Wireless System

* For more information on supported models, refer to the "Specifications" page for each series.

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 EXW1	100 m	1 Mbps	2 ms
		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 Applicable to DIN rail mounting (A DIN rail adapter has been added.)



Compact Type EXW1 Series p. 14

Compatible protocols

EtherNet/IP, EtherCAT, DeviceNet, PROFINET, CC-Link, OPC UA, IO-Link

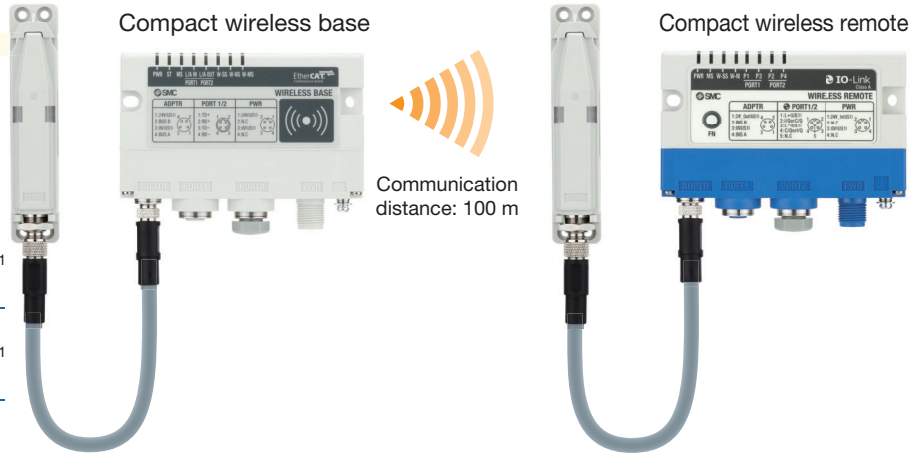
Compact and lightweight

■ Compared with the EX600-W series (remote)

Volume
Approx. 81 % reduction*1

Weight
Approx. 79 % reduction*1

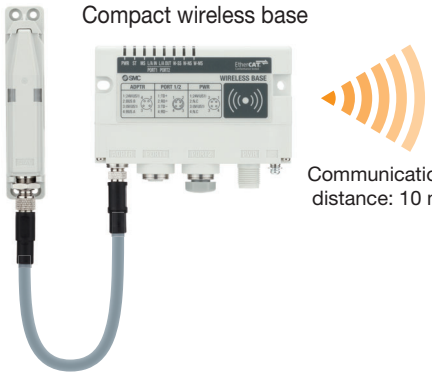
*1 For the existing remote, M12 connector/8 digital outputs specification



Modular Type EX600-W Series p. 56

Modular connection is possible.

- Up to 9 stations can be connected to the digital/analogue unit.
- Connector type: M12/M8, D-sub, Spring type terminal block





For countries/regions in which wireless is supported

This product cannot be used in countries/regions where wireless is not supported. Refer to page 69 for details on countries/regions in which the product can be used.

EXW1/EX600-W Series

CAT.EU02-28Ha-UK

Provides communication stability in FA environments

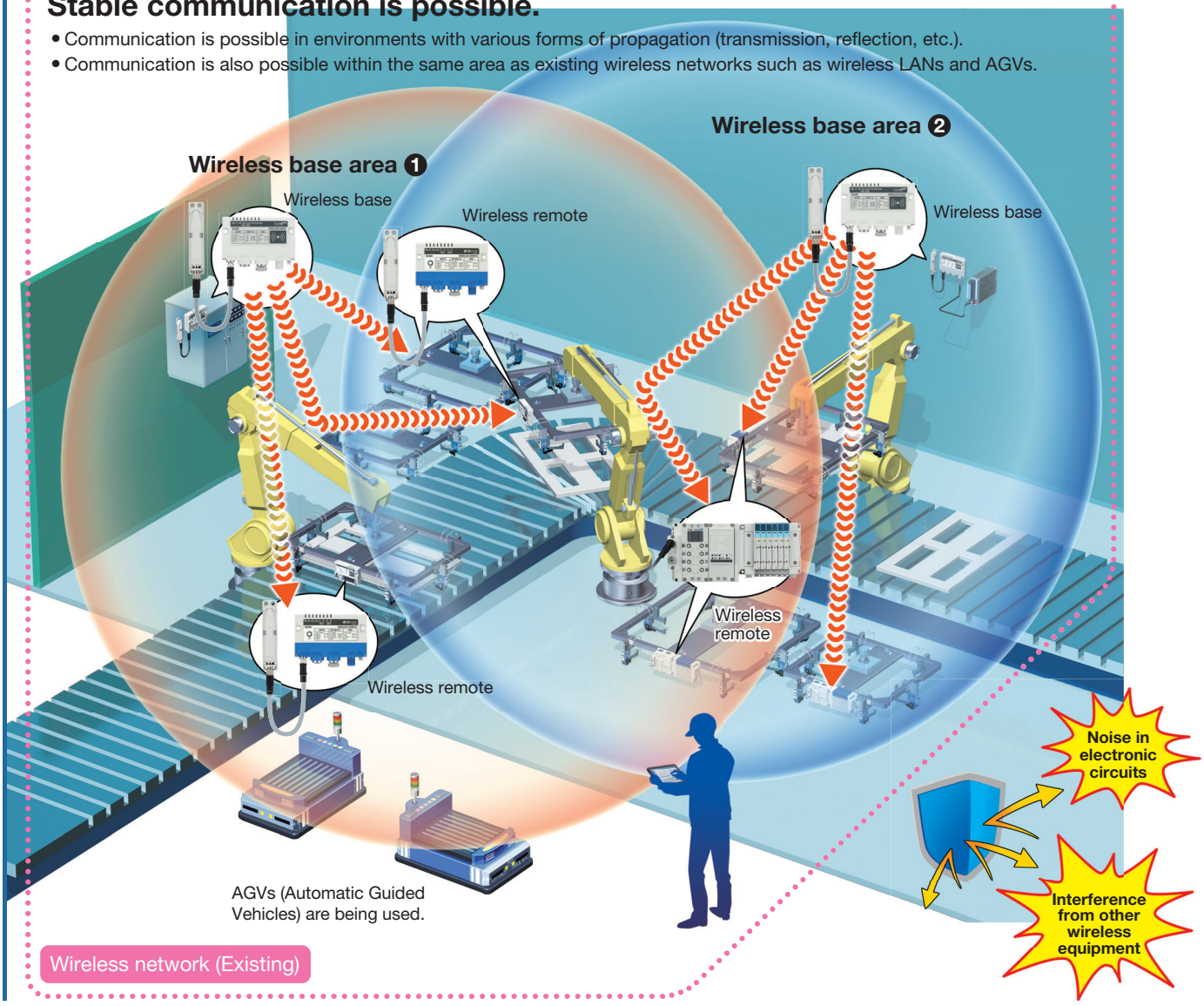
Compact EXW1 | Modular EX600-W

- 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.

* P.I.D.: Product I.D.

Stable communication is possible.

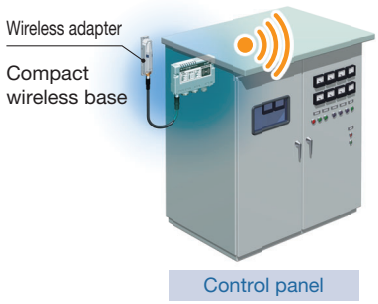
- Communication is possible in environments with various forms of propagation (transmission, reflection, etc.).
- Communication is also possible within the same area as existing wireless networks such as wireless LANs and AGVs.



Antenna support

Compact EXW1

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.

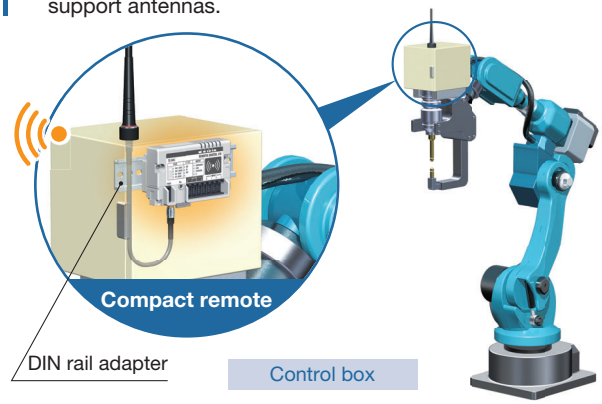


Applicable to DIN rail mounting

Compact EXW1 | Modular EX600-W

The DIN rail adapter allows for the DIN rail mounting of control panels, control boxes, etc.

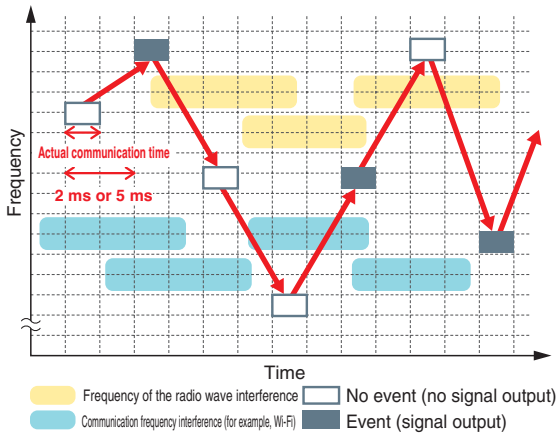
* When mounting within a panel, note that the EX600-W modular type does not support antennas.



SMC

Frequency hopping/Event communication system

Compact EXW1 | 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.

Frequency hopping cycle
2 ms∗1 **or 5 ms**

Event communication system

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.

∗1 For the EXW1 only

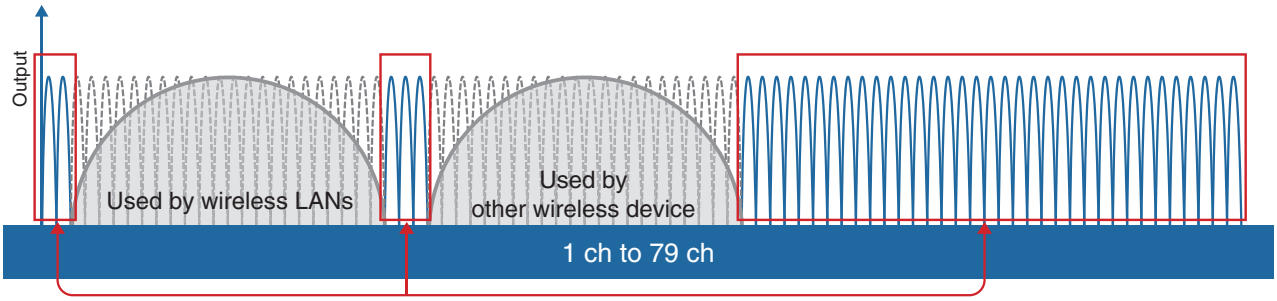
F.C.S. (Frequency channel select) function supported

Compact EXW1

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.

Symbol	Number of selectable frequency channels	Applicable countries
E	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.

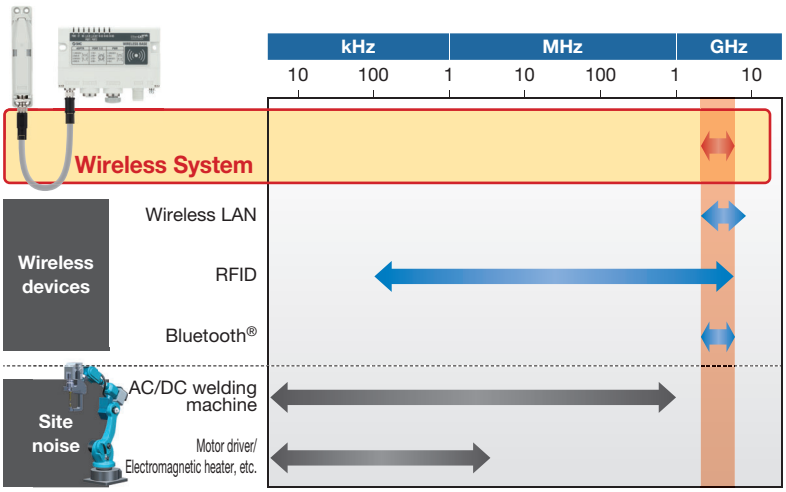


Hopping/communicating with the frequency channel within the selected red frame

Frequency band used

Compact EXW1 | Modular EX600-W

Uses the 2.4 GHz ISM frequency band

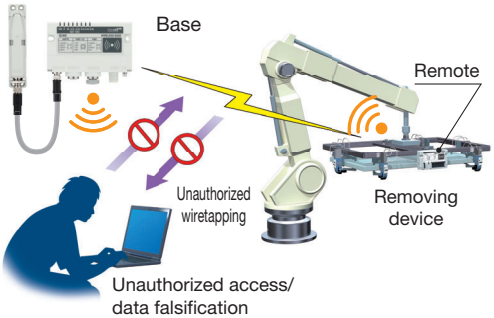


∗ ISM (Industrial, Scientific, and Medical) radio bands: Frequency bands allocated for industrial, scientific, and medical applications

High security using encryption

Compact EXW1 | Modular EX600-W

Unauthorized access from outside is prevented by using data encryption.



Remote high-speed connection

Compact EXW1 | Modular EX600-W

To start of communication: Min. **250 ms**

∗ Depends on the communication environment

■Trademark

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

Product diagnosis

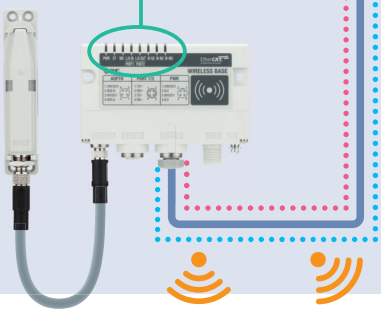
Compact EXW1 | Modular EX600-W

Diagnostic signals, **LEDs on the base/remote**, **Web function**, and **setting software (IO Configurator)** can be used for product diagnostics.



Wireless base

Compact Type **EXW1**



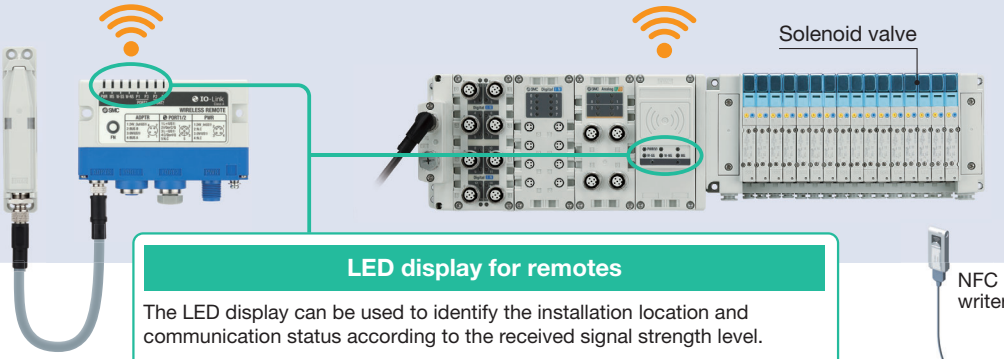
LED display for bases

The LED display can be used to identify the installation location and communication status according to the received signal strength level.

W-SS (Radio wave receiving intensity (For communication from remote to base))	
Green LED is ON.	The received power level of all remotes is 3.
Green LED flashes. (1 Hz)	There are connected remotes with a received power level of 2.
Green LED flashes. (2 Hz)	There are connected remotes with a received power level of 1.
Red LED flashes.	All the remotes that support protocol V.1.0 are not connected.
Orange LED flashes.	All the remotes that support protocol V.2.0 are not connected.
OFF	The remote module is not registered.

Wireless remote

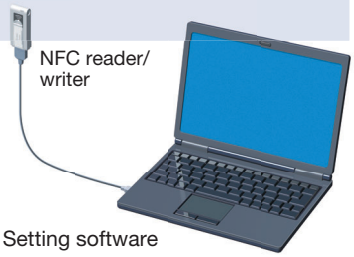
Compact Type **EXW1** Modular Type **EX600-W**



LED display for remotes

The LED display can be used to identify the installation location and communication status according to the received signal strength level.

W-SS (Radio wave receiving intensity (For communication from base to remote))			
Green LED is ON.	The received power level is 3.	Red LED flashes.	The base that supports protocol V.1.0 is not connected.
Green LED flashes. (1 Hz)	The received power level is 2.	Orange LED flashes.	The base that supports protocol V.2.0 is not connected.
Green LED flashes. (2 Hz)	The received power level is 1.	OFF	The base module is not registered.



Setting software (IO Configurator)

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

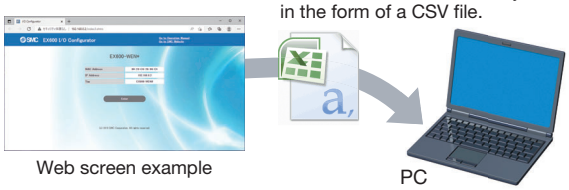
Web function (When the base and PC are connected)

Via the EXW1-BEN/BPN web screen, you can change the wireless communication 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.

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

EtherNet/IP PROFINET



Product diagnosis

Compact **EXW1** | Modular **EX600-W**

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)

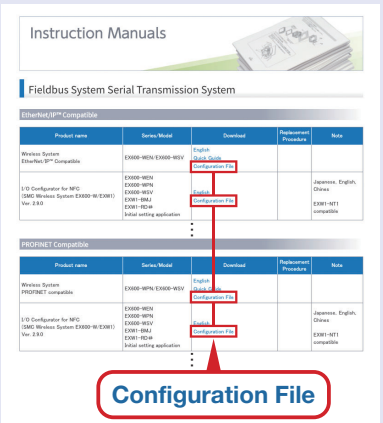
- Base communication configuration
- Setting of the I/O points for the system, base, and remote
- Pairing of the base and remote
- I/O monitoring
- Monitoring of diagnostic data

∗ Refer to the logging function.



Setting software

Download the setting software from the "configuration file."



From the SMC website

Product Information
↓
Documents/Download
↓
Operation Manuals
↓
Fieldbus System Serial Transmission System
↓
DeviceNet® Compatible
or
CC-Link Compatible
or
EtherNet/IP™ Compatible
or
EtherCAT Compatible
or
PROFINET Compatible
↓
I/O Configurator for NFC
↓
Configuration File

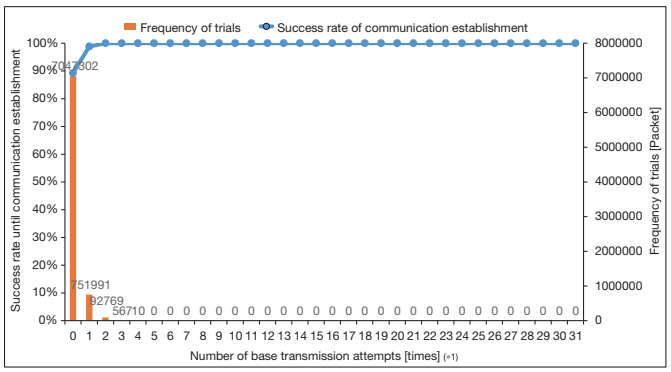
Logging function

Compact **EXW1** | Modular **EX600-W**

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.

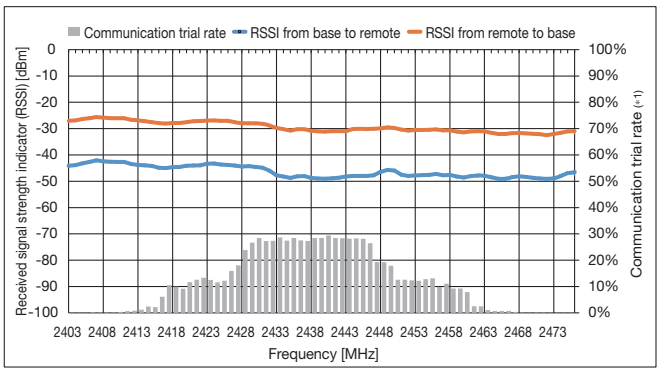


∗1 Characteristics of base-to-remote transmission packets

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



∗1 Characteristics of base-to-remote transmission packets

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.

Information | I/O monitor | Properties | Event | Wireless

ALL | CLEAR | Export | Refresh

Power on
R/W detected

Timestamp	WCh	TAG	Unit	Channel	Status
2020/12/28 10:26:25	5	EX600-WSV1	3	5	0x00000001
2020/12/26 8:00:00	3	LINE4-S5-R-HAND	1	2	0x00000002
2020/12/24 5:33:35	2	LINE4-S5-L-HAND	1	2	0x00000002
2020/12/22 3:07:10	3	LINE4-S5-R-HAND	1	4	0x00000003
2020/12/20 0:40:45	1	LINE4-S2-R-HAND	1	4	0x00000004
2020/12/17 22:14:20	5	EX600-WSV1	3	5	0x00000005
2020/12/15 19:47:55	4	LINE4-S3-R-HAND	3	5	0x00000006

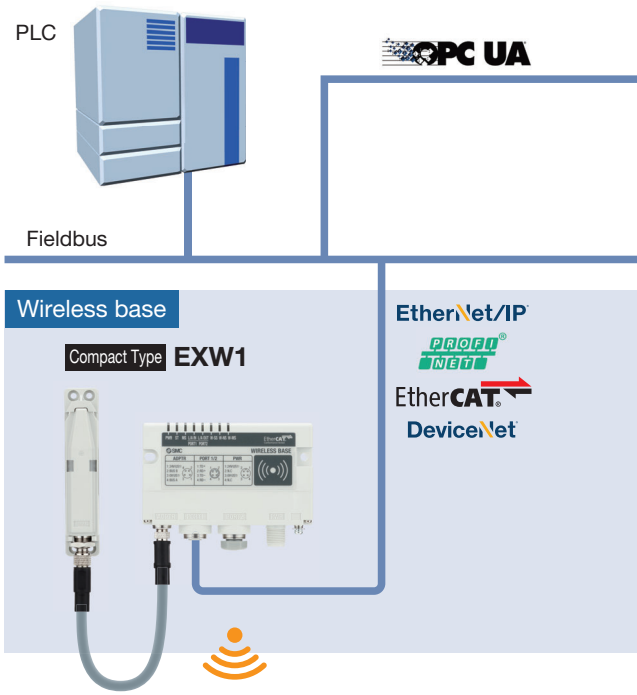
Scroll bar

System Examples

Reduced wiring of Digital-, analogue-, and IO-Link components

Air management system connection by wireless*1

*1 Using the compact type EXW1 base only



Wireless remote

Compact Type EXW1
Digital input/output
IP20

New
IP67

New
Compact Type EXW1
Analogue input

New
Compact Type EXW1
Valve manifold

Modular Type EX600-W
Digital/Analogue input/output
EX600 I/O unit
Remote module
Solenoid valve

Digital input devices

Auto switch

Pressure switch

Flow switch

Others
Proximity sensor
Photoelectric switch
Limit switch

Digital output devices

Valve manifold (Plug lead)

Solenoid valve

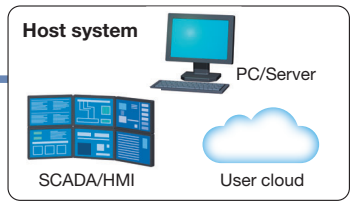
Ionizer

Others
Indicator light
Relay
Buzzer

Digital input/output devices

Vacuum unit

Electric actuator (e-Actuator)



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.)

