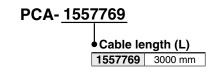


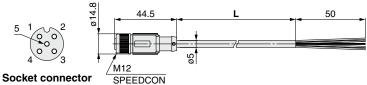
Item	Specifications
Cable O.D.	ø6 mm
Nominal cross section	0.3 mm ² /AWG22
Wire diameter (Including insulator)	1.5 mm
Min bending radius	40 mm (Fixed)



SPEEDCON

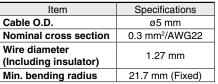


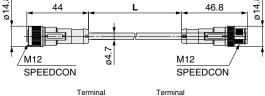




pin arrangement A-coded (Normal key)

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)		



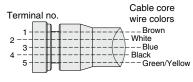




pin arrangement A-coded (Normal key)

Socket connector Connections

Plug connector pin arrangement A-coded (Normal key)



Connections



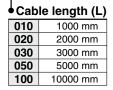
Technical Data

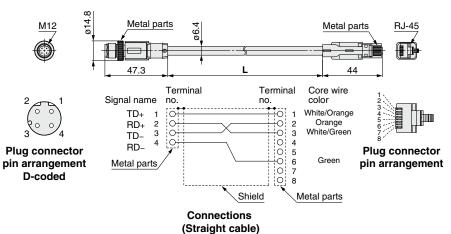
Specific Product | Country-specific Radio | Precautions | Law Compliance Table

① Communication Cable



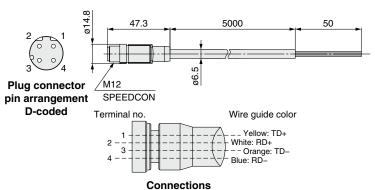
EX9-AC 020 EN-PSRJ (Plug/RJ-45 connector)





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

PCA-1446566 (Plug)

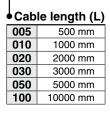


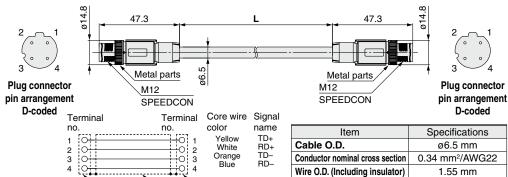
Item	Specifications
Cable O.D.	ø6.5 mm
Conductor nominal cross section	AWG22
Wire O.D. (Including insulator)	1.55 mm
Min. bending radius (Fixed)	45.5 mm

Communication Cable

For PROFINET | For EtherNet/IP™

EX9-AC 005 EN-PSPS (With connector on both sides (Plug/Plug))





Metal parts

19.5 mm

0.34 mm²/AWG22

1.55 mm

19.5 mm

Min. bending radius (Fixed)

Conductor nominal cross section

Wire O.D. (Including insulator)

Min. bending radius (Fixed)

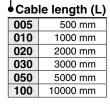
Connections (Straight cable)

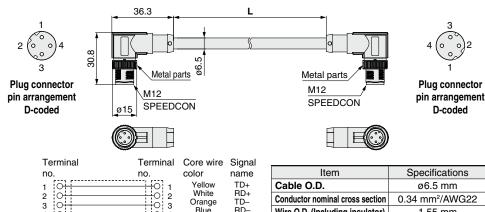
Shield

Metal parts

EX9-AC 005 EN-PAPA (With angled connector on both sides (Plug/Plug))

3 4





Orange Blue

Metal parts

TD-RD-

Connections (Straight cable)

Metal parts

Shield

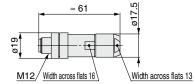
Prield-wireable Communication Connector

Plug

For PROFINET For EtherNet/IP™

PCA-1446553





Applicable Cable

Item	Specifications				
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.

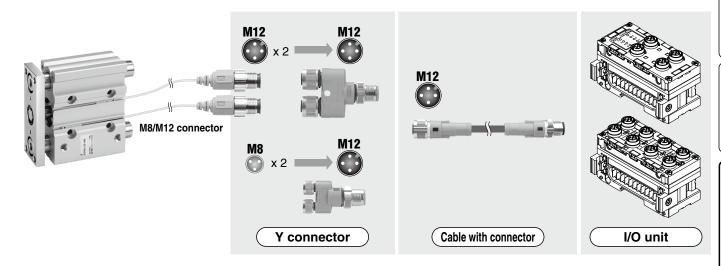


Accessories **EX600-W** Series

❸ I/O Cable with Connector, I/O Connector

Name	Use	Part no.	Description		
Cable with connector	For sensor	PCA-1557769	Cable with M12 connector (4 pins/3 m)		
		PCA-1557772	Cable with M8 connector (3 pins/3 m)		
Field-wireable connector	For sensor	PCA-1557730	Field-wireable connector (M8/3 pins/Plug/Piercecon® connection)		
		PCA-1557743	Field-wireable connector		
		PCA-1557756	(M12/4 pins/Plug/QUICKON-ONE connection/SPEEDCON)		
Y connector	For sensor	PCA-1557785	Y connector (2 x M12 (5 pins)-M12 (5 pins)/SPEEDCON)		
		PCA-1557798	Y connector (2 x M8 (3 pins)-M12 (4 pins)/SPEEDCON)		