CC-Link

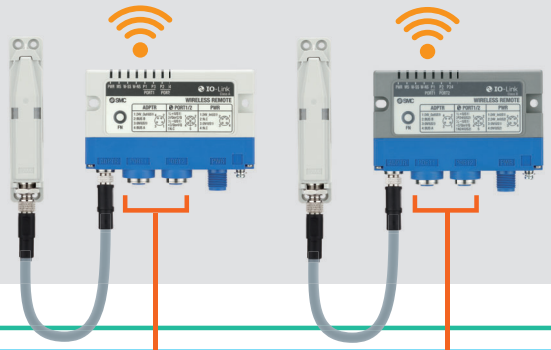
EtherNet/IP
PROFINET
EtherCAT
CC-Link IE Field



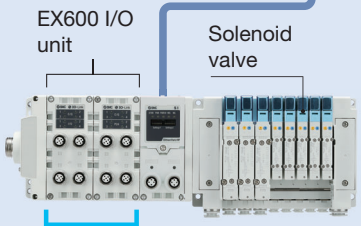
Air Management System
AMS□-SA



Compact Type **EXW1**
Port class A/B
IO-Link



Fieldbus system (Wired)
Integrated Input-Output Type **EX600**
IO-Link



Analogue input devices

Actuator position sensor



Pressure switch **Flow switch**



Analogue input sensor



IO-Link devices

Actuator position sensor



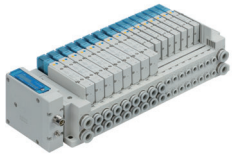
Pressure switch



Gap checker



SI unit for valve



Flow switch



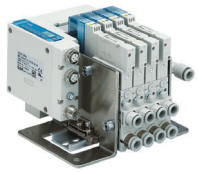
Terminal unit



Electro-pneumatic regulator
Electronic vacuum regulator



Vacuum manifold



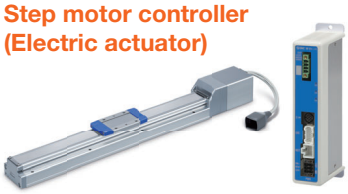
Ionizer



Vacuum unit

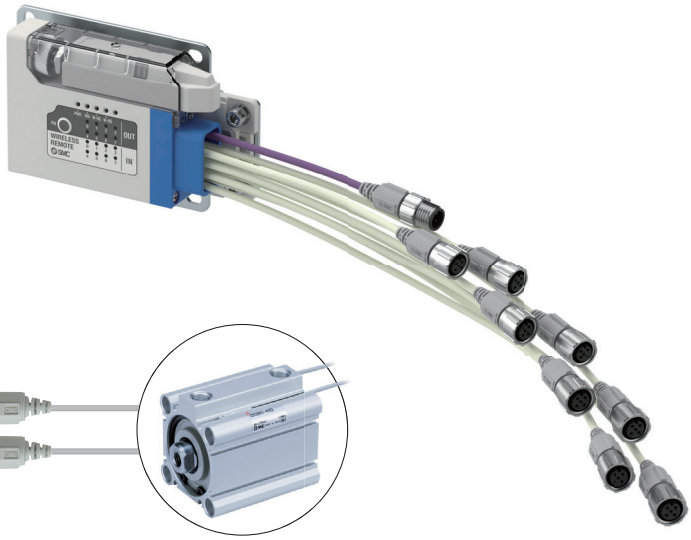


Step motor controller (Electric actuator)



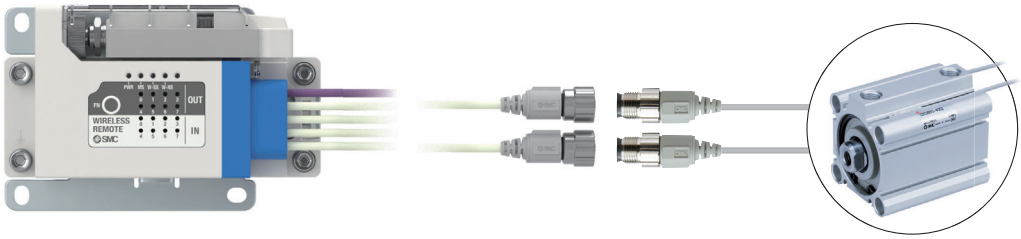
New Compact Wireless Remote Digital Input/Output p. 16 Compact EXW1

For preventive maintenance and increase productivity



■ ON/OFF time & number of operations measurement function

Measure ON/OFF times (latest value, average, maximum, and minimum) between input and I/O signal.
In addition, the number of ON/OFF operations of I/O can be turned measurement.
Measurement function can be determined when and where to perform maintenance.
Supports preventive maintenance and increase of productivity to utilize data for solenoid valve operation frequency and cylinder operating time by auto switch.



■ Log function

A threshold is turned set-up setting, and data that is out of the threshold can be saved as a log in ON/OFF time measurement function.
Data supports preventive maintenance and increase of productivity.
It can be saved up to 40 logs in Timer 0 to Timer 15, and the logs include the following data:

- Timer Ch No.
- Latest value
- Total number of measurements (the total number of times that the thresholds are in and out of range)
- Measurement count that the thresholds are out of range
- Time stamp

∗ Log is saved to the memory element at 60 minutes interval from the moment when power supply is turned on. No storage from the last save to power supply OFF, so caution it.

New Compact Wireless Remote Valve Manifold Compact EXW1

Lightweight and compact—easy to mount on robot hands and moving parts

Installation area **63 % reduction**

New product: 3,342 mm² Existing model: 9,052 mm²

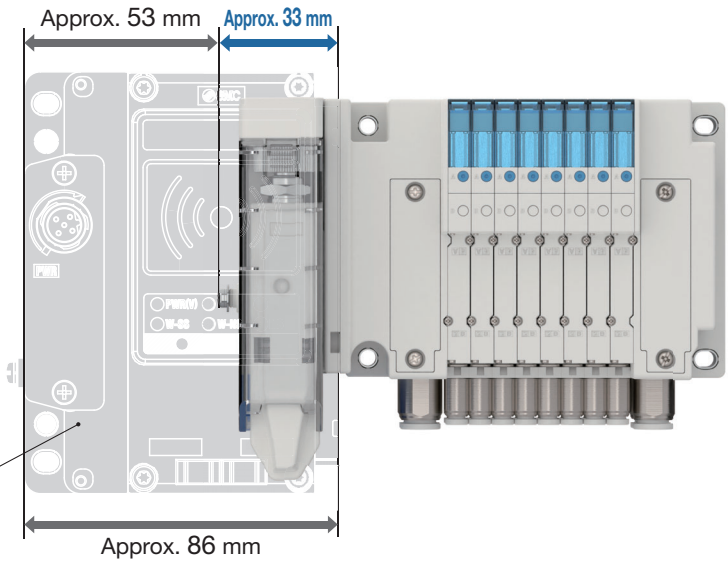
Weight **66 % reduction**

New product: 200 g Existing model: 580 g

Comparison conditions

Excludes the valve manifold
The existing model consists of a wireless remote and an end plate.

Existing model:
EX600-WSV+EX600-ED□



Connectable Solenoid Valve Series

IP67

SY3000/5000/7000

IP67 ∗1

JSY1000/3000/5000

IP67

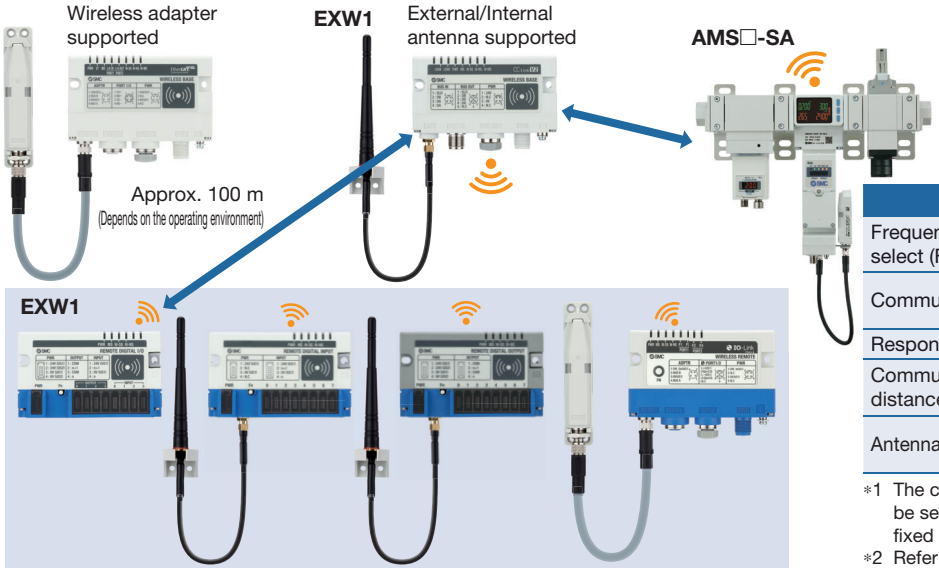
VQC1000/2000/4000/5000

∗1 The JSY1000 is IP40.

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)

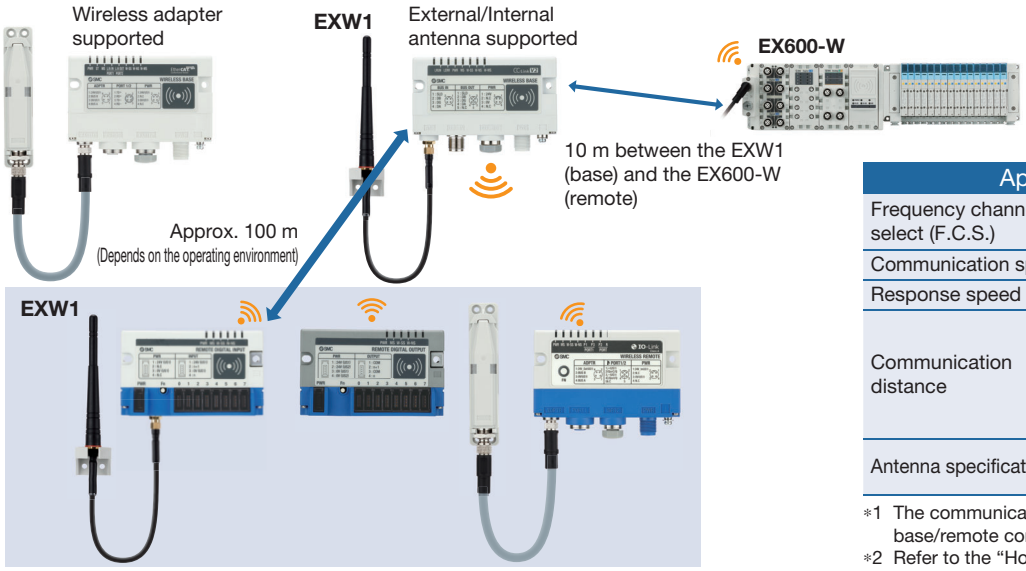


Applicable functions	
Frequency channel select (F.C.S.)	Applicable
Communication speed	Select from 1 Mbps or 250 kbps.*1
Response speed	Select from 2 ms or 5 ms.*1
Communication distance	Approx. 100 m (Depends on the operating environment)
Antenna specification*2	Wireless adapter and External/ Internal antenna supported

*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)

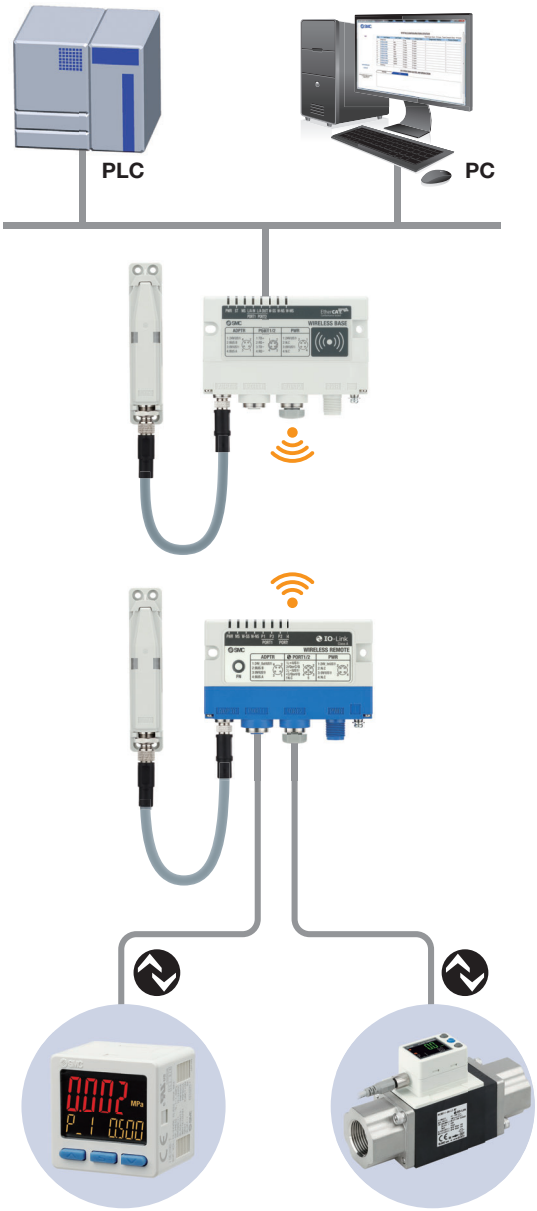


Applicable functions	
Frequency channel select (F.C.S.)	Not applicable
Communication speed	250 kbps
Response speed	5 ms
Communication distance	Approx. 100 m between the EXW1 base and remote (Depends on the operating environment) 10 m*1 between the EXW1 (base) and the EX600-W (remote)
Antenna specification*2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

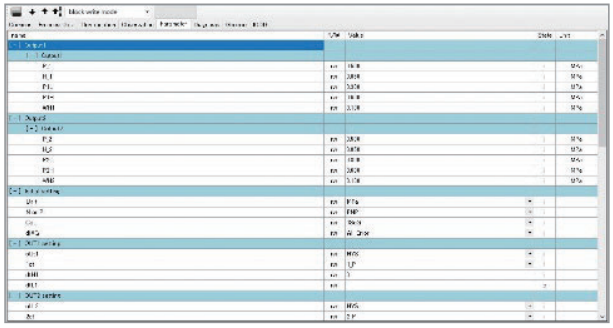
*1 The communication distance varies depending on the base/remote combination.
*2 Refer to the "How to Order" section.

The data can be accessed from via PC (IO-Link setting tool).

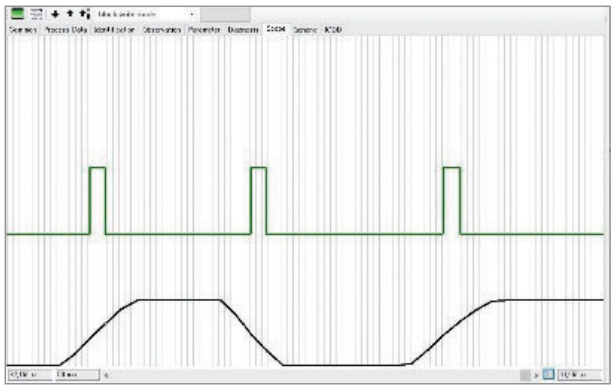
Compact
EXW1



Setting screen



Monitoring screen



IO-Link devices can be set and monitored from a PC without going through a PLC.

- Process data
- Device parameters
- Device information
- Device diagnosis

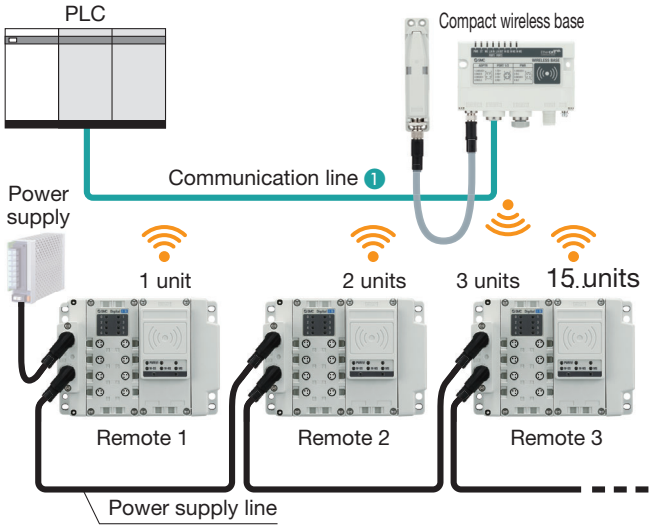
* The IO-Link setting tool (IO-Link Device Tool) is a software used for the setting and monitoring of IO-Link unit/device.
  · A setting tool compatible with the IO-Link units of every manufacturer is used for the SMC EXW1 series and EX600 series IO-Link unit. (IO-Link Device Tool V5-PE (V5 or later only) manufactured by TMG Technologie und Engineering GmbH (hereinafter referred to as TMG))
  · It can be downloaded for free from TMG's website. However, to use it for more than 30 days, a license key for the IO-Link Device Tool is required. (Refer to page 54 for details.)

Wiring material cost and installation time can be reduced.*1

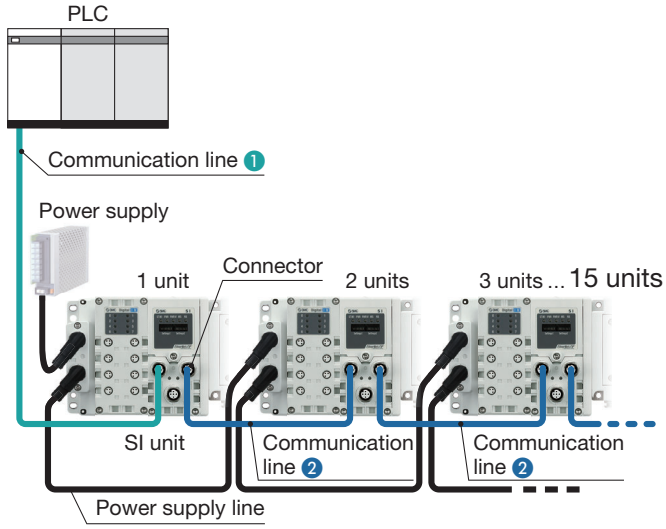
Compact EXW1 | Modular EX600-W

*1 For the EX600-W modular type

Wireless System



Existing (Wired) System



SI unit: Comparison when 15 units are connected	Number of communication devices	Communication line		Communication connectors required
		1	2	
Wireless system	Base: 1 unit Remote: 15 units	1 line (Connector at one end)	—	1 location
Existing (Wired) system	SI unit: 15 units	1 line (Connector at one end)	14 lines (Connector at both ends)	29 locations

Interchangeability maintained

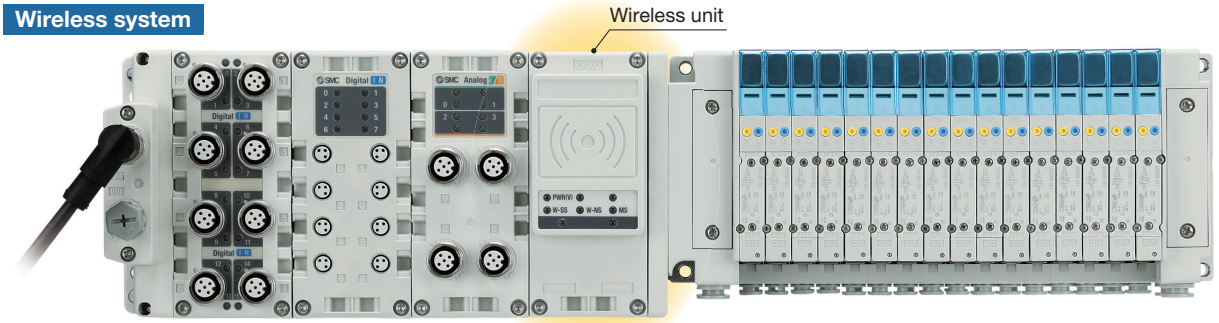
Modular EX600-W

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 remote module is limited to 128 points.

Wireless system



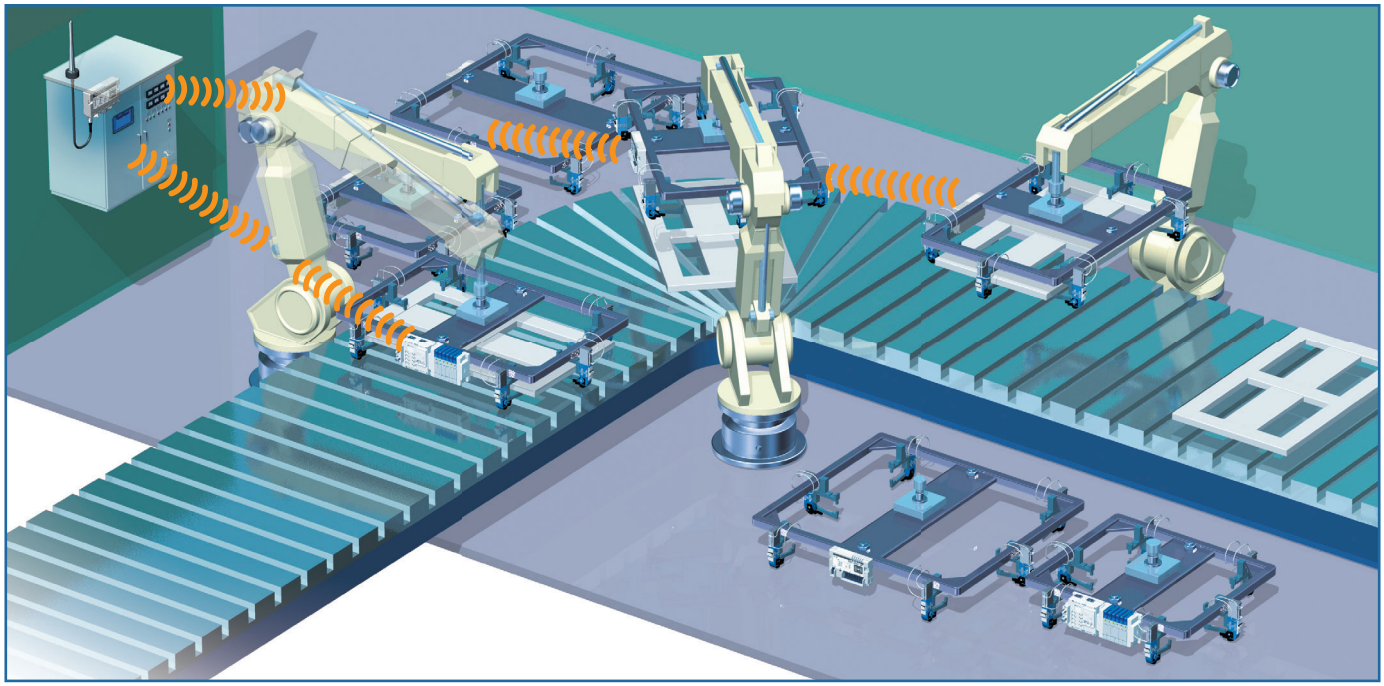
Wired system



Application Examples

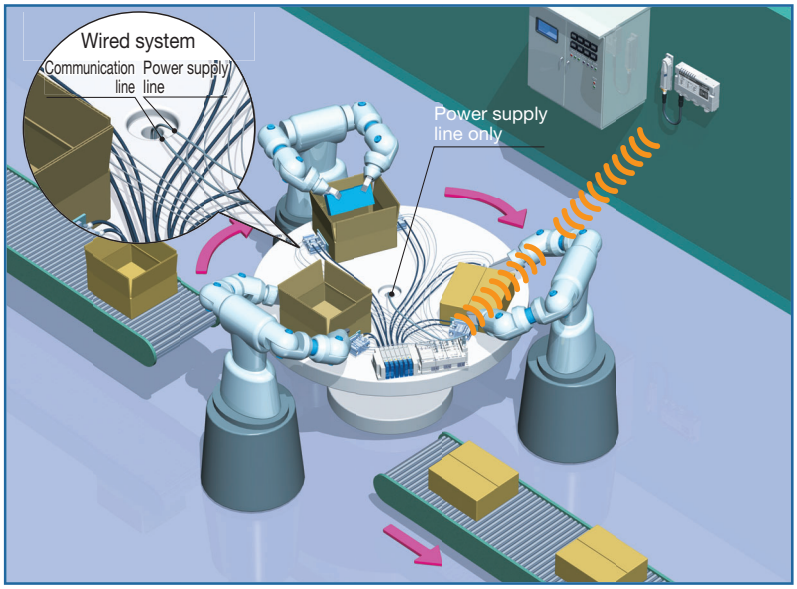
For tool changing

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



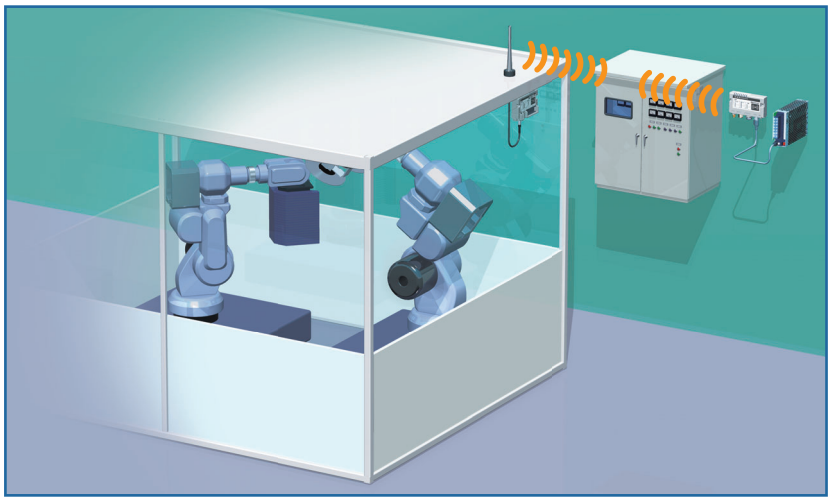
For rotary tables

- 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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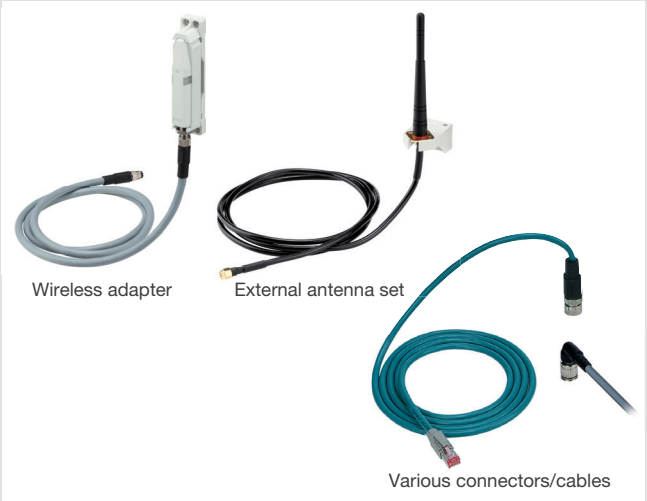
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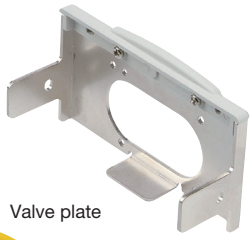
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Valve plate



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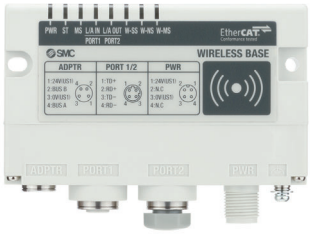
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Wireless System
Compact Type
EXW1 Series

How to Order

Compact Wireless Base

EtherCAT
EtherNet/IP
PROFINET
DeviceNet



EXW1 – B EC A C □

Base

Communication protocol

Symbol	Protocol
EC	EtherCAT
EN	EtherNet/IP™
PN	PROFINET
DN	DeviceNet®

Antenna specification for wireless communication∗1

Symbol	Antenna specification
C	Wireless adapter

Connector

Symbol	Connector interface
A	M12

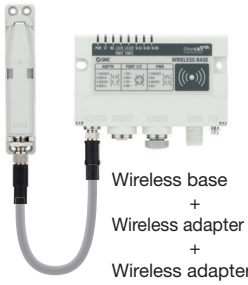
OPC UA Compliant

Symbol	OPC UA Compliant
–	•
1∗2	○

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

∗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.
∗ 1 seal cap (for an M12 connector) is included with the product.
∗ For DIN rail mounting, order the DIN rail adapter separately.
∗ Prepare DIN rail by user.

Components



Wireless base
+
Wireless adapter cable
+
Wireless adapter

Wireless Adapter



EXW1 – A1 1 N

Wireless adapter

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 (Analogue input) (EXW1-RAX□) • Remote (Digital input/output) (EXW1-RD□G□) • Remote (Valve manifold) (EXW1-RDY□□M□)

Frequency channel selection

Symbol	Number of selectable frequency channels	Applicable countries
E	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 69.

∗ 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.

Wireless Adapter Cable

EXW1 – AC001-SAPU

Shape & cable length

Symbol	Mounting image	Cable length	Secondary battery compatible
AC001-SAPU 		100 mm	Yes
AC1-X1 		300 mm	–
AC030-SSPS 		2950 mm	Yes

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

How to Order

Compact Wireless Base (CC-Link)

EXW1 – B MJ A B E





External antenna set

Compact wireless

Base

Communication protocol

Symbol	Protocol
MJ	CC-Link

Connector

Symbol	Connector interface
A	M12

Frequency channel selection

Symbol	Number of selectable frequency channels	Applicable countries
E	Min. 5/Max. 79 channels	Radio Law certified countries other than the U.S., Canada, South Korea, Brazil, Argentina, and Mexico
N	Min. 15/Max. 79 channels	Radio Law certified countries including the U.S., Canada, South Korea, Brazil, 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 69.

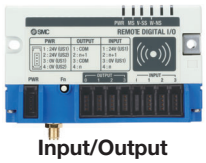
Antenna specification for wireless communication

Symbol	Antenna specification∗3
A∗4	Internal antenna
B∗5, ∗6	External antenna

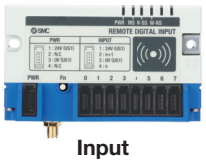
∗ 1 seal cap (for an M12 connector) is included with the product.
∗ For DIN rail mounting, order the DIN rail adapter separately.
∗ Prepare DIN rail by user.

Compact Wireless Remote (Digital Input/Output/e-CON)

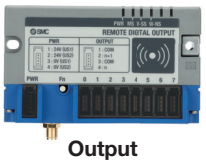
EXW1 – R D M P E3 B E



Input/Output



Input



Output



External antenna set

Compact wireless

Remote

Type

Symbol	Description
D	Digital

Type

Symbol	Description
X	Input
Y	Output
M	Input/Output

Polarity

Symbol	Description
P	PNP
N	NPN

Frequency channel selection

Symbol	Number of selectable frequency channels	Applicable countries
E	Min. 5/Max. 79 channels	Radio Law certified countries other than the U.S., Canada, South Korea, Brazil, Argentina, and Mexico
N	Min. 15/Max. 79 channels	Radio Law certified countries including the U.S., Canada, South Korea, Brazil, 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 69.

Antenna specification for wireless communication

Symbol	Antenna specification∗3
A∗4	Internal antenna
B∗5, ∗6	External antenna

Connector and number of points/ports

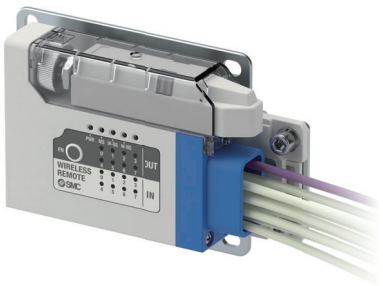
Symbol	Description	
	Connector	Number of points/ports
E3∗1	e-CON	Input: 8 inputs/ Output: 8 outputs
E4∗2	e-CON	16 points

∗1 Can be selected with type "M"
∗2 Can be selected with types "X" and "Y"

∗3 The antenna specification selected cannot be changed after purchase.
∗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 specification.
∗ For DIN rail mounting, order the DIN rail adapter separately.
Prepare DIN rail by user.

How to Order

Compact Wireless Remote (Digital input/output/M12 Grommet)



EXW1 – R D X P G4 C 1 – E

Wireless remote

Type

Symbol	Type
D	Digital

Type

Symbol	Type
X	Input
Y	Output
M	Input/Output

Polarity

Symbol	Polarity
P	PNP
N	NPN

Connector/Number of ports

Symbol	Connector/Number of points
G3	Grommet/8 points (For type M)
G4	Grommet/16 points (For types X and Y)

Antenna specification for communication

Symbol	Connector interface
C	Wireless adapter

Bracket type

Symbol	Bracket type
1	Bracket ①
2	Bracket ② ∗ EX600-WD□A1 interchangeable bracket

Option

Symbol	Option
—	Without wireless adapter
E	With wireless adapter ① (EXW1-A11E)
N	With wireless adapter ② (EXW1-A11N)

∗ If without wireless adapter is selected, a dedicated cable for wireless adapter and wireless adapter or wireless adapter and wireless adapter cover must be ordered separately.
∗ E, N is shipped with wireless adapter and wireless adapter cover assembled.

∗ There is no seal cap (for an M12 connector) included with the product. However, a seal cap should be mounted on any unused connectors.

Compact Wireless Remote (Valve manifold)



EXW1 – R D Y P M5 C – E

Wireless remote

Type

Symbol	Type
D	Digital

Type

Symbol	Type
Y	Output

Polarity

Symbol	Polarity
P	PNP
N	NPN

Connector/Number of ports

Symbol	Connector	Number of points
M5	Valve manifold	32 points

Antenna specification for wireless communication

Symbol	Connector interface
C	Wireless adapter

Option

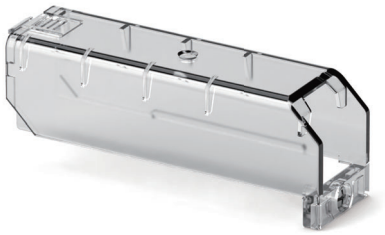
Symbol	Option
—	Without wireless adapter
E	With wireless adapter ① (EXW1-A11E)
N	With wireless adapter ② (EXW1-A11N)

∗ If without wireless adapter is selected, a dedicated cable for wireless adapter and wireless adapter or wireless adapter and wireless adapter cover must be ordered separately.
∗ E, N is shipped with wireless adapter and wireless adapter cover assembled.

Wireless Adapter Cover

EXW1 – AB6

For direct mounting of wireless adapter, a wireless adapter cover is required.

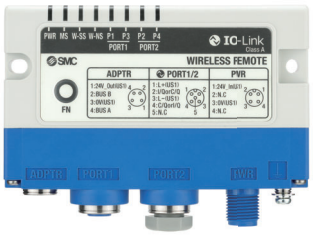


How to Order

Compact Wireless Remote (IO-Link)

EXW1 – R L A P A8 C

IO-Link



Remote

Type

Symbol	Description
L	IO-Link

Type

Symbol	Description
A	Port class A
B	Port class B

Antenna specification for wireless communication

Symbol	Connector interface
C	Wireless adapter

Connector and Number of IO-Link ports

Symbol	Connector/Number of IO-Link ports
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-ACY3) are required.
*3 Can be selected with type “B”
*4 The Y branch connector (EXW1-ACY3) 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. (For details ⇒ p. 14)
* 1 seal cap (for an M12 connector) is included with the product.
* For DIN rail mounting, order the DIN rail adapter separately.
* Prepare DIN rail by user.

● Y branch connector (Option)

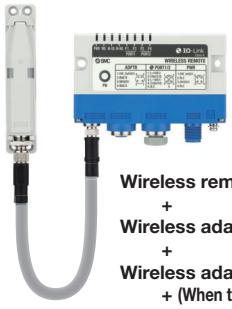
When selecting the IO-Link 4-port type for type "A," order the connectors using the part number shown below.

* When using the 4-port type, 2 Y branch connectors (EXW1-ACY3) are required.
* This cannot be used with type "B."

EXW1-ACY3



Components

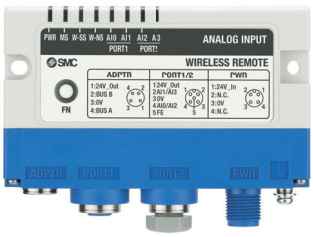


Wireless remote
+
Wireless adapter cable
+
Wireless adapter
+ (When the port class A, 4-port type is used)
Y branch connector (2 pcs.)



How to Order

Compact Wireless Remote (Analogue input)



EXW1 – R A X Z A2 C

Wireless remote

Type

Symbol	Description
A	Analogue

Type

Symbol	Description
X	Input

Polarity

Symbol	Description
Z	None

Connector and Number of points

Symbol	Connector	Number of points
A2	M12	4 points*1

*1 When using 4 points, use 2 Y-branch connectors (EXW1-ACY2). Or, use a terminal block, etc., to wire 2 devices to 1 analogue device connector.

Antenna specification for wireless communication

Symbol	Connector interface
C	Wireless adapter

* 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. (For details ⇒ p. 14)
* 1 seal cap (for an M12 connector) is included with the product.
* For DIN rail mounting, order the DIN rail adapter separately.
* Prepare DIN rail by user.

● Y branch connector (Option)

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.

EXW1-ACY2



Components



Wireless remote
+
Wireless adapter cable
+
Wireless adapter
+ (4 points type is used)
Y branch connector (2 pcs.)



NFC Reader/Writer

EXW1 – NT1

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

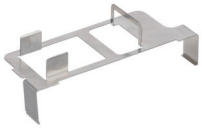


● Fixing bracket (Option)

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

EXW1-AB 2

Variations

Symbol	Description	Appearance	
		Single unit	Product mounting view
2	For the EXW1		

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 frequency channels		5 to 79 ch or 15 to 79 ch (Refer to page 2.)
Frequency channel selection		Applicable (Refer to page 2.)
Channel bandwidth		1.0 MHz
Communication speed	**V.2.0**	1 Mbps
	V.1.0	250 kbps
Communication distance		Approx. 100 m (Depends on the operating environment)
Countries in which Radio Law certified		Refer to page 69 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	12 VDC –10 % to 24 VDC +10 %
Internal current consumption	50 mA or less

General Specifications

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/s^2
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 UL (CSA) is applicable only when the product is connected to an air management hub system or an EXW1 series wireless base.
Be sure to confirm the specifications of the device to be connected in advance to see if it is UL (CSA) compliant.
∗ Air bubbles may be visible on the exterior of the product, but this does not affect the product's performance.

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)

General Specifications

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/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)

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
Device information	Vendor ID: 7 (SMC Corporation) Device type: 12 (Communication Adapter) Product code: 266
QuickConnect™ function	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	EN61131-2 compliant 5 ≤ f < 8.4 Hz 3.5 mm 8.4 ≤ f < 150 Hz 9.8 m/s^2
Impact resistance	EN61131-2 compliant, 147 m/s^2, 11 ms
Standards	CE/UKCA marking, UL (CSA)
Weight	160 g

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 ≤ 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, UL (CSA)
Weight	160 g

DeviceNet Communication Specifications (EXW1-BDNAC)

Item	Specifications
Protocol	DeviceNet® 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)
Applicable messages	Duplicate MAC ID Check Message 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

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 ≤ 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, UL (CSA)
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
Communication speed	156/625 kbps 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
Supported functions	Cyclic transmission 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.smc.eu

Electrical Specifications

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

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 ≤ 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□□E□) Digital Input/Output/e-CON

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 bandwidth		1.0 MHz
Communication speed	V.2.0	1 Mbps
	V.1.0	250 kbps
Communication distance		Approx. 100 m (Depends on the operating environment)
Countries in which Radio Law certified		Refer to page 69 for the latest information regarding in which countries the product is certified.

Electrical Specifications (Input/Output Type)

Item		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 ±10 %	
Internal current consumption		100 mA or less	
Isolation		Yes (between US1 and US2)	
Input	Number of points	8 points (2 points/connector)	
	Type	PNP (-COM)	NPN (+COM)
	Max. sensor supply current	0.3 A/connector, 1 A/unit	
	ON current	Typ. 5 mA	
	OFF current	2 mA or less	
	ON voltage	11 V or more	
	OFF voltage	5 V or less	
	Over current protection/detection function	Applicable	
Output	Number of points	8 points (2 points/connector)	
	Type	PNP (-COM)	NPN (+COM)
	Max. output current	0.3 A/point, 2 A/unit	
	Over current protection/detection function	Applicable	

Electrical Specifications (Input Type)

Item		Specifications	
		EXW1-RDXPE4□□	EXW1-RDXNE4□□
US1 (for control/input) power supply voltage range		24 VDC ±10 %	
Internal current consumption		100 mA or less	
Input	Number of points	16 points (2 points/connector)	
	Type	PNP (-COM)	NPN (+COM)
	Max. sensor supply current	0.3 A/connector, 2 A/unit	
	ON current	Typ. 5 mA	
	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)

Item		Specifications	
		EXW1-RDYPE4□□	EXW1-RDYNE4□□
US1 (for control/input) power supply voltage range		24 VDC ±10 %	
US2 (for output) power supply voltage range		24 VDC ±10 %	
Internal current consumption		100 mA or less	
Isolation		Yes (between US1 and US2)	
Output	Number of points	16 points (2 points/connector)	
	Type	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 Storage/Shipping: –20 to 60 °C
Ambient humidity	35 to 85 %RH (No condensation)
Standards	CE/UKCA marking
Vibration resistance	EN 61131-2 compliant 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-RD□□G□) Digital Input/Output/M12 Grommet

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 bandwidth		1.0 MHz
Communication speed	**V.2.0**	1 Mbps
	V.1.0	250 kbps
Communication distance		Approx. 100 m (Depends on the operating environment)
Countries in which Radio Law certified		Refer to page 69 for the latest information regarding in which countries the product is certified.

Electrical Specifications (Input/Output Type)

Item		Specifications	
Model		**EXW1-RDMPG3C□**	**EXW1-RDMNG3C□**
US1 power supply voltage range (for control/input)		24 VDC ±10 %	
US2 power supply voltage range (for driving)		24 VDC ±10 %	
Internal current consumption		100 mA or less	
Isolation		Yes (between US1 and US2)	
Input	**Number of points**	2 points/connector, 8 points/unit	
	Type	PNP	NPN
	Max. sensor supply current @25°C	0.5 A/connector, 2 A/unit*1	
	ON current	Typ.3 mA	
	ON voltage	11 V or more	
	OFF voltage	5 V or less	
	Protection	Short-circuit protection	
Output	**Number of points**	2 points/connector, 8 points/unit	
	Type	PNP	NPN
	Max. output current	0.5 A/point, 2 A/unit*1	
	Protection	Short-circuit protection	

Electrical Specifications (Input Type)

Item		Specifications	
Model		**EXW1-RDXPG4C□**	**EXW1-RDXNG4C□**
US1 power supply voltage range (for control/input)		24 VDC ±10 %	
Internal current consumption		100 mA or less	
Input	**Number of points**	2 points/connector, 16 points/unit	
	Type	PNP	NPN
	Max. sensor supply current @25°C	0.5 A/connector*2, 2 A/unit*3	
	ON current	Typ.3 mA	
	ON voltage	11 V or more	
	OFF voltage	5 V or less	
	Protection	Short-circuit protection	

Electrical Specifications (Output Type)

Item		Specifications	
Model		**EXW1-RDYPG4C□**	**EXW1-RDMNG4C□**
US1 power supply voltage range (for control/input)		24 VDC ±10 %	
US2 power supply voltage range (for driving)		24 VDC ±10 %	
Internal current consumption		100 mA or less	
Isolation		Yes (between US1 and US2)	
Output	**Number of points**	2 points/connector, 16 points/unit	
	Type	PNP	NPN
	Max. output current @25°C	0.5 A/point, 2 A/unit*1	
	Protection	Short-circuit protection	

General Specifications (Common)

Item	Specifications
Enclosure	IP67*4
Ambient temperature	Operating: –10 to 55 °C Storage/Shipping: –20 to 60 °C
Ambient humidity	35 to 85 %RH (No condensation)
Standards	CE/UKCA marking
Vibration resistance	EN 61131-2 compliant 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	Min. 350 g (Bracket 1, Without wireless adapter) Max. 550 g (Bracket 2, With wireless adapter)

*1 At an ambient operating temperature of 55°C, the maximum current is 0.5 A/Unit.
*2 At an ambient operating temperature of 55°C, the maximum current is 0.3 A/Connector.
*3 At an ambient operating temperature of 55°C, the maximum current is 0.3 A/Unit.
*4 Be sure to fit a seal cap on any unused connectors. (For details ⇒ p. 54)

Specifications: Compact Wireless Remote (EXW1-RD□□M□) Valve Manifold

Electrical Specifications

Item	Specifications
US1 (for control) power supply voltage range	24 VDC ±10 %
US2 (for output) power supply voltage range	24 VDC ±10 %
US1 (for control) current consumption	70 mA or less
US2 (for output) max. supply current	2 A
Valve output connected load	Solenoid valve with surge voltage suppressor of 24 VDC and 1.5 W or less (manufactured by SMC)

General Specifications

Item	Specifications
Enclosure	IP67
Ambient temperature	Operating: –10 to 55 °C
	Storage/Shipping: –20 to 60 °C
Ambient humidity	35 to 85 %RH (No condensation)
Standards	CE/UKCA marking
Vibration resistance	EN 61131-2 compliant $5 \leq f < 8.4$ Hz 3.5 mm $8.4 \leq f < 150$ Hz 9.8m/s^2 (Excludes the valve)
Impact resistance	EN 61131-2 compliant, 147 m/s^2, 11 ms (Excludes the valve)
Weight	200 g (With wireless adapter), 140 g (Without wireless adapter)
Accessory (Mounting screw)	2 pcs.

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 bandwidth		1.0 MHz
Communication speed	**V.2.0**	1 Mbps
	V.1.0	250 kbps
Communication distance		Approx. 100 m (Depends on the operating environment)
Countries in which Radio Law certified		Refer to page 69 for the latest information regarding in which countries the product is certified.