- * For further information, refer to the M8/M12 connector PCA series in the Web Catalog.
- * When using the Y connector, connect it to the connector on the I/O unit through the sensor cable (PCA-1557769) with the M12 connector.

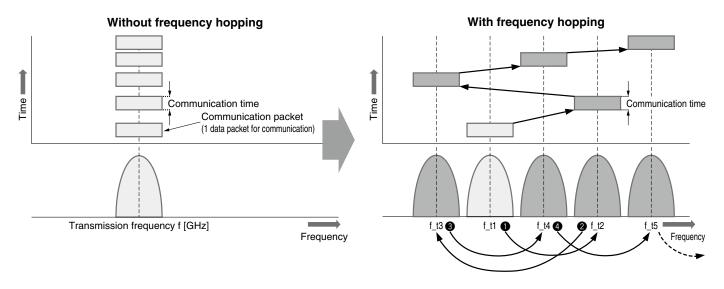


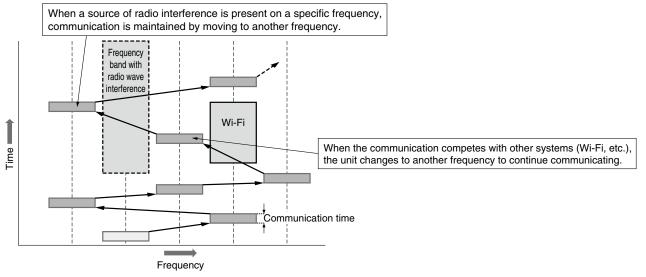
Technical Data

Frequency Hopping (FHSS: Frequency Hopping Spread Spectrum)

This communication technology uses spread spectrum transmission with frequency hopping to rapidly switch between frequencies. Because the frequency is constantly changing, this communication method is resistant to radio wave interference due to reflections or noise from other wireless equipment. It also allows for 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.





<u>Marning</u> < Important >

- This product is already certified in accordance with the Radio Act and the Japanese Radio Law, so customers do not need to apply for a license to use this product.
 - However, be sure to comply with the following.
 - · Do not disassemble or modify the product. Disassembly and modification are prohibited by law.
 - · Customers in countries that comply with the Radio Law should refer to the "Country-specific Radio Law Compliance Table."
- As this product communicates by radio waves, communication may stop temporarily due to the ambient environment and/or operating method.
 SMC will not be held responsible for any secondary failure which may cause personal injury or damage to other devices or equipment.
- When several units are installed in close proximity 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 details on what types of equipment need to be avoided.
- The communication performance is affected by the ambient environment, so be sure to perform communication testing before use.