IO-Link Specifications

Item	Specifications	
Model	**EXW1-RLAPA8C**	**EXW1-RLBPA7C**
IO-Link port class	Class A	Class B
Communication speed	COM1 (4.8 kbps) COM2 (38.4 kbps) COM3 (230.4 kbps) Changes automatically according to the connected device	
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

Item	Specifications		
Model	**EXW1-RLAPA8C**		**EXW1-RLBPA7C**
US1 power supply voltage range (for control)	24 VDC ±10 %		
US2 power supply voltage range (for driving)	—		24 VDC ±10 %
Current consumption	100 mA or less		
Device power supply (L+)	0.5 A/Connector (1 A/Unit)		0.3 A/Connector (0.6 A/Unit)
External power supply (P24)	—		1.6 A/Connector (2 A/Unit) (Supplied from the power supply for US2)
Input			
Pin no.	2	4	4
Input type	PNP		
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		
OFF voltage	8 V or 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 Storage/Shipping: –20 °C to +60 °C
Vibration resistance (Conforming to EN61131-2)	5 ≤ f < 8.4 Hz 3.5 mm 8.4 ≤ f ≤ 150 Hz 9.8 m/s^2
Impact (Conforming to EN61131-2)	147 m/s^2, 11 ms
Mounting	M4, 2 locations
Ambient humidity	35 % to 85 % RH (No condensation)
Standards	CE/UKCA marking, UL (CSA)
Weight	150 g

Specifications: Compact Wireless Remote (EXW1-RAX□) Analogue 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/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 MΩ or more 500 VDC External terminals (including the FE terminal) and enclosure screws
Vibration resistance	Conforms to EN 61131-2 5 ≤ f < 8.4 Hz 3.5 mm 8.4 ≤ f < 150 Hz 9.8 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)

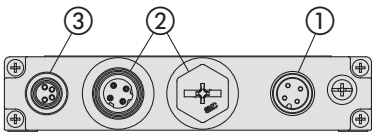
*2 Be sure to fit a seal cap on any unused connectors. (For details ⇒ p. 54)

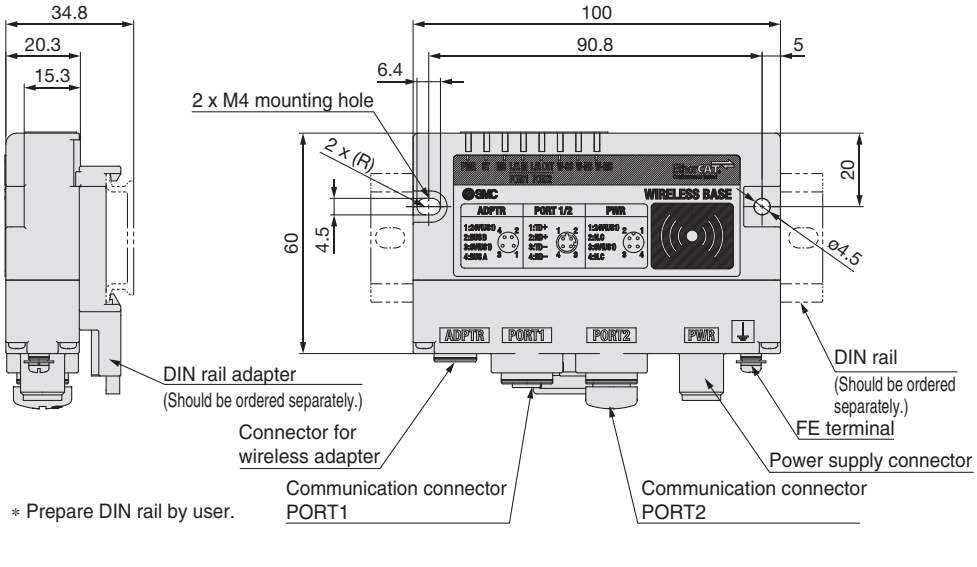
Dimensions/Parts Description



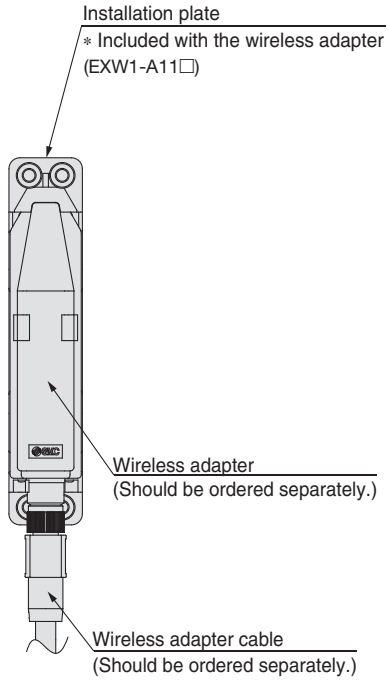
Compact Wireless Base (EtherCAT, EtherNet/IP™, PROFINET)

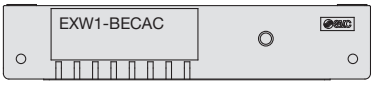
EXW1-BECAC
EXW1-BENAC1
EXW1-BPNAC1





∗ Prepare DIN rail by user.





① Power supply connector

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

② EtherCAT, PROFINET communication connector

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

② EtherNet/IP communication connector

No.	Signal	M12, 4-pin, D-coded, socket
1	TX+	
2	RX–	
3	TX+	
4	RX–	

③ Connector for wireless adapter

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

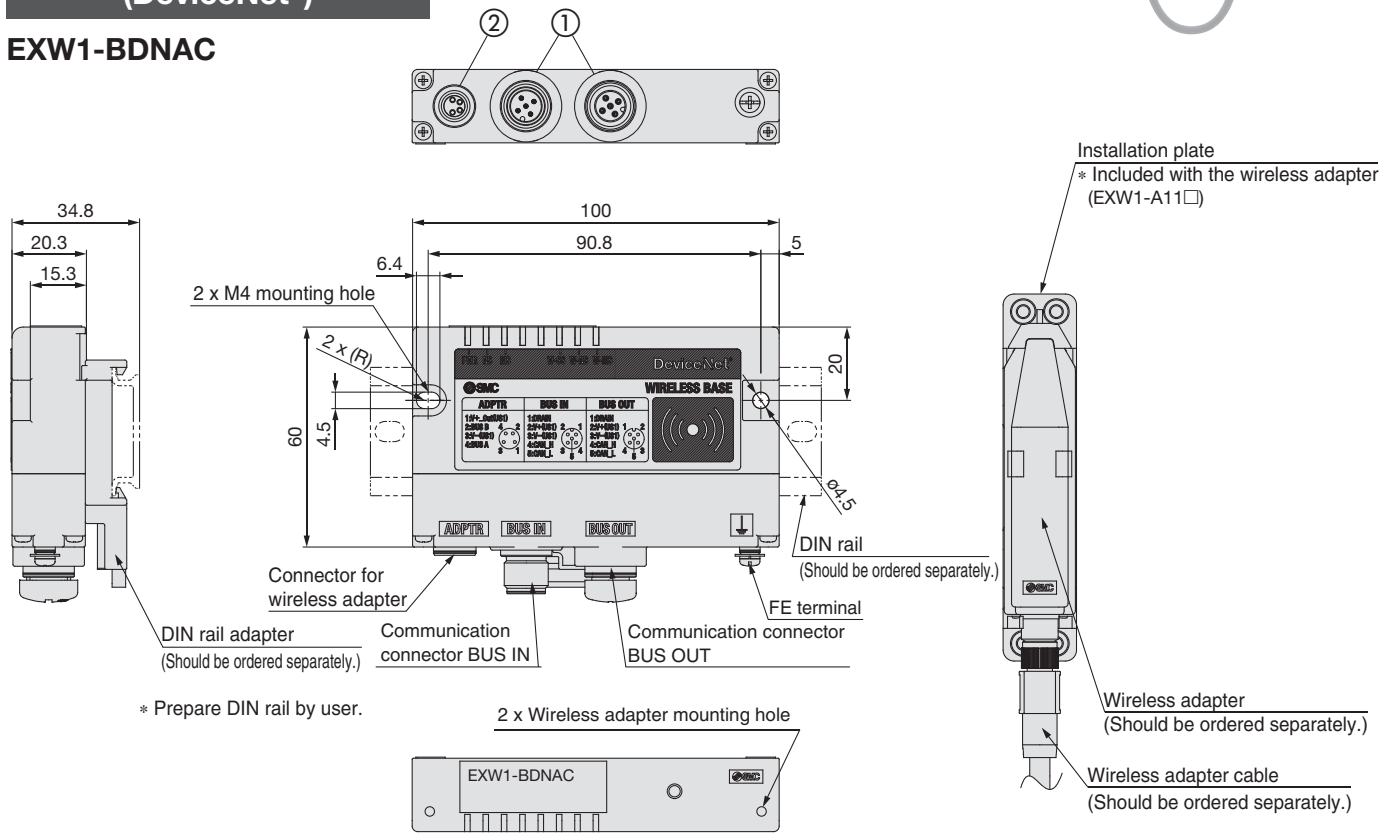
∗ The compact wireless base (EtherCAT®, EtherNet/IP™, PROFINET, DeviceNet®) is a wireless system base used in combination with a wireless adapter that has wireless communication capabilities.
When using this product, it is necessary to order the wireless adapter and wireless adapter cable separately. (For details ⇒ p. 14)
∗ Use the EXW1-NT1 for pairing with the wireless remote.



Dimensions/Parts Description

Compact Wireless Base (DeviceNet®)

EXW1-BDNAC



① DeviceNet communication connector

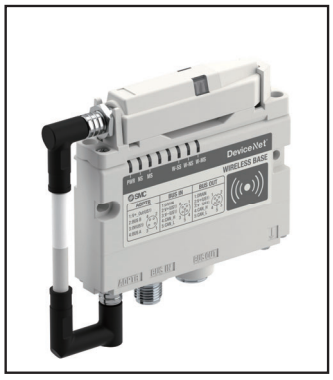
No.	BUS IN			BUS OUT		
	Signal	Description	M12, 5-pin, plug A code	Signal	Description	M12, 5-pin, socket A code
1	DRAIN	Drain	2 1 5 3 4	DRAIN	Drain	1 2 5 4 3
2	V+ (US1)	DeviceNet power supply +		V+ (US1)	DeviceNet power supply +	
3	V– (US1)	DeviceNet power supply –		V– (US1)	DeviceNet power supply –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

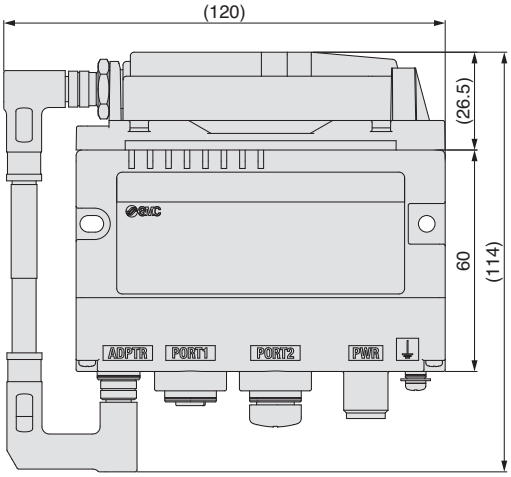
② Connector for wireless adapter

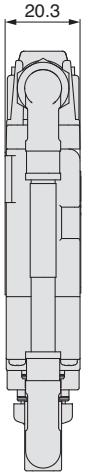
No.	Signal	M8, 4-pin, socket
1	V+_Out (US1)	4 2 3 1
2	Internal BUS B	
3	V– (US1)	
4	Internal BUS A	

∗ 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. (For details ⇒ p. 14)
∗ 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



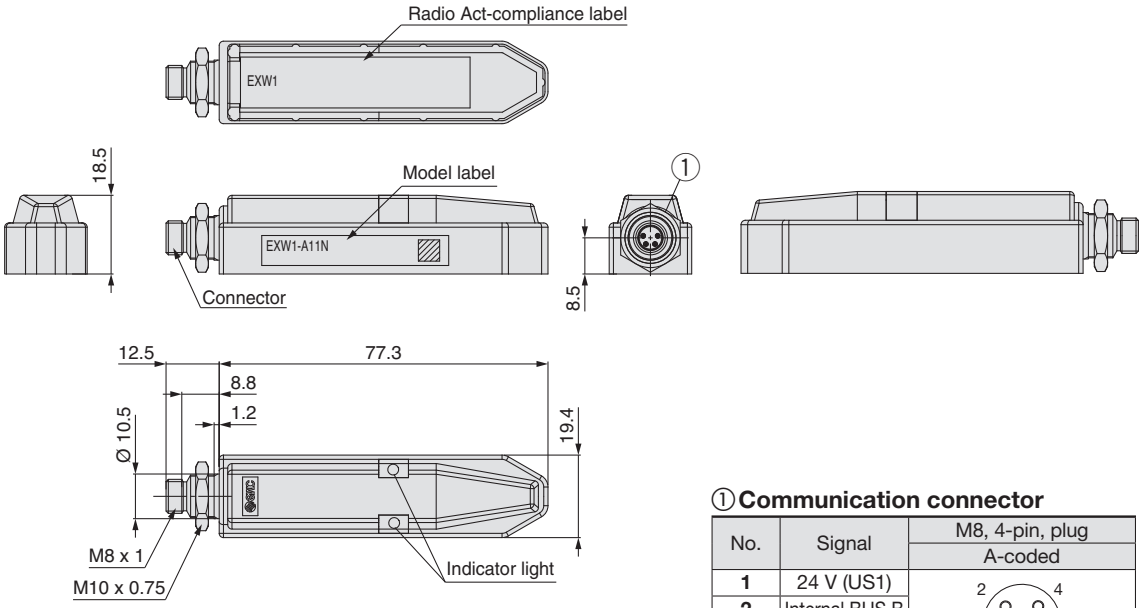




Dimensions/Parts Description

Wireless Adapter

EXW1-A11□



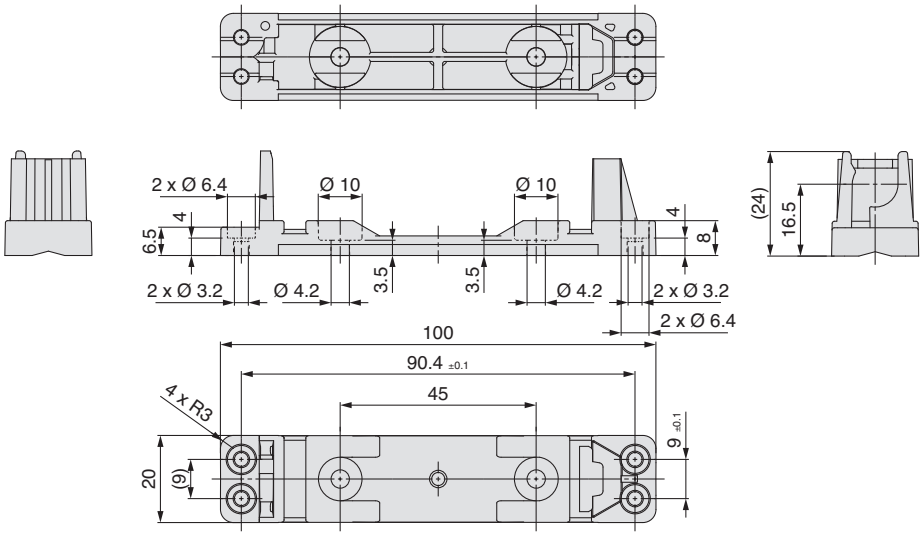
① Communication connector

No.	Signal	M8, 4-pin, plug A-coded
1	24 V (US1)	
2	Internal BUS B	
3	0 V (US1)	
4	Internal BUS A	

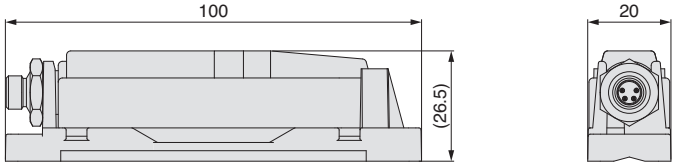
Installation Plate

EXW1-AB4 (Option for wireless adapter)

* Included with the EXW1-A11□



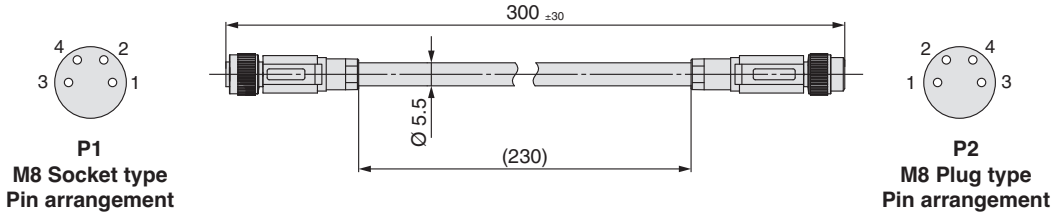
■ Dimensions when the wireless adapter and installation plate are combined



Dimensions/Parts Description

Wireless Adapter Cable

EXW1-AC1-X1

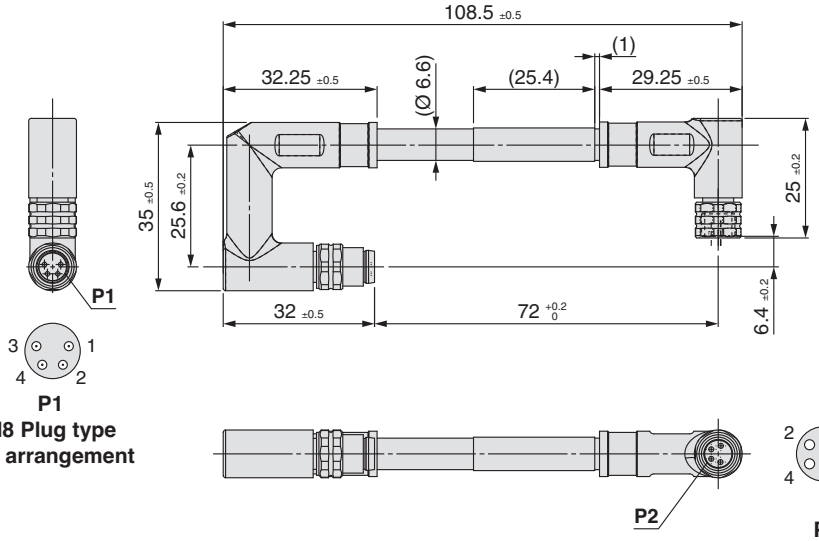


P1
M8 Socket type
Pin arrangement

P2
M8 Plug type
Pin arrangement

EXW1-AC001-SAPU

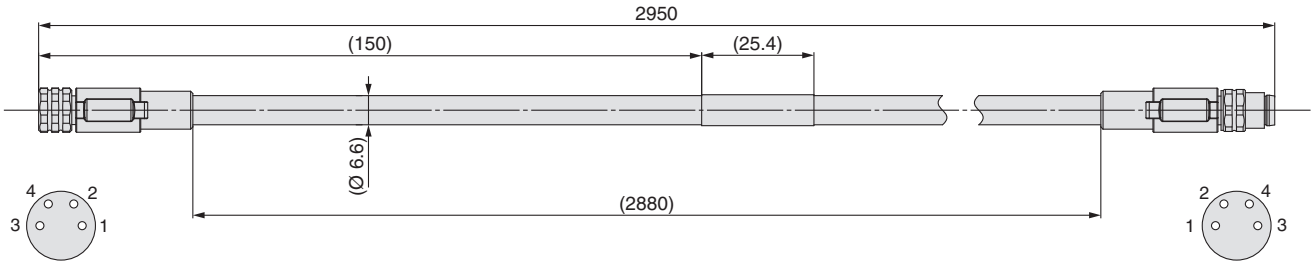




P1
M8 Plug type
Pin arrangement

P2
M8 Socket type
Pin arrangement

EXW1-AC030-SSPS



P1
M8 Socket type
Pin arrangement

P2
M8 Plug type
Pin arrangement

Dimensions/Parts Description

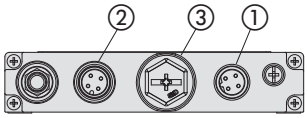
Compact Wireless Base (CC-Link)

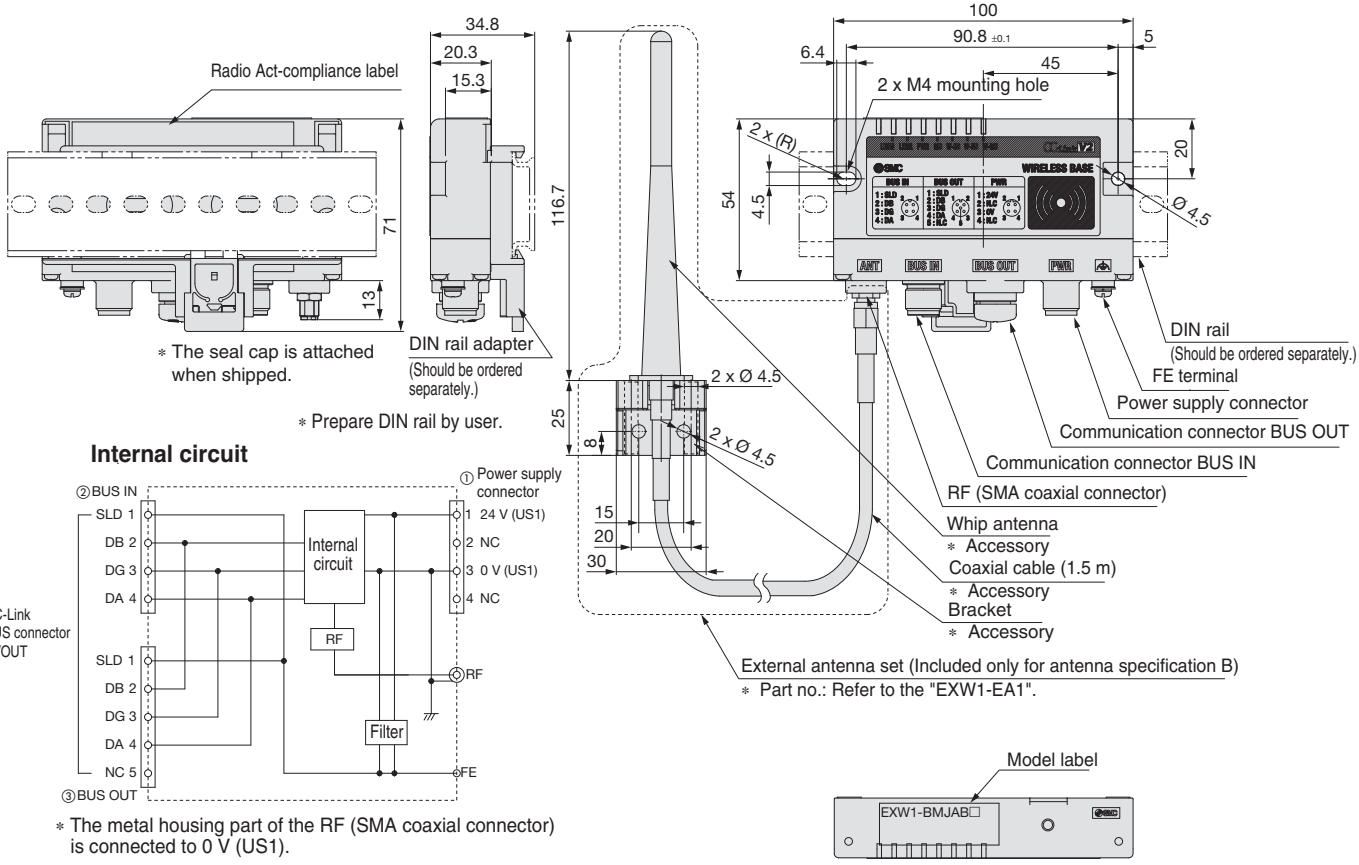
EXW1-BMJA□


Internal antenna


External antenna


External antenna set

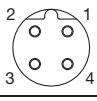




Internal circuit

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

①Power supply connector

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

②③CC-Link BUS connector

No.	②BUS IN M12, 4-pin, plug A-coded Signal	
1	SLD	
2	DB	
3	DG	
4	DA	

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

Dimensions/Parts Description

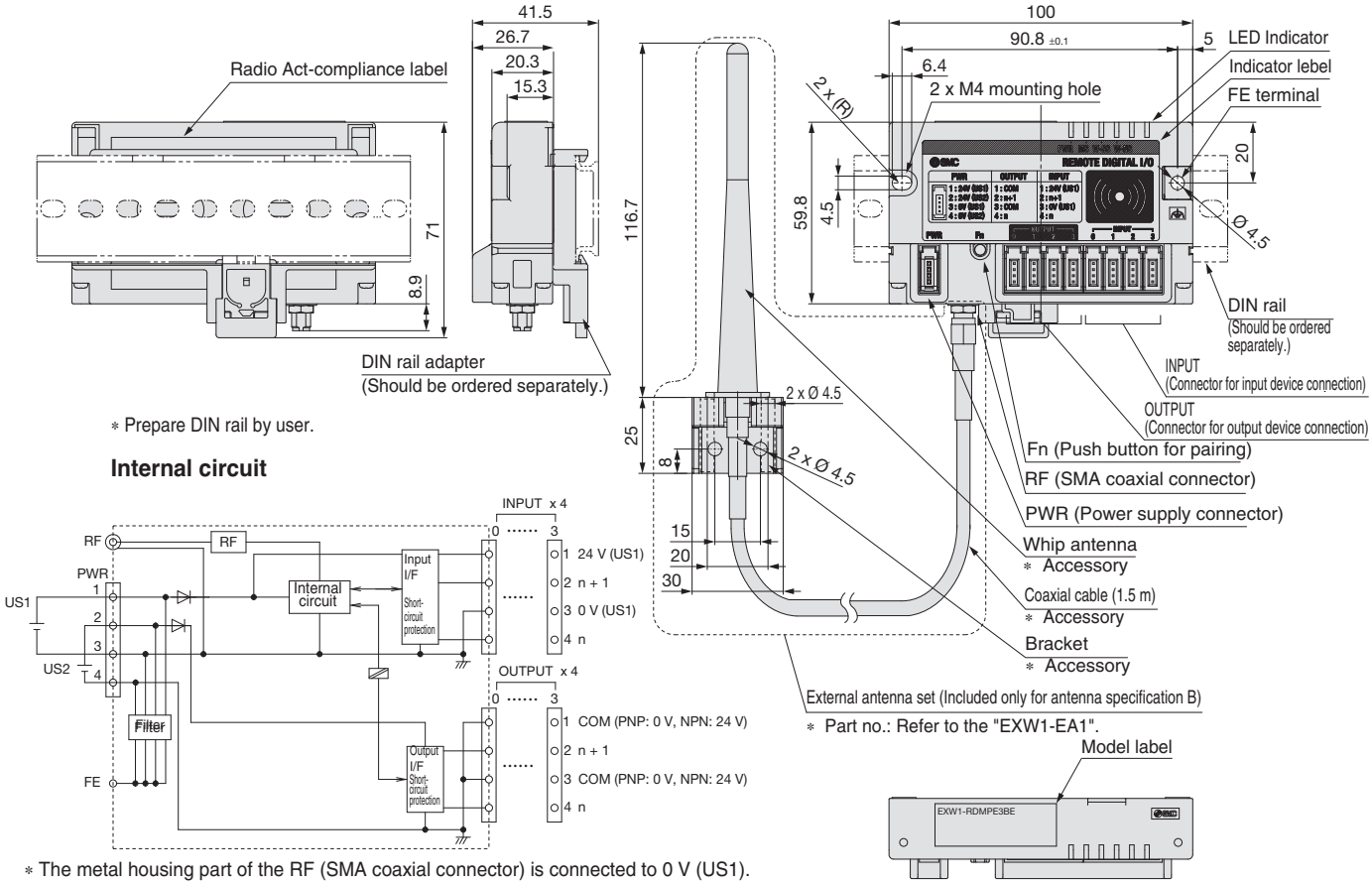
Compact Wireless Remote (Digital Input/Output/e-CON)

EXW1-RDM□□□□


Internal antenna


External antenna

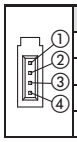

External antenna set



Internal circuit

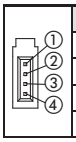
∗ The metal housing part of the RF (SMA coaxial connector) is connected to 0 V (US1).

PWR (Power supply connector)



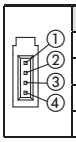
Pin no.	Description
1	24 V (US1)
2	24 V (US2)
3	0 V (US1)
4	0 V (US2)

INPUT (Connector for input device connection)



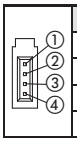
Pin no.	Description
1	24 V (US1)
2	n + 1
3	0 V (US1)
4	n

OUTPUT (Connector for output device connection, EXW1-RDMPE3□□)∗1



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
3	+COM (US2_24 V)
4	n

∗1 The specifications of pin numbers ① and ③ differ depending on the part number system.

Dimensions/Parts Description

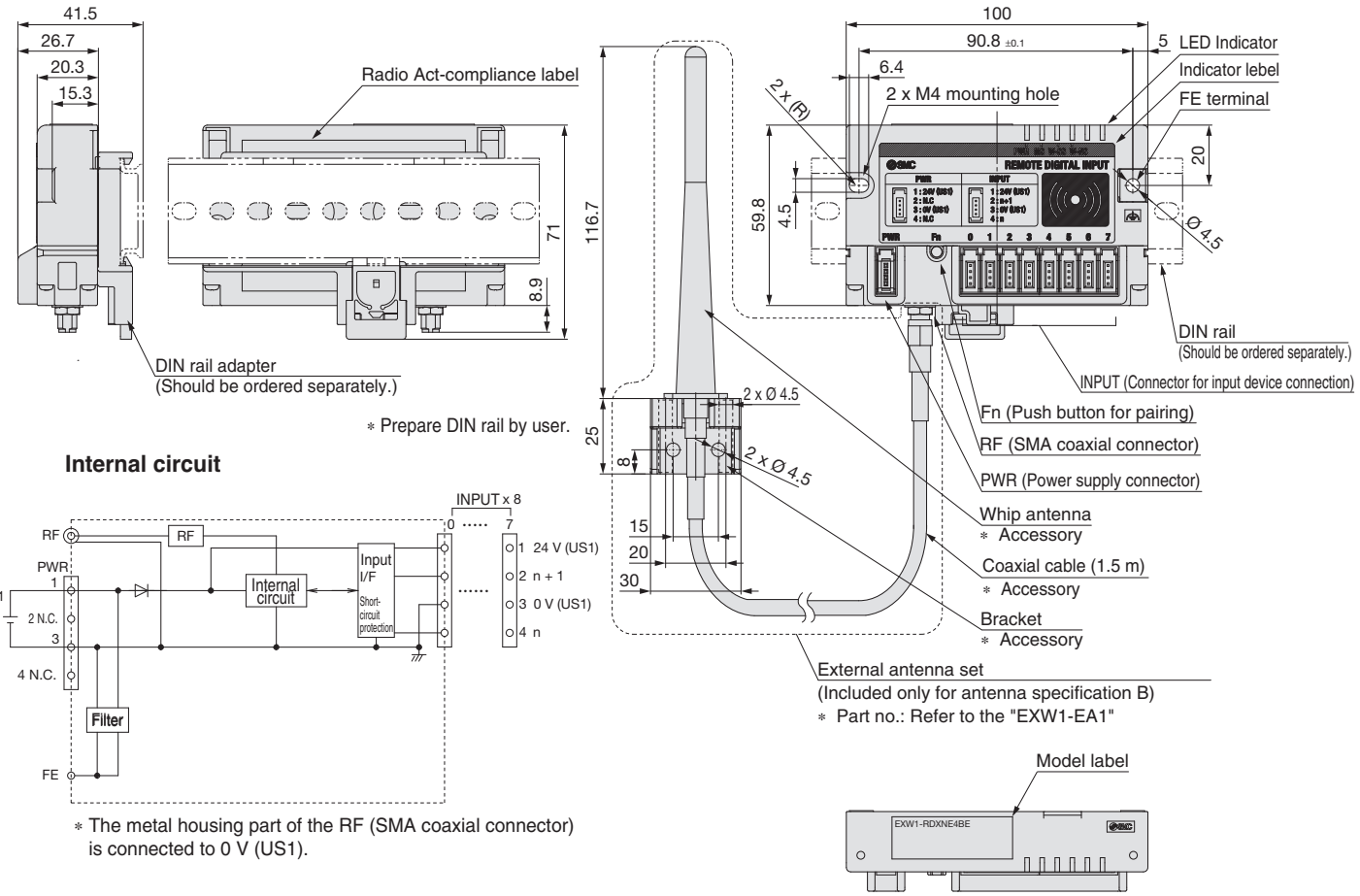
Compact Wireless Remote (Digital Input/e-CON)

EXW1-RDX□□□□


Internal antenna


External antenna


External antenna set



Internal circuit

∗ 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	N.C.
3	0 V (US1)
4	N.C.

INPUT (Connector for input device connection)

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

Dimensions/Parts Description

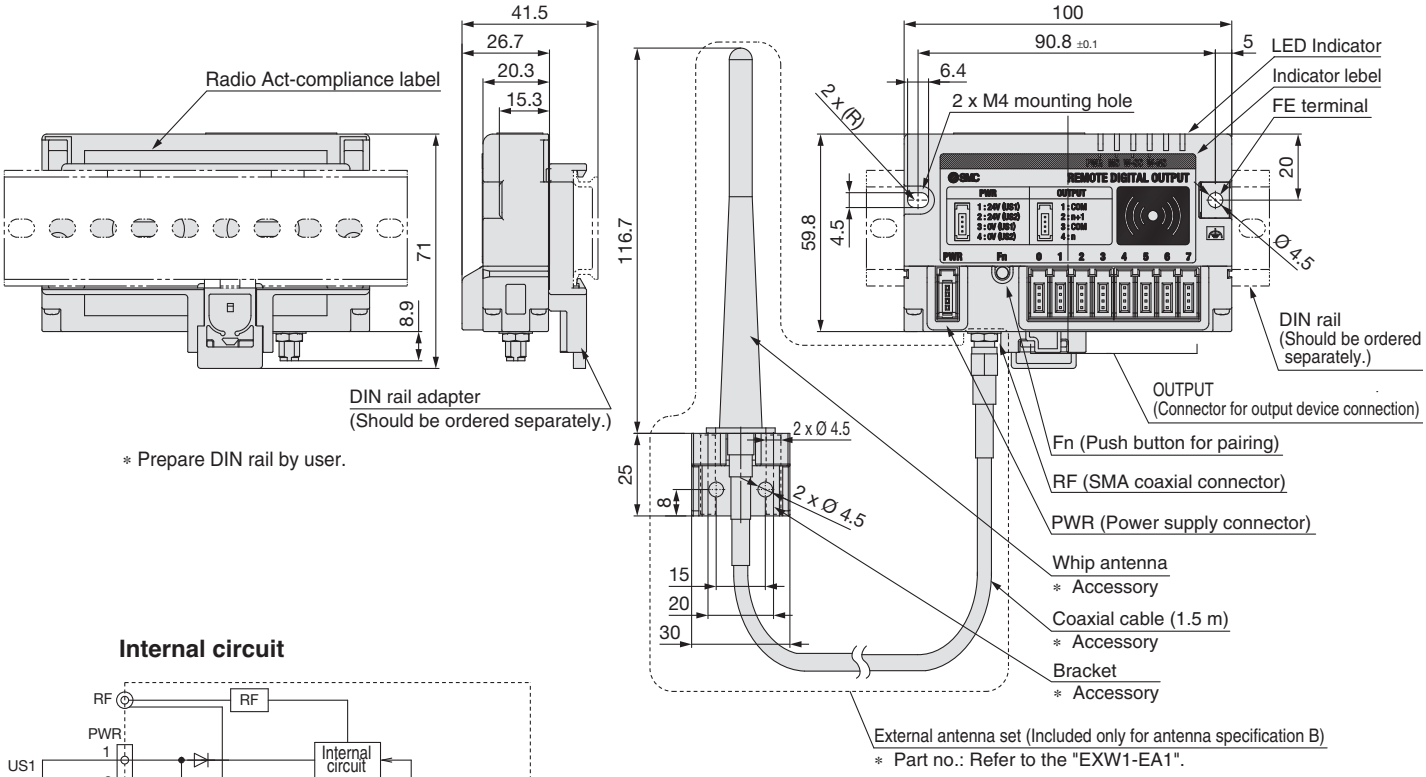
Compact Wireless Remote (Digital Output/e-CON)

EXW1-RDY□□□□


Internal antenna

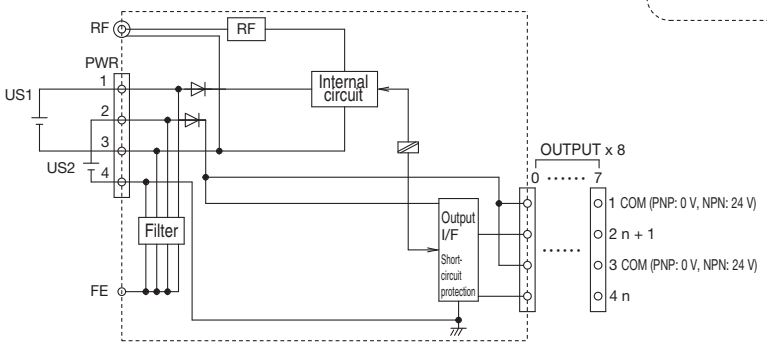

External antenna


External antenna set

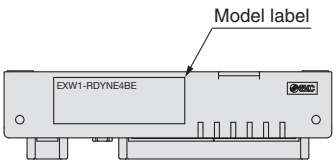


∗ Prepare DIN rail by user.

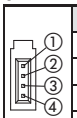
Internal circuit



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

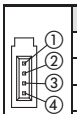


PWR
(Power supply connector)



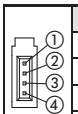
Pin no.	Description
1	24 V (US1)
2	24 V (US2)
3	0 V (US1)
4	0 V (US2)

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

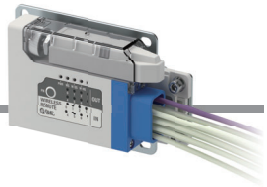


Pin no.	Description
1	-COM (US2_0 V)
2	n + 1
3	-COM (US2_0 V)
4	n

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



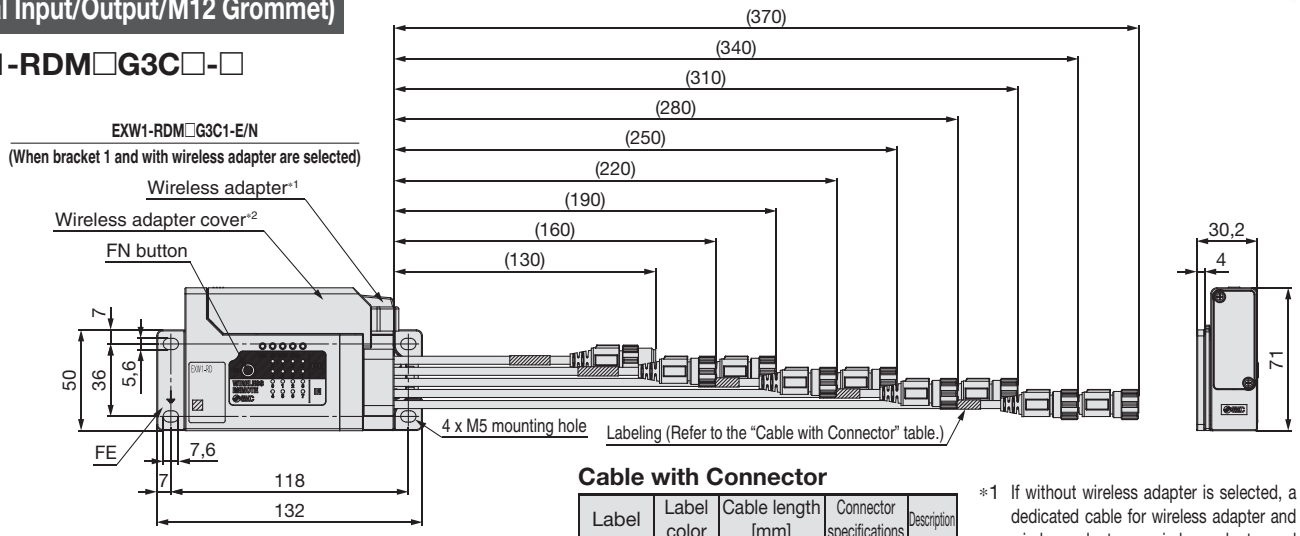
Pin no.	Description
1	+COM (US2_24 V)
2	n + 1
3	+COM (US2_24 V)
4	n

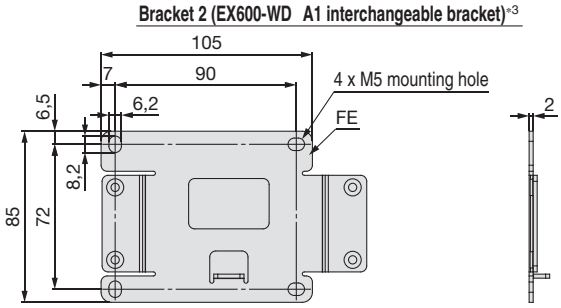


Dimensions/Parts Description

Compact Wireless Remote (Digital Input/Output/M12 Grommet)

EXW1-RDM□G3C□-□





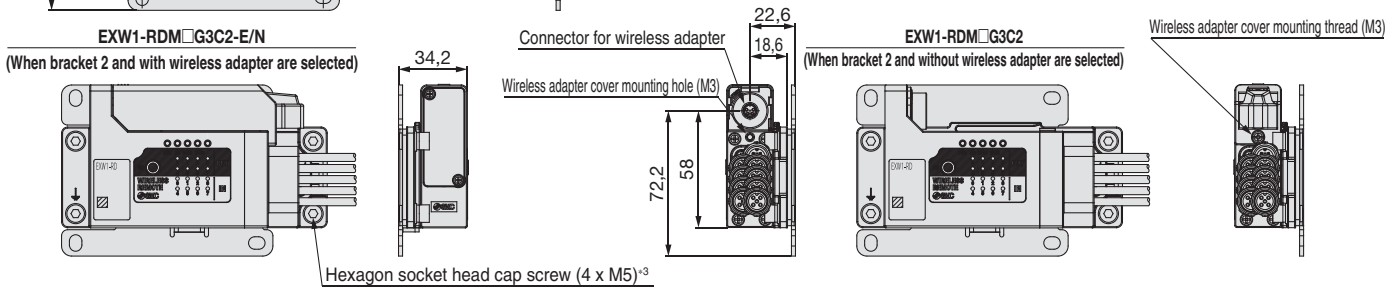
Cable with Connector

Label	Label color	Cable length [mm]	Connector specifications	Description
POWER	White	130	M12, 4-pin, plug	Power supply
6/7	Black	160	M12, 5-pin, socket	Output
4/5		190		
2/3		220		
0/1		250		
6/7	White	280		Input
4/5		310		
2/3		340		
0/1		370		

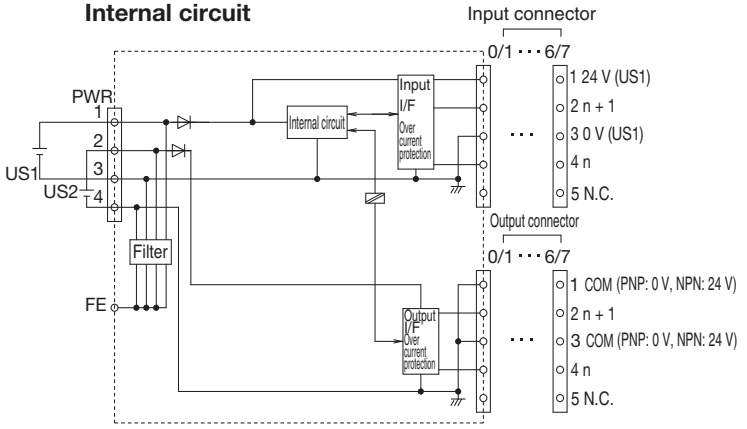
∗1 If without wireless adapter is selected, a dedicated cable for wireless adapter and wireless adapter or wireless adapter and wireless adapter cover must be ordered separately. When the type with a wireless adapter is selected, the wireless adapter and wireless adapter cover are assembled before shipping. (For details ⇒ p. 14, 16)

∗2 For direct mounting of wireless adapter, a wireless adapter cover is required.

∗3 When bracket 2 is selected, bracket 2 and 4 hexagon socket head cap screws (M5 x 1 0) with captive washers are included. However, they do not come assembled.



Internal circuit



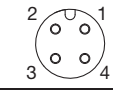
∗ Bracket 1 and 2 are FE

Connector for Wireless Adapter

Pin no.	Signal	Description	M8, 4-pin, socket
1	24 V (US1)	24 VDC (US1): Output*1	
2	Internal BUS B	For wireless adapter communication	
3	0 V (US1)	0 VDC (US1)	
4	Internal BUS A	For wireless adapter communication	

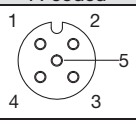
∗1 Do not input power.

Power Supply Connector (POWER)

Pin no.	Signal	Description	M12, 4-pin, plug A-coded
1	24 V (US1)	24 VDC (US1): Input*1	
2	24 V (US2)	24 VDC (US2): Input*1	
3	0 V (US1)	0 VDC (US1)	
4	0 V (US2)	0 VDC (US2)	

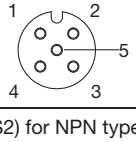
∗1 Input 24 VDC ±20 %.

Input Connector (0/1 to 6/7)

Pin no.	Signal	Description	M12, 5-pin, socket A-coded
1	24 V (US1)	24 VDC (US1): Output*1	
2	n + 1	Digital input: n + 1	
3	0 V (US1)	0 VDC (US1)	
4	n	Digital input: n	
5	N.C.	N.C.	

∗1 Do not input power.

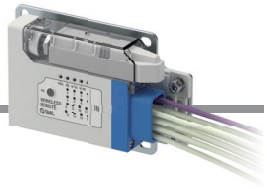
Output Connector (0/1 to 6/7)

Pin no.	Signal	Description	M12, 5-pin, socket A-coded
1	COM	Common*2	
2	n + 1	Digital output: n + 1*3	
3	COM	Common*2	
4	n	Digital output: n*3	
5	N.C.	N.C.	

∗2 0 VDC (US2) for PNP type and 24 VDC (US2) for NPN type.

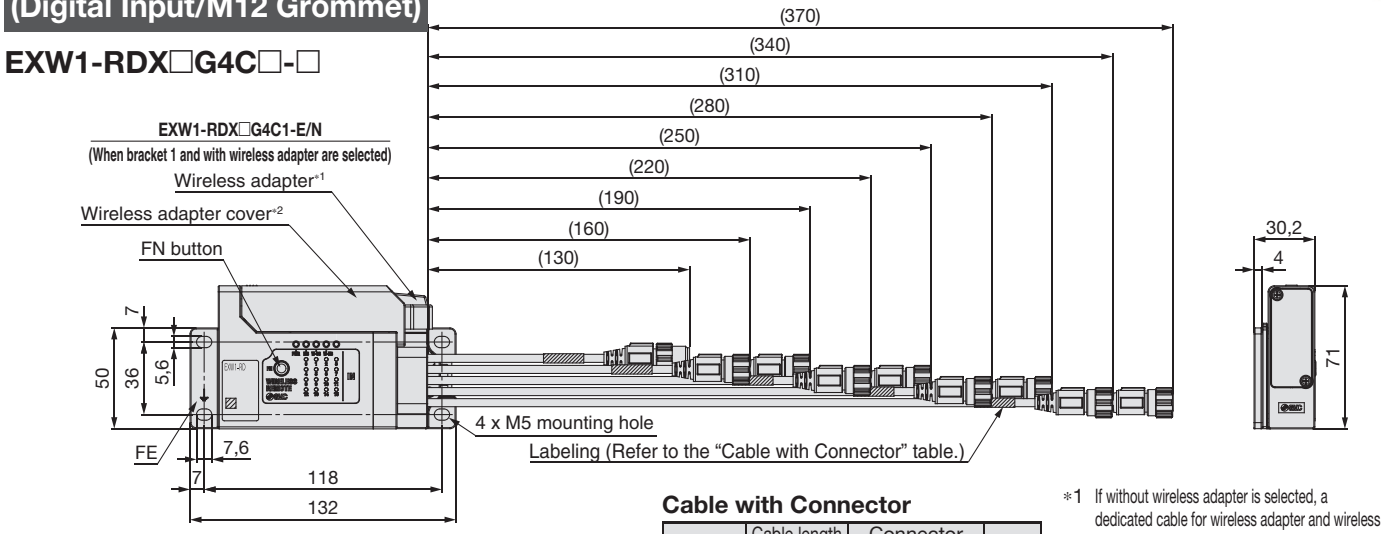
∗3 24 VDC (US2) for PNP type and 0 VDC (US2) for NPN type are output.