Accessol

Made to

EXW1/EX600-W Series Country-specific Radio Law Compliance Table

As of June 2024

		Wireless system					
		Compact type EXW1 Compact base/remote				Modular type	NFC reader/write
		Wireless adapt	er EXW1-A1	CC-Link/e-CON External antenna External antenna set		EX600-W	
A ===	County //Dogica	D-1	Deduced with Manager	Dark words on the Edward	Internal antenna	EX600-W	EVW4 NT4
Area	Country/Region Ireland	Part number suffix: E type	Part number suffix: N type	Part number suffix: E type	Part number suffix: N type		EXW1-NT1
	Italy	Ö	Ö	Ö	Ö	0	Ö
	Estonia	0	0	0	0	0	0
	Austria	0	0	0	0	0	0
	Netherlands Cyprus	0	0	0	0	0	0
	Greece	0	0	0	0	0	
	Croatia	0	0	0	0	0	0
	Sweden	0	0	0	0	0	0
	Spain Slovakia	0	0	0	0	<u> </u>	0
H	Slovakia	0	0	0	0	0	
Europe	Czech Republic	0	0	0	0	0	0
CE	Denmark	0	0	0	0	0	0
-	Germany Hungary	0	0	0	0	0	0
	Finland	0	0	0	0	0	0
	France	0	Ö	Ö	Ö	0	0
	Bulgaria	0	0	0	0	0	0
	Belgium	0	0	0	0	0	0
	Poland Portugal	0	0	0	0	0	0
	Malta	0	0	0	0	0	
	Latvia	0	0	0	0	0	0
	Lithuania	0	0	0	0	0	0
	Romania	0	0	0	0	0	0
	Luxembourg Iceland	0	0	0	0	0	0
	Liechtenstein	0	0	0	0	0	
	Switzerland	0	0	0	0	0	0
	Norway	0	0	0	0	0	0
Other	Turkey U.K.	0	0	0	0	0	0
Europe	Ukraine		_	_	_	0	
	Israel	0	0	_	_		
	Saudi Arabia	0	0	_	_	_	_
	United Arab Emirates	0	0	_	_	_	_
	Serbia South Africa	0	0	_	_	<u> </u>	0
Africa	Egypt	0	Ö	_	_		<u> </u>
	Morocco	_	_	_	_	0	0
_	U.S.	_	0	_	0	0	0
North,	Argentina Canada	_	0		0	0	0
Central,	Chile	0	0	_		<u> </u>	0
nd South	Colombia	0	0	0	0	0	0
America	Peru	0	0	_	_	_	0
-	Brazil Mexico		0		0	0	0
	India	0	0	0	0	0	0
	Pakistan	0	0	_	_	_	_
	Indonesia	0	0	_	_		0
H	Australia South Korea	<u> </u>	0	0	0	0	0
	Singapore	0	0	_	_	0	0
	Thailand	0	0	0	0	0	0
	China	0	0	0	0	0	0
Asia	Japan New Zeeland	0	0	0	0	0	0
H	New Zealand Philippines	0	0	0	0	0	0
	Myanmar	0	0	_	_		0
	Vietnam	0	0	0	0	0	0
	Bangladesh	0	0	_	_	_	0
	Hong Kong Malaysia* ¹	0	0	<u> </u>	_ O		0
	Taiwan)	0		U	0	0

^{*1} If this product is to be imported into Malaysia (including if the product is integrated into other equipment), an SMC Wireless System Certificate of Compliance and a test report may be required in some cases. Please contact SMC for further details.



EXW1/EX600-W Series Specific Product Precautions

Be sure to read this before handling the products. Refer to the back cover for safety instructions. For fieldbus system precautions, refer to the "Operation Manual" on the SMC website: https://www.smcworld.com

Notice

⚠ Caution

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Handling Precautions

⚠ Caution

- 1. This equipment complies with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the operation manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
- 2. This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:
 - (1) This device may not cause interference; and
 - (2) This device must accept any interference, including interference that may cause undesired operation of the device.
- 3. When operating the product, please be sure to maintain a separation distance of at least 20 cm between your body (excluding fingers, hands, wrists, ankles, and feet) and the product to meet RF exposure safety requirements as determined by FCC and Innovation, Science and Economic Development Canada. Installation of this device must ensure that at 20 cm separation distance is maintained between the device and end users.



⚠ 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.

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

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

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

*1) ISO 4414: Pneumatic fluid power - General rules and safety requirements for systems and their components ISO 4413: Hydraulic fluid power - General rules and safety requirements for systems and their components IEC 60204-1: Safety of machinery - Electrical equipment of machines - Part 1: General requirements ISO 10218-1: Robots and robotic devices - Safety requirements for industrial robots - Part 1:Robots

⚠Warning

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 and experienced.

- 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. Our products cannot be used beyond their specifications. Our products are not developed, designed, and manufactured to be used under the following conditions or environments. Use under such conditions or environments is not covered.
 - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Use for nuclear power, railways, aviation, space equipment, ships, vehicles, military application, equipment affecting human life, body, and property, fuel equipment, entertainment equipment, emergency shut-off circuits, press clutches, brake circuits, safety equipment, etc., and use for applications that do not conform to standard specifications such as catalogs and operation manuals.
 - 3. Use for interlock circuits, except for use with double interlock such as installing a mechanical protection function in case of failure. Please periodically inspect the product to confirm that the product is operating properly.

⚠ Caution

We develop, design, and manufacture our products to be used for automatic control equipment, and provide them for peaceful use in manufacturing industries.

Use in non-manufacturing industries is not covered.

Products we manufacture and sell cannot be used for the purpose of transactions or certification specified in the Measurement Act.

The new Measurement Act prohibits use of any unit other than SI units in

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.

Revision History

Edition B * A U-side end plate (for the SY) has been added.

Edition C * The EXW1 series compact wireless system has been added.

Edition D * UKCA compliance has been added.

Countries in which the product is Radio Law certified have been added. AY

Edition E * EtherCAT (protocol) has been added to the EXW1 series (compact type).

* The number of pages has been increased from 48 to 52.

Edition F * IO-Link has been added as a protocol for the compact type EXW1 series wireless remote.

* The number of pages has been increased from 52 to 60.

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

SMC Corporation

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