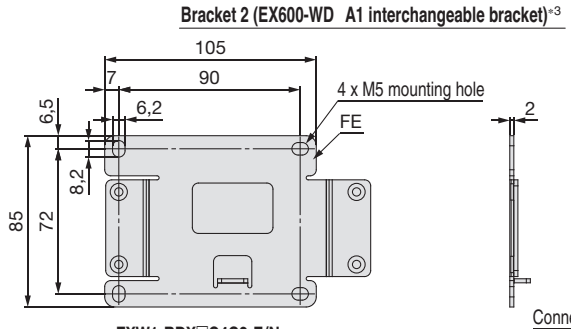
Dimensions/Parts Description



Compact Wireless Remote (Digital Input/M12 Grommet)

EXW1-RDX□G4C□-□





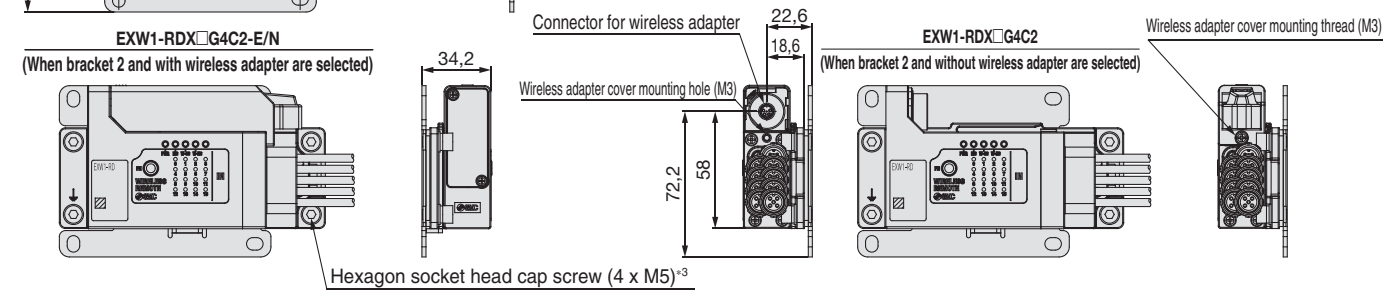
Cable with Connector

Label	Cable length [mm]	Connector specifications	Description
POWER	130	M12, 4-pin, plug	Power supply
E/F	160	M12, 5-pin, socket	Input
C/D	190		
A/B	220		
8/9	250		
6/7	280		
4/5	310		
2/3	340		
0/1	370		

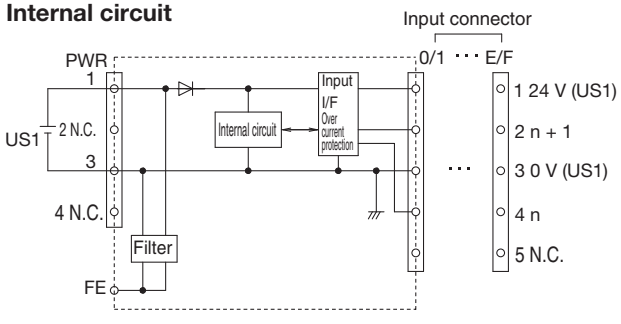
*1 If without wireless adapter is selected, a dedicated cable for wireless adapter and wireless adapter or wireless adapter and wireless adapter cover must be ordered separately. When the type with a wireless adapter is selected, the wireless adapter and wireless adapter cover are assembled before shipping.
(For details ⇒ p. 14, 16)

*2 For direct mounting of wireless adapter, a wireless adapter cover is required.

*3 When bracket 2 is selected, bracket 2 and 4 hexagon socket head cap screws (M5 x 10) with captive washers are included. However, they do not come assembled.



Internal circuit



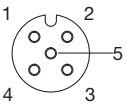
* Bracket 1 and 2 are FE

Power Supply Connector (POWER)

Pin no.	Signal	Description	M12, 4-pin, plug A-coded
1	24 V (US1)	24V DC (US1): Input*1	
2	N.C.	N.C.	
3	0 V (US1)	0 VDC (US1)	
4	N.C.	N.C.	

*1 Input 24 VDC ±10 %.

Input Connector (0/1 to E/F)

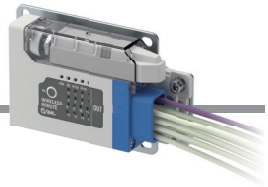
Pin no.	Signal	Description	M12, 5-pin, socket A-coded
1	24V (US1)	24 VDC (US1): Output*2	
2	n + 1	Digital input: n + 1	
3	0 V (US1)	0 VDC (US1)	
4	n	Digital input: n	
5	N.C.	N.C.	

*2 Do not input power.

Connector for Wireless Adapter

Pin no.	Signal	Description	M8, 4-pin, socket
1	24 V (US1)	24 VDC (US1): Output*1	
2	Internal BUS B	For wireless adapter communication	
3	0 V (US1)	0 VDC (US1)	
4	Internal BUS A	For wireless adapter communication	

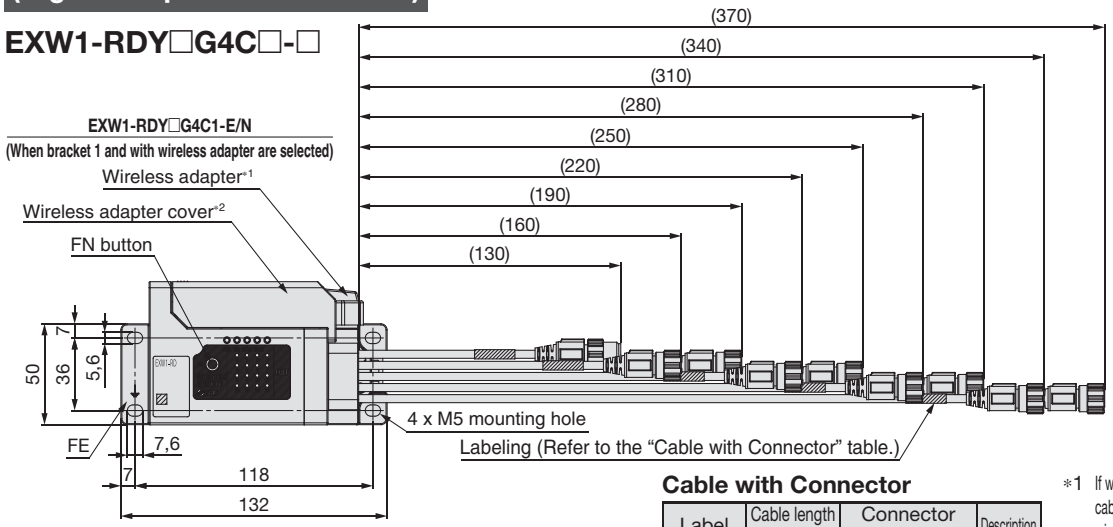
*1 Do not input power.

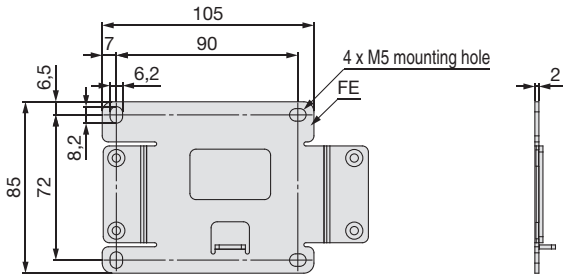


Dimensions/Parts Description

Compact Wireless Remote (Digital Output/M12 Grommet)

EXW1-RDY□G4C□-□





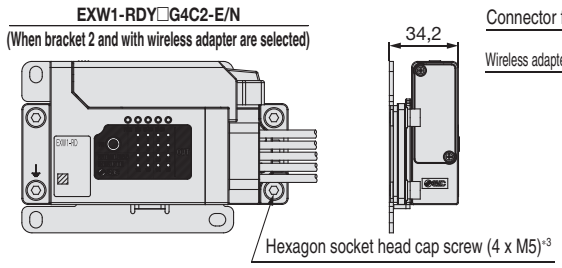
Cable with Connector

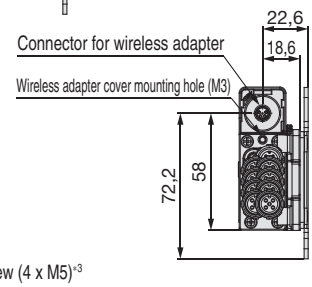
Label	Cable length [mm]	Connector specifications	Description
POWER	130	M12, 4-pin, plug	Power supply
E/F	160	M12, 5-pin, socket	Input
C/D	190		
A/B	220		
8/9	250		
6/7	280		
4/5	310		
2/3	340		
0/1	370		

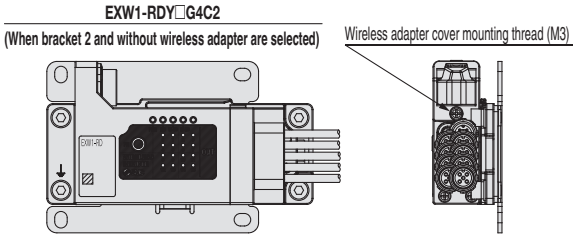
*1 If without wireless adapter is selected, a dedicated cable for wireless adapter and wireless adapter or wireless adapter and wireless adapter cover must be ordered separately. When the type with a wireless adapter is selected, the wireless adapter and wireless adapter cover are assembled before shipping.
(For details ⇒ p. 14, 16)

*2 For direct mounting of wireless adapter, a wireless adapter cover is required.

*3 When bracket 2 is selected, bracket 2 and 4 hexagon socket head cap screws (M5 x 10) with captive washers are included. However, they do not come assembled.





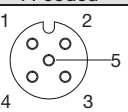


Power Supply Connector (POWER)

Pin no.	Signal	Description	M12, 4-pin, plug A-coded
1	24 V (US1)	24 VDC (US1): Input*1	
2	24 V (US2)	24 VDC (US2): Input*1	
3	0 V (US1)	0 VDC (US1)	
4	0 V (US2)	0 VDC (US2)	

*1 Input 24 VDC ±10 %.

Output Connector (0/1 to E/F)

Pin no.	Signal	Description	M12, 5-pin, socket A-coded
1	COM	Common*2	
2	n + 1	Digital output: n + 1*3	
3	COM	Common*2	
4	n	Digital output: n*3	
5	N.C.	N.C.	

*2 0 VDC (US2) for PNP type and 24 VDC (US2) for NPN type.

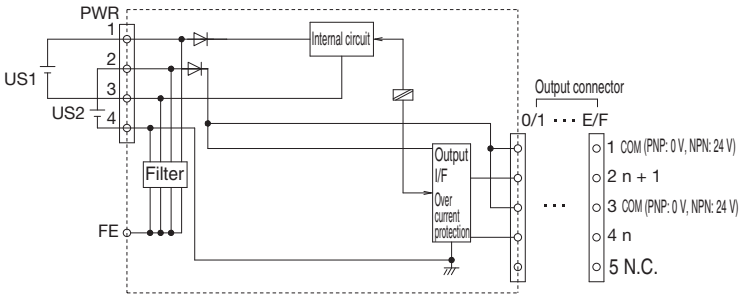
*3 24 VDC (US2) for PNP type and 0 VDC (US2) for NPN type are output.

Connector for Wireless Adapter

Pin no.	Signal	Description	M8, 4-pin, socket
1	24 V (US1)	24 VDC (US1): Output*1	
2	Internal BUS B	For wireless adapter communication	
3	0 V (US1)	0 VDC (US1)	
4	Internal BUS A	For wireless adapter communication	

*1 Do not input power.

Internal circuit



* Bracket 1 and 2 are FE

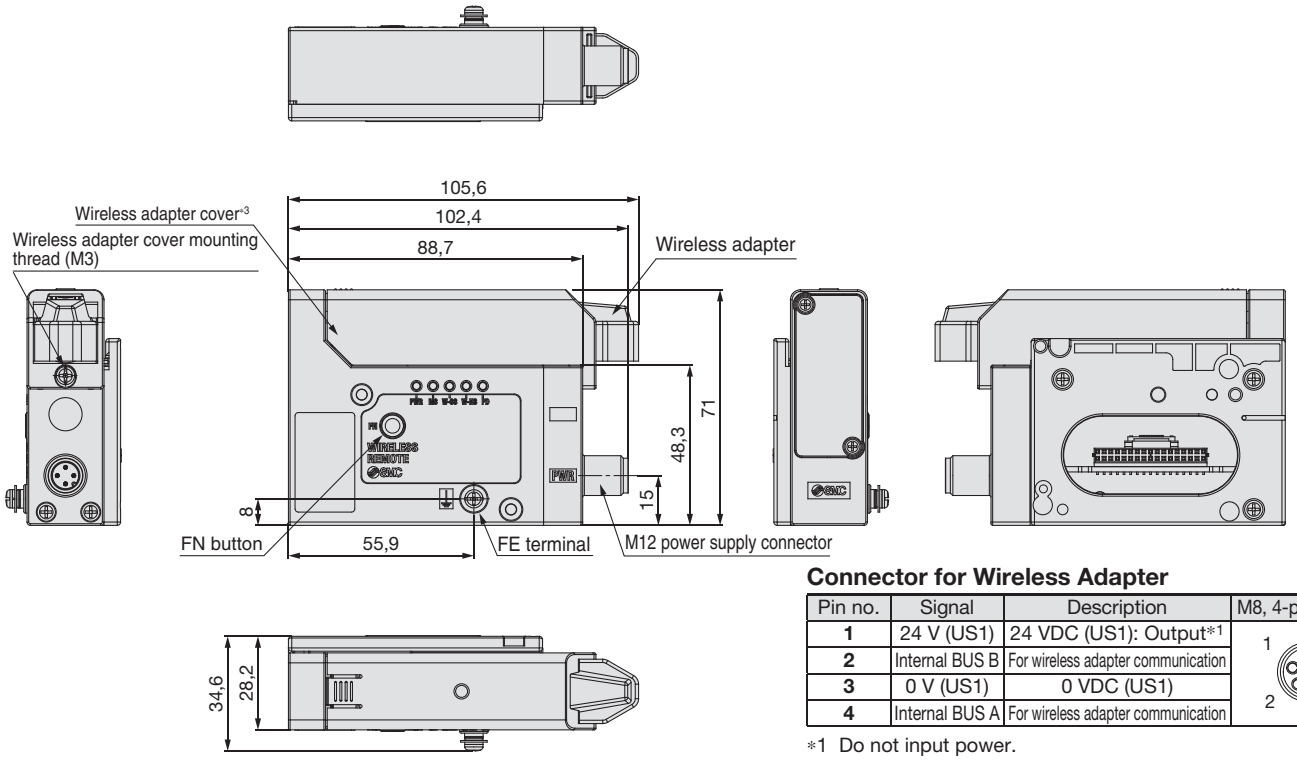


Dimensions/Parts Description

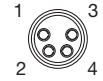
Compact Wireless Remote (Valve Manifold)

EXW1-RDY□M5C-□

With wireless adapter cover

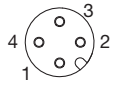


Connector for Wireless Adapter

Pin no.	Signal	Description	M8, 4-pin, socket
1	24 V (US1)	24 VDC (US1): Output*1	
2	Internal BUS B	For wireless adapter communication	
3	0 V (US1)	0 VDC (US1)	
4	Internal BUS A	For wireless adapter communication	

*1 Do not input power.

Power Supply Connector

Pin no.	Signal	Description	M12, 4-pin, A-coded, plug
1	24 V (US1)	24 VDC (US1): Input*2	
2	24 V (US2)	24 VDC (US2): Input*2	
3	0 V (US1)	0 VDC (US1)	
4	0 V (US2)	0 VDC (US2)	

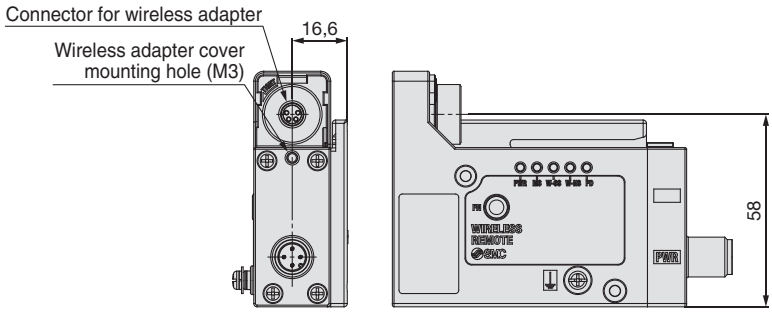
*2 Input 24 VDC ±10 %.

*3 For direct mounting of wireless adapter, a wireless adapter cover is required. (For details ⇒ p. 16)

* If without wireless adapter is selected, a dedicated cable for wireless adapter and wireless adapter or wireless adapter and wireless adapter cover must be ordered separately. (For details ⇒ p. 14, 16)
When the type with a wireless adapter is selected, the wireless adapter and wireless adapter cover are assembled before shipping.

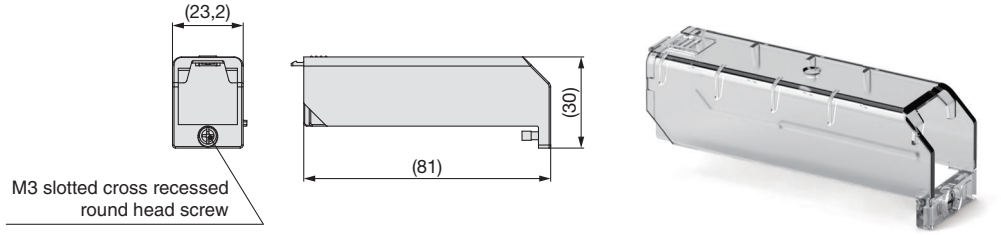
EXW1-RDY□M5C

Wireless adapter, Without cover



Wireless Adapter Cover

EXW1-AB6

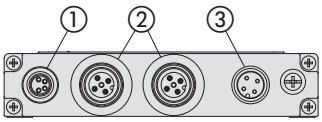


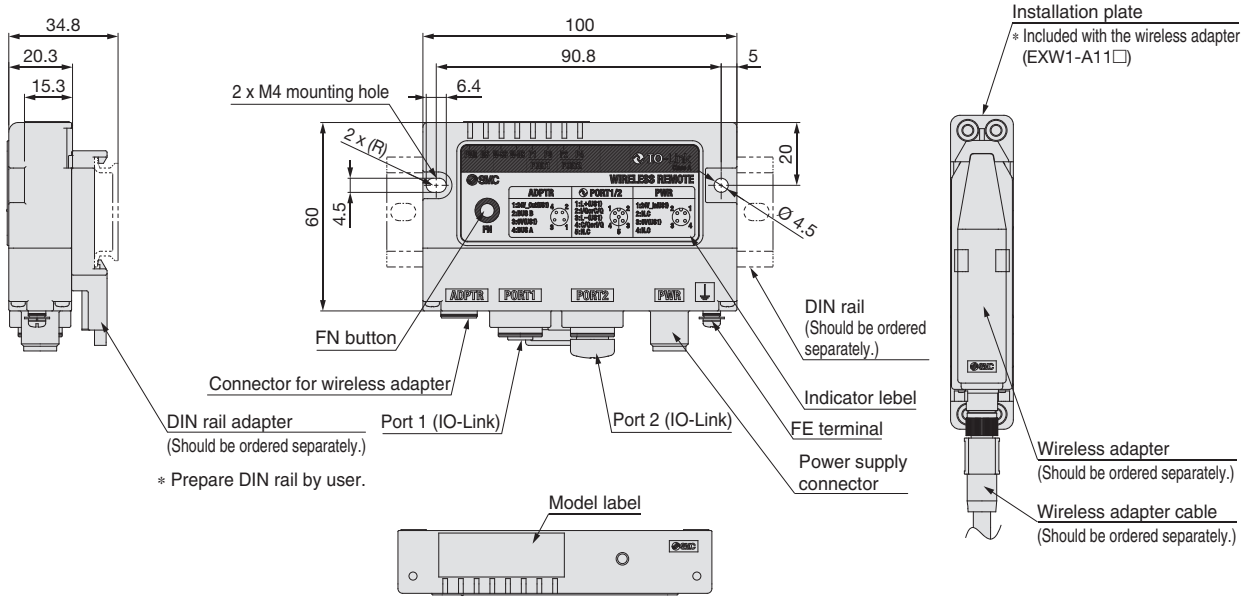
Dimensions/Parts Description



Compact Wireless Remote (IO-Link)

EXW1-RL□P□C





①Connector for Wireless Adapter

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

②Port 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	
3	L– (US1)	
4	C/Q or I/Q∗2	
5	Unused	

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

②Port 1/2: EXW1-RLBPA7C (ClassB)

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

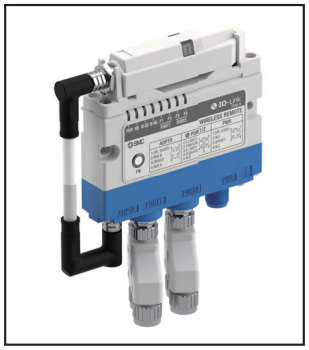
∗1 Do not input power.
∗2 The functions of pins can be changed in the settings.

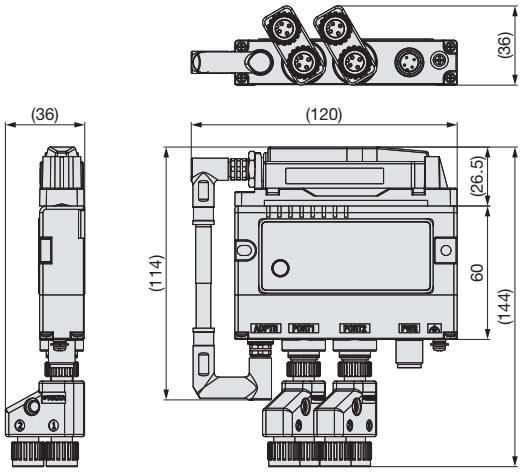
③Power supply connector

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

∗1 EXW1-RLBPA7C (ClassB) only

■ Dimensions when the wireless adapter, cable for the wireless adapter (EXW1-AC001-SAPU), installation plate, and Y-branch connector (EXW1-ACY3) are combined



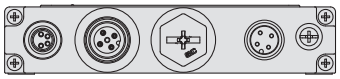


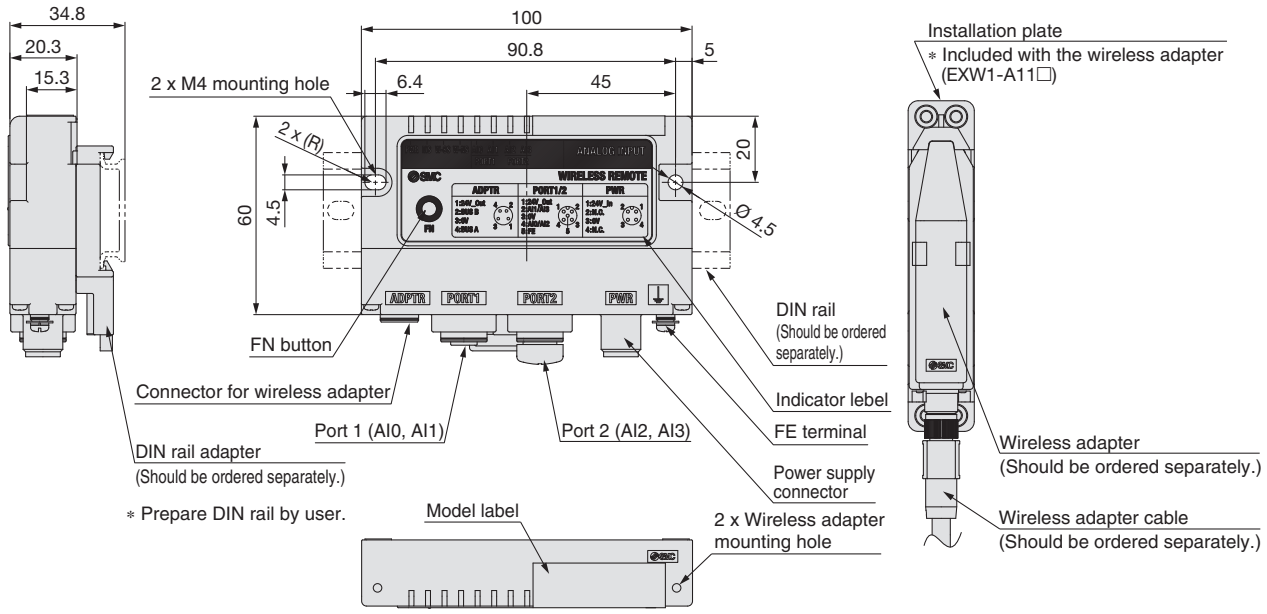


Dimensions/Parts Description

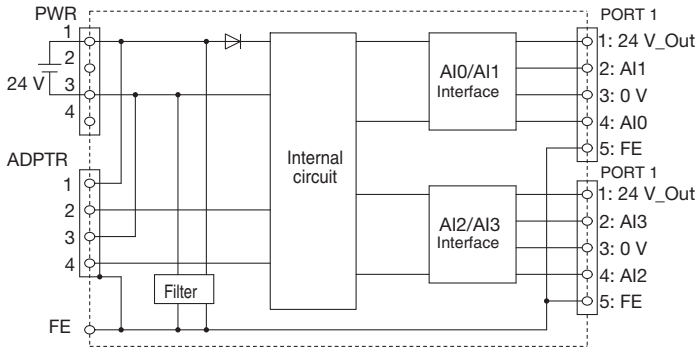
Compact Wireless Remote (Analogue Input)

EXW1-RAXZA2C





Internal circuit



Connector for Wireless Adapter

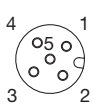
Pin no.	Description	M8, 4-pin, socket
1	24 V	
2	Internal BUS B	
3	0 V	
4	Internal BUS A	

Power supply connector

No.	Signal	Description	M12, 4-pin, plug A code
1	24 V	24 VDC: Input∗1	
2	N.C.	N.C.	
3	0 V	0 VDC	
4	N.C.	N.C.	

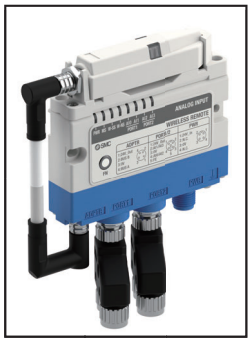
∗1 Input 24 V ±10 %.

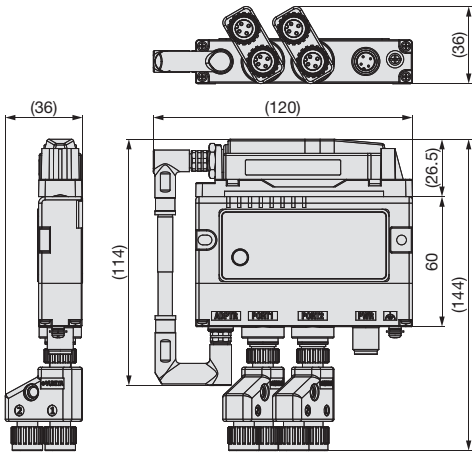
Analogue device connector PORT 1/PORT 2

No.	Signal	Description	M12, 5-pin, socket A code
1	24 V	24 V: Output∗2	
2	AI1/AI3	Analogue input	
3	0 V	0 V	
4	AI0/AI2	Analogue input	
5	FE	FE	

∗2 Do not input power.

■ Dimensions when the wireless adapter, cable for the wireless adapter (EXW1-AC001-SAPU), installation plate, and Y-branch connector (EXW1-ACY2) are combined

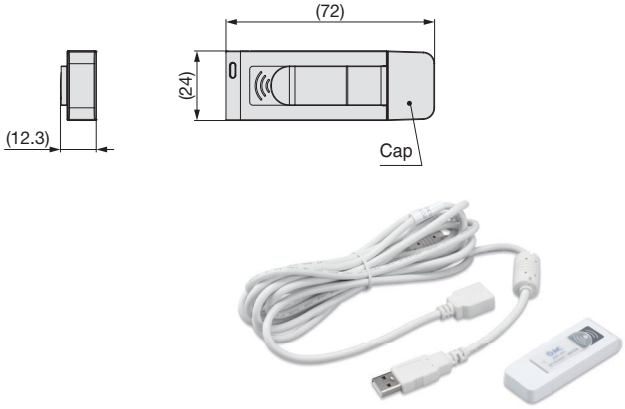




Dimensions/Parts Description

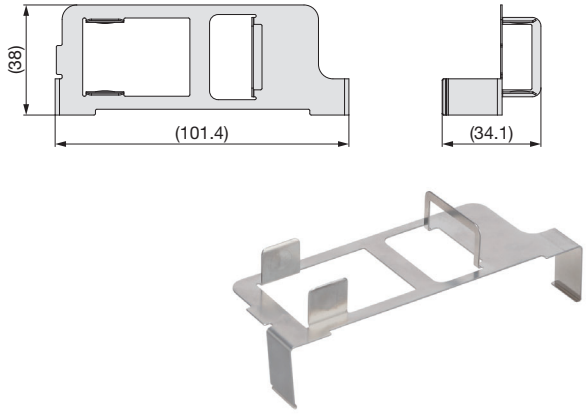
NFC Reader/Writer

EXW1-NT1



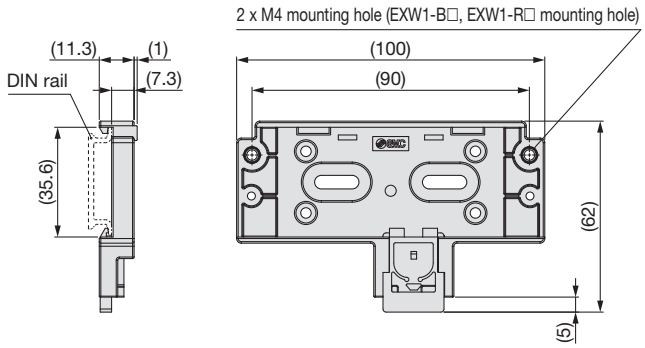
Fixing Bracket

EXW1-AB2 (Option, For EXW1)



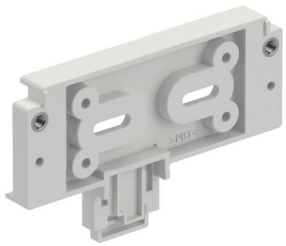
DIN Rail Adapter

EXW1-AB5



* Mount it to the body using the included cross recessed round head screws (M4 x 20: 2 pcs.).
* Prepare DIN rail by user.

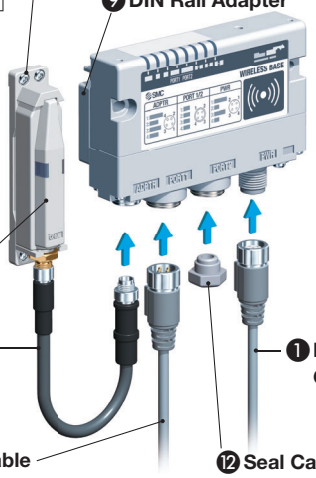
Compatible part numbers
EXW1-B Series
EXW1-RD□□E□ Series
EXW1-RL Series
EXW1-RA Series



EXW1 Series
Accessories (Optional Parts)

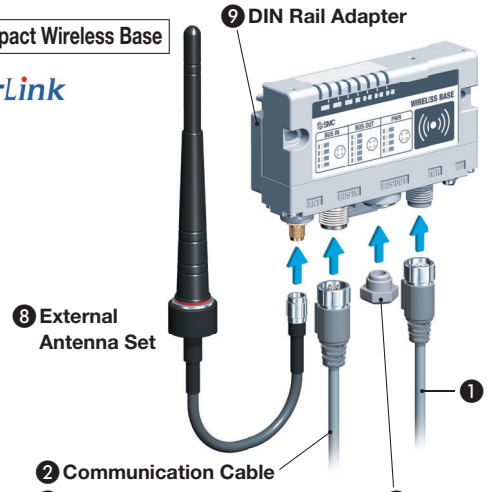
Compact Wireless Base

EtherCAT
EtherNet/IP
PROFINET
DeviceNet



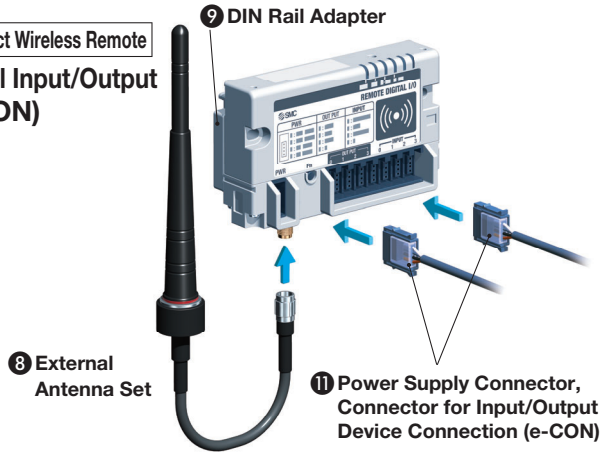
Compact Wireless Base

CC-Link



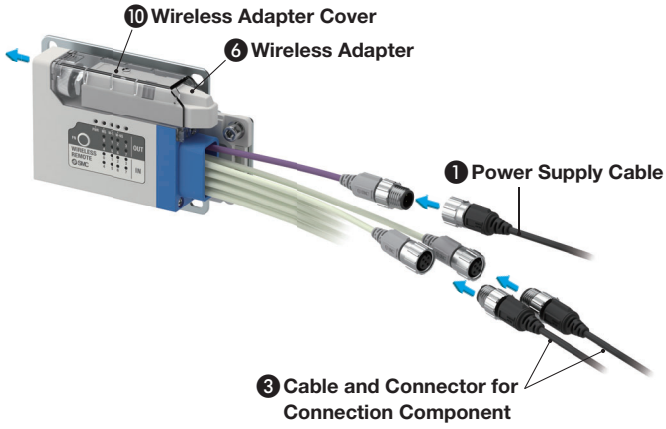
Compact Wireless Remote

Digital Input/Output (e-CON)



Compact Wireless Remote

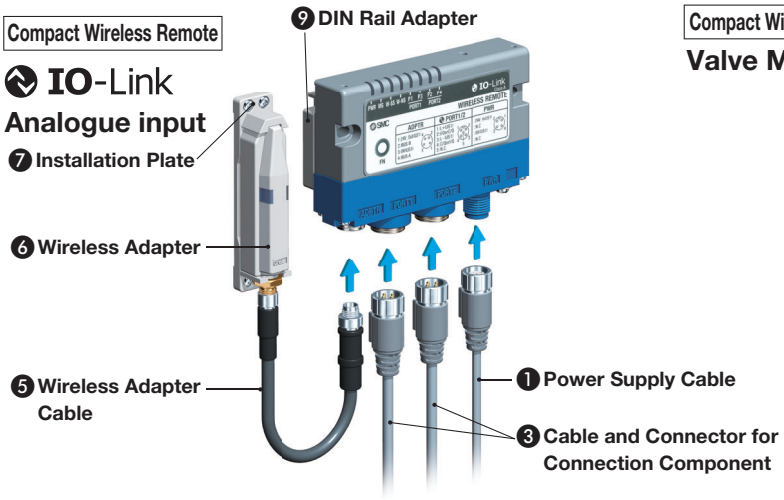
Digital Input/Output (M12 grommet)



Compact Wireless Remote

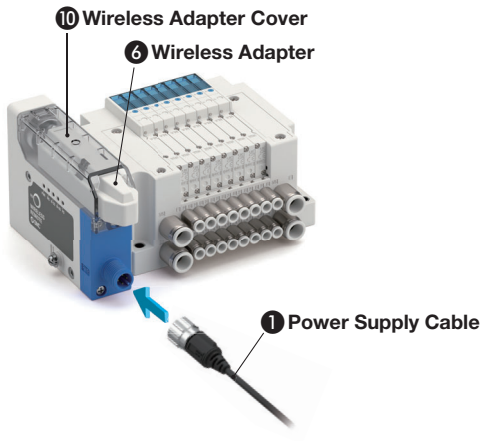
IO-Link

Analogue input



Compact Wireless Remote

Valve Manifold



❶ Power Supply Cable (For DeviceNet, power is supplied via the communication cable.)

For EtherCAT | **For PROFINET** | **For EtherNet/IP™** | **For Digital Input/Output (M12 grommet)** | **For IO-Link** | **For Analogue Input** | **For Valve Manifold**

EX500-AP 050 - S

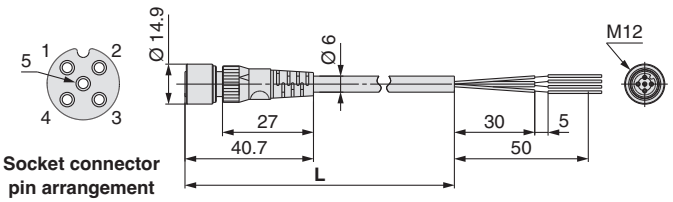
Cable length (L)

010	1000 mm
050	5000 mm

Connector specification

S	Straight
A	Angled

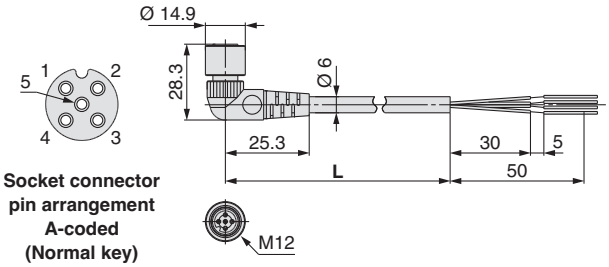
Straight connector type



Socket connector pin arrangement A-coded (Normal key)

Item	Specifications
Cable O.D.	Ø 6 mm
Conductor nominal cross section	0.3 mm²/AWG22
Wire O.D. (Including insulator)	1.5 mm
Min. bending radius (Fixed)	40 mm

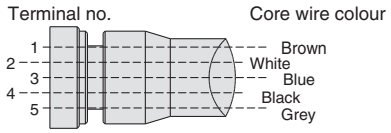
Angled connector type



Socket connector pin arrangement A-coded (Normal key)

Item	Specifications
Cable O.D.	Ø 6 mm
Conductor nominal cross section	0.3 mm²/AWG22
Wire O.D. (Including insulator)	1.5 mm
Min. bending radius (Fixed)	40 mm

Connections



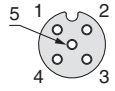
❶ Power Supply Cable

For EtherCAT | **For PROFINET** | **For EtherNet/IP™** | **For Digital Input/Output (M12 grommet)** | **For IO-Link** | **For Analogue Input** | **For Valve Manifold**

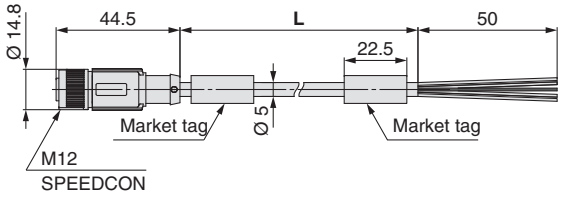
PCA- 1401804

Cable length (L)

1401804	1500 mm
1401805	3000 mm
1401806	5000 mm

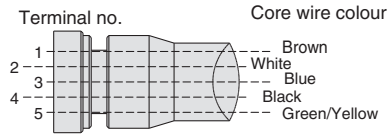


Socket connector pin arrangement A-coded (Normal key)



Item	Specifications
Cable O.D.	Ø 5 mm
Conductor nominal cross section	0.34 mm²/AWG22
Wire O.D. (Including insulator)	1.27 mm
Min. bending radius (Fixed)	21.7 mm

Connections



❶ Power Supply Cable

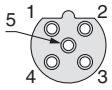
For CC-Link

Straight connector type

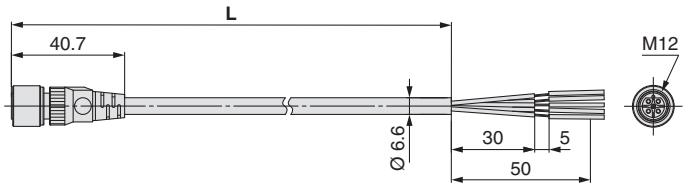
EX9-AC 050 - 1

● **Cable length (L)**

010	1000 mm
030	3000 mm
050	5000 mm

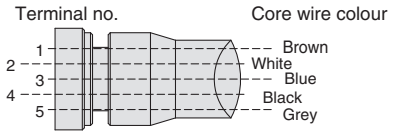


Socket connector pin arrangement B-coded (Reverse key)



Item	Specifications
Cable O.D.	Ø 6.6 mm
Conductor nominal cross section	0.3 mm²/AWG22
Wire O.D. (Including insulator)	1.65 mm
Min. bending radius (Fixed)	40 mm

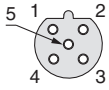
Connections



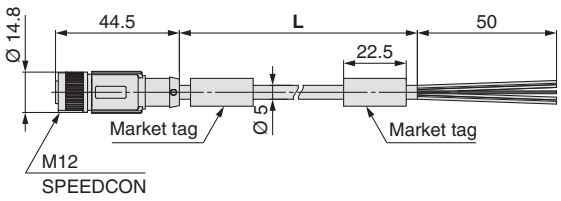
PCA-1401807

● **Cable length (L)**

1401807	1500 mm
1401808	3000 mm
1401809	5000 mm

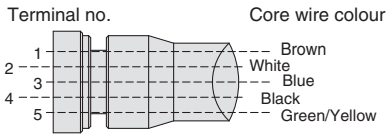


Socket connector pin arrangement B-coded (Reverse key)



Item	Specifications
Cable O.D.	Ø 5 mm
Conductor nominal cross section	0.34 mm²/AWG22
Wire O.D. (Including insulator)	1.27 mm
Min. bending radius (Fixed)	21.7 mm

Connections



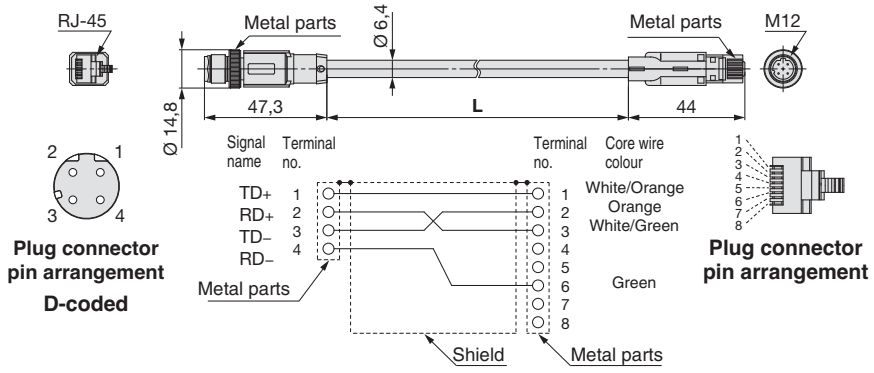
❷ Communication Cable

For EtherCAT | **For PROFINET** | **For EtherNet/IP™**

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

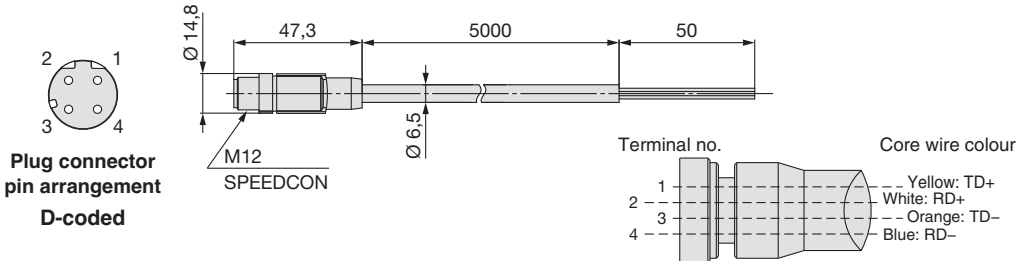
Cable length (L)

010	1000 mm
020	2000 mm
030	3000 mm
050	5000 mm
100	10000 mm



Connections (Straight cable)

PCA-1446566 (Plug)



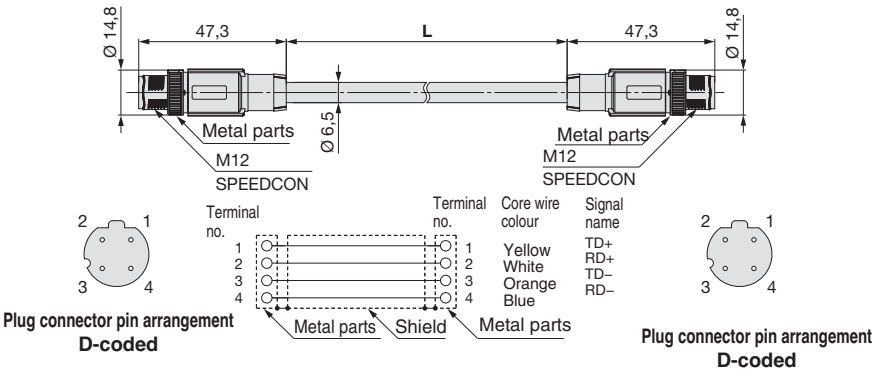
Connections

Straight connector type

EX9-AC 005 EN-PSPS (With 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



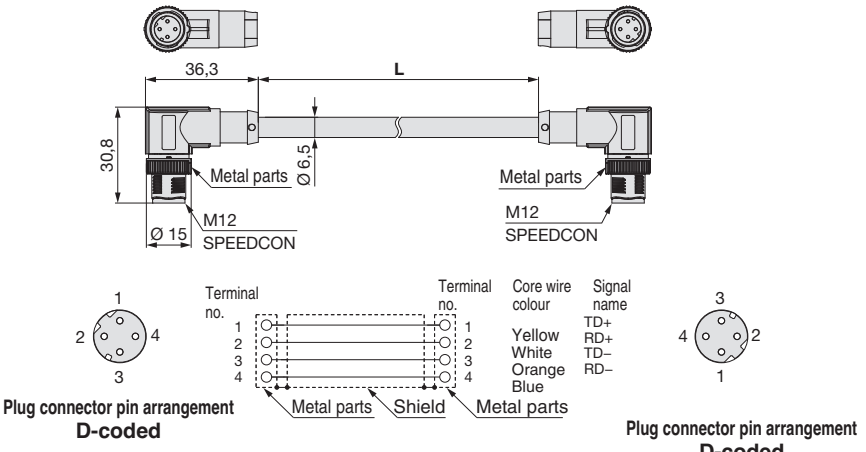
Connections (Straight cable)

Angled connector type

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

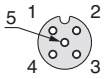


Connections (Straight cable)

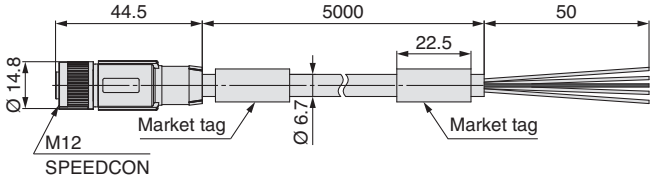
❷ Communication Cable

For DeviceNet®

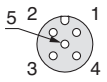
PCA-1557633
(Socket)



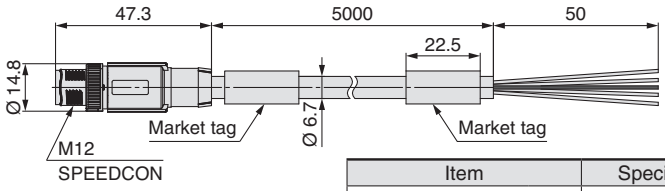
Socket connector pin arrangement
A-coded (Normal key)

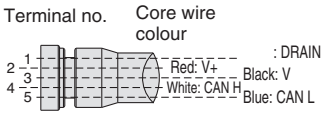


PCA-1557646
(Plug)



Plug connector pin arrangement
A-coded (Normal key)





Connections

Item		Specifications
Cable O.D.		Ø 6.7 mm
Conductor nominal cross section	Power pair	0.34 mm²/AWG22
	Data pair	0.25 mm²/AWG24
Wire O.D. (Including insulator)	Power pair	1.4 mm
	Data pair	2.05 mm
Min. bending radius (Fixed)		67 mm

Made to Order

Made to Order

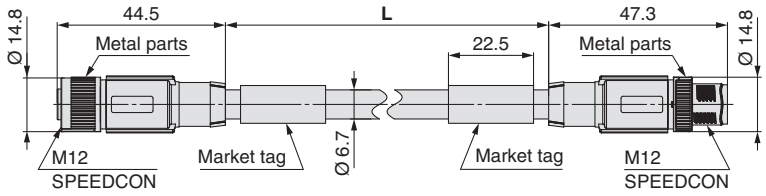
Cable length	10000 mm	Refer to page 55.

Straight connector type

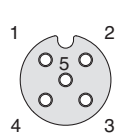
EX9-AC 005 DN-SSPS (With connector on both sides (Socket/Plug))

Cable length (L)

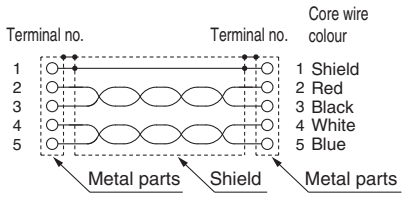
005	500 mm
010	1000 mm
020	2000 mm
030	3000 mm
050	5000 mm
100	10000 mm



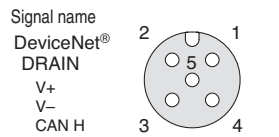
Item		Specifications
Cable O.D.		Ø 6.7 mm
Conductor nominal cross section	Power pair	0.34 mm²/AWG22
	Data pair	0.25 mm²/AWG24
Wire O.D. (Including insulator)	Power pair	1.4 mm
	Data pair	2.05 mm
Min. bending radius (Fixed)		67 mm



Socket connector pin arrangement
A-coded (Normal key)



Connections



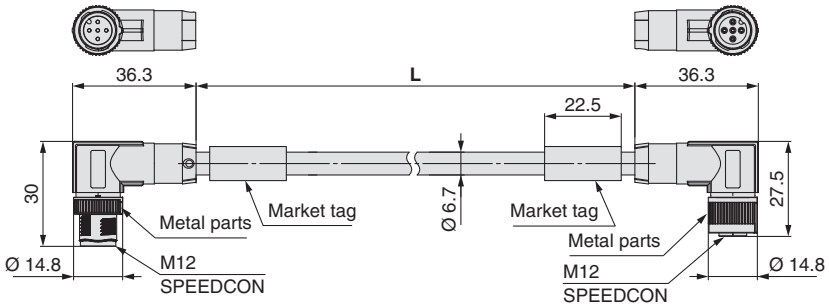
Plug connector pin arrangement
A-coded (Normal key)

Angled connector type

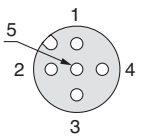
EX9-AC 005 DN-SAPA (With angled connector on both sides (Socket/Plug))

Cable length (L)

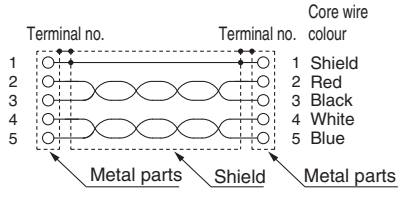
005	500 mm
010	1000 mm
020	2000 mm
030	3000 mm
050	5000 mm
100	10000 mm



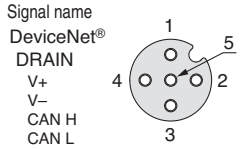
Item		Specifications
Cable O.D.		Ø 6.7 mm
Conductor nominal cross section	Power pair	0.34 mm²/AWG22
	Data pair	0.25 mm²/AWG24
Wire O.D. (Including insulator)	Power pair	1.4 mm
	Data pair	2.05 mm
Min. bending radius (Fixed)		67 mm



Plug connector pin arrangement
A-coded (Normal key)



Connections

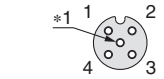


Socket connector pin arrangement
A-coded (Normal key)

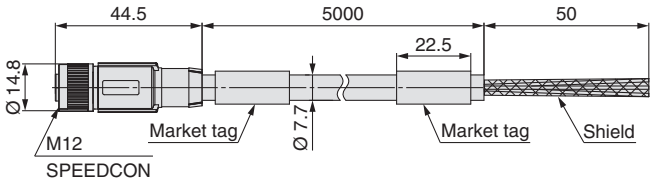
❷ Communication Cable

For CC-Link

PCA-1567720
(Socket)



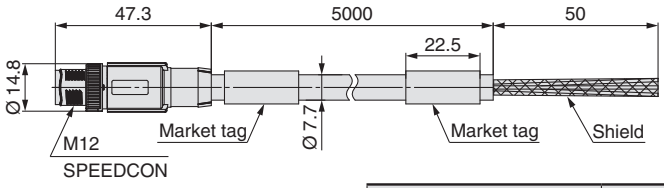
Socket connector pin arrangement
A-coded (Normal key)
*1 Number of holes: 5,
Total number of pins: 4



PCA-1567717
(Plug)



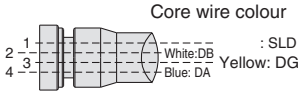
Plug connector pin arrangement
A-coded (Normal key)



Made to Order

Made to Order

Cable length	10000 mm	Refer to page 55.



Connections

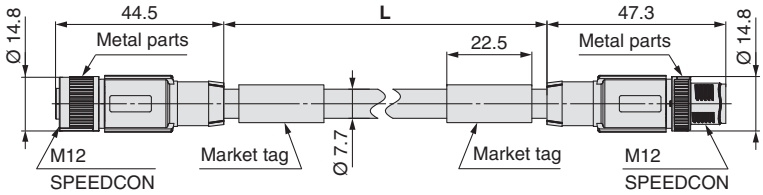
Item		Specifications
Cable O.D.		Ø 7.7 mm
Conductor nominal cross section	**Data pair**	0.5 mm²/AWG20
	Drain	0.34 mm²/AWG22
Wire O.D. (Including insulator)		2.55 mm
Min. bending radius (Fixed)		77 mm

Straight connector type

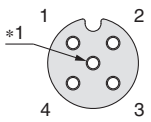
EX9-AC 005 MJ-SSPS (With connector on both sides (Socket/Plug))

Cable length (L)

005	500 mm
010	1000 mm
020	2000 mm
030	3000 mm
050	5000 mm
100	10000 mm

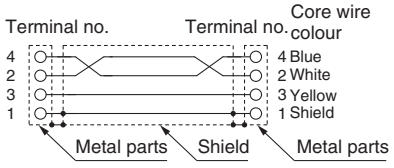


Item		Specifications
Cable O.D.		Ø 7.7 mm
Conductor nominal cross section	**Data pair**	0.5 mm²/AWG20
	Drain	0.34 mm²/AWG22
Wire O.D. (Including insulator)		2.55 mm
Min. bending radius (Fixed)		77 mm

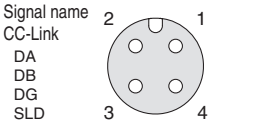


Socket connector pin arrangement
A-coded (Normal key)

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



Connections



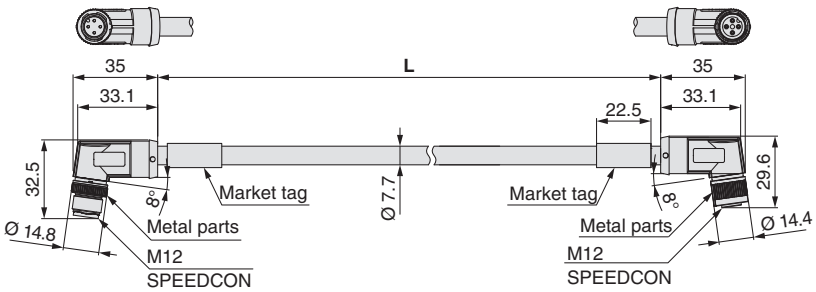
Plug connector pin arrangement
A-coded (Normal key)

Angled connector type

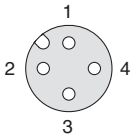
EX9-AC 005 MJ-SAPA (With angled connector on both sides (Socket/Plug))

Cable length (L)

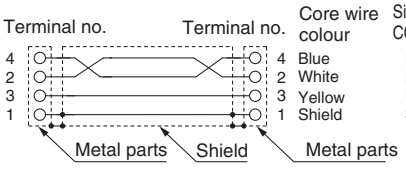
005	500 mm
010	1000 mm
020	2000 mm
030	3000 mm
050	5000 mm
100	10000 mm



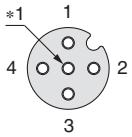
Item		Specifications
Cable O.D.		Ø 7.7 mm
Conductor nominal cross section	**Data pair**	0.5 mm²/AWG20
	Drain	0.34 mm²/AWG22
Wire O.D. (Including insulator)		2.55 mm
Min. bending radius (Fixed)		77 mm



Plug connector pin arrangement
A-coded (Normal key)



Connections



Socket connector pin arrangement
A-coded (Normal key)

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

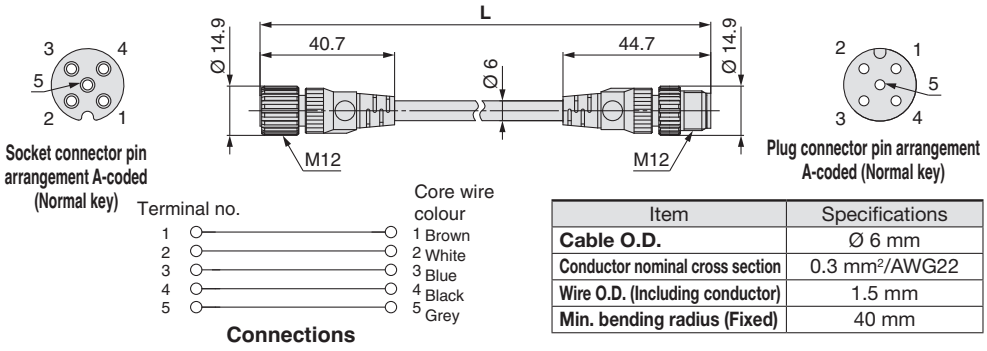
❸ Cable and Connector for Connection Component

For IO-Link | **For Analogue Input** | **For Digital Input/Output (M12 grommet)**

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

Cable length (L)

005	500 mm
010	1000 mm
020	2000 mm
030	3000 mm
050	5000 mm
100	10000 mm



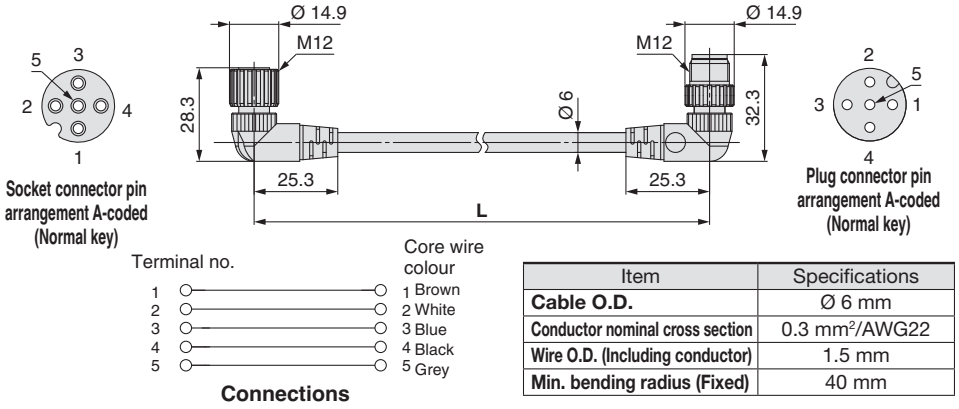
Item	Specifications
Cable O.D.	Ø 6 mm
Conductor nominal cross section	0.3 mm²/AWG22
Wire O.D. (Including conductor)	1.5 mm
Min. bending radius (Fixed)	40 mm

Angled connector type

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

Cable length (L)

005	500 mm
010	1000 mm
020	2000 mm
030	3000 mm
050	5000 mm
100	10000 mm



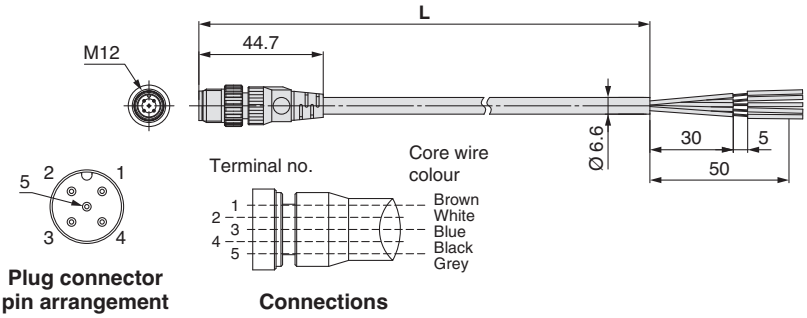
Item	Specifications
Cable O.D.	Ø 6 mm
Conductor nominal cross section	0.3 mm²/AWG22
Wire O.D. (Including conductor)	1.5 mm
Min. bending radius (Fixed)	40 mm

Straight connector type

EX9-AC 030 -7

Cable length (L)

010	1000 mm
030	3000 mm



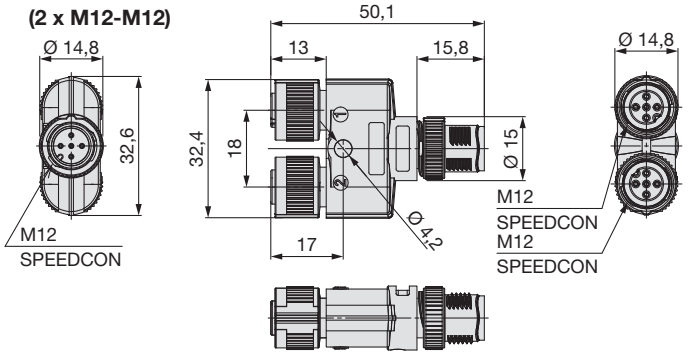
Item	Specifications
Cable O.D.	Ø 6.6 mm
Conductor nominal cross section	0.3 mm²/AWG22
Wire O.D. (Including insulator)	1.65 mm
Min. bending radius (Fixed)	40 mm

❸ Cable and Connector for Connection Component

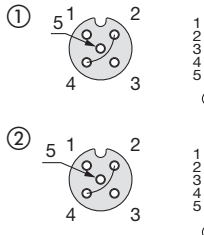
For Digital Input/Output (M12 grommet)

Y-branch Connector

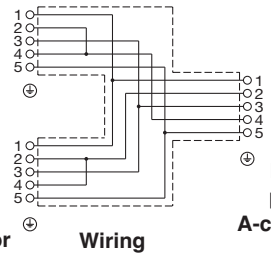
PCA-1557785
(2 x M12-M12)



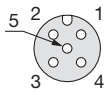
Socket connector pin assignment A-coded (Normal key)



Socket connector pin assignment A-coded (Normal key)

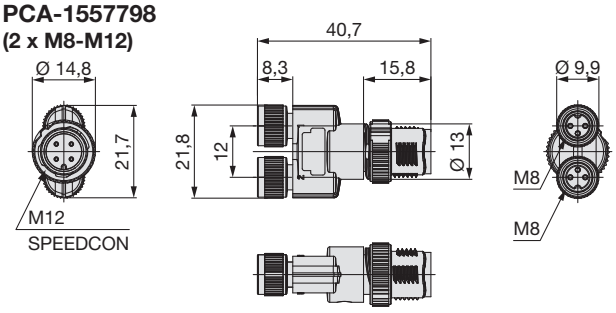


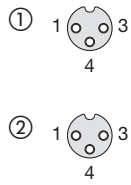
Wiring



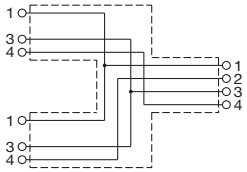
Plug connector pin assignment A-coded (Normal key)

PCA-1557798
(2 x M8-M12)





Socket connector pin assignment



Wiring

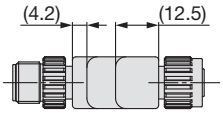


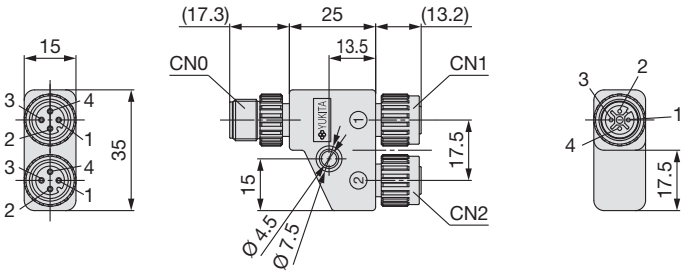
Plug connector pin assignment A-coded (Normal key)

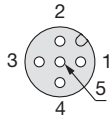
For IO-Link | For Analogue Input

EXW1-ACY3 (For IO-Link)

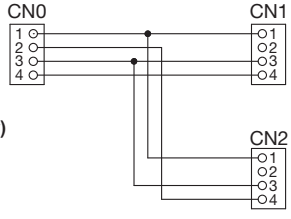
Y-branch Connector for Port Class A



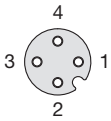




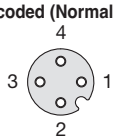
Plug connector pin arrangement A-coded (Normal key)



Connections



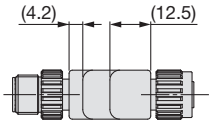
Socket connector pin arrangement A-coded (Normal key)

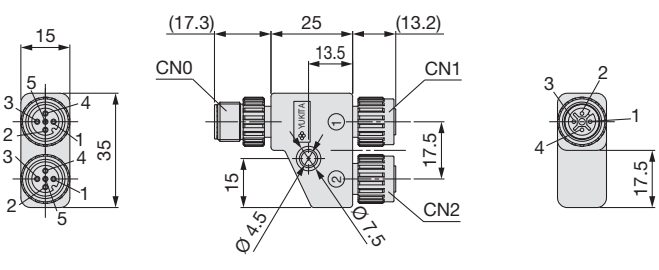


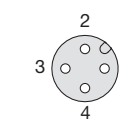
Socket connector pin arrangement A-coded (Normal key)

EXW1-ACY2 (For analogue input)

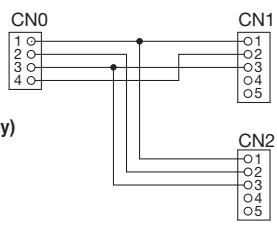
Y-branch Connector



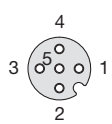




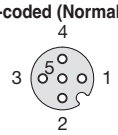
Plug connector pin arrangement A-coded (Normal key)



Connections



Socket connector pin arrangement A-coded (Normal key)



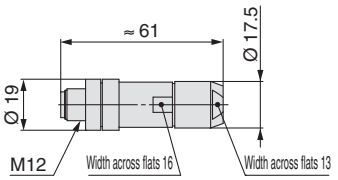
Socket connector pin arrangement A-coded (Normal key)

❹ Field-wireable Communication Connector

Plug

For EtherCAT **For PROFINET** **For EtherNet/IP™**

PCA-1446553





D-coded

Applicable Cable

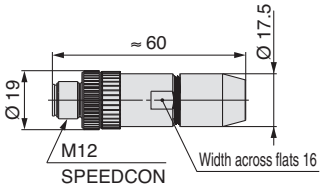
Item	Specifications
Cable O.D.	4.0 to 8.0 mm
Wire gauge (Stranded wire cross section)	0.14 to 0.34 mm²/AWG26 to 22

* 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





A-coded (Normal key)

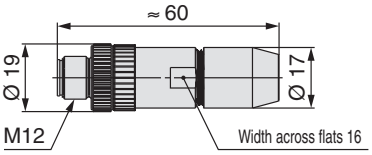
Applicable Cable

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-1075526





A-coded (Normal key)

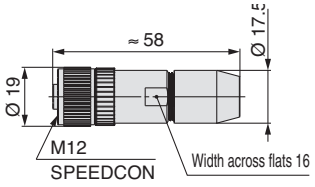
Applicable Cable

Item	Specifications
Cable O.D.	4.0 to 8.0 mm
Wire gauge (Stranded wire cross section)	0.14 to 0.5 mm²/AWG26 to 20

Socket

For DeviceNet®

PCA-1075529





A-coded (Normal key)

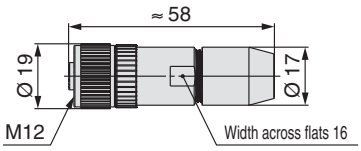
Applicable Cable

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)

Socket

For CC-Link

PCA-1075527





A-coded (Normal key)

Applicable Cable

Item	Specifications
Cable O.D.	4.0 to 8.0 mm
Wire gauge (Stranded wire cross section)	0.14 to 0.5 mm²/AWG26 to 20

❺ Wireless Adapter Cable



EXW1-AC1-X1

●Secondary battery compatible

EXW1-AC001-SAPU
EXW1-AC030-SSPS

* Refer to page 31 for the dimensions and parts description.
* This cable is required to connect the wireless base and wireless adapter.

❻ Wireless Adapter

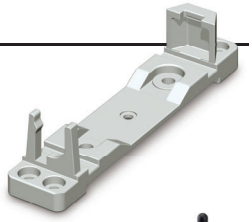


EXW1-A11□

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 30 for the dimensions and parts description.

❼ Installation Plate



EXW1-AB4

Included as an accessory with the wireless adapter (EXW1-A11□)

* Refer to page 30 for the dimensions.

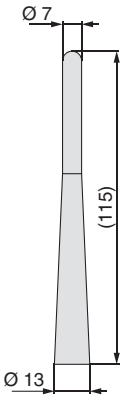
❽ External Antenna Set



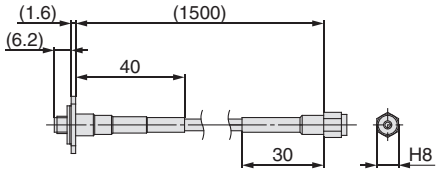
EXW1-EA1

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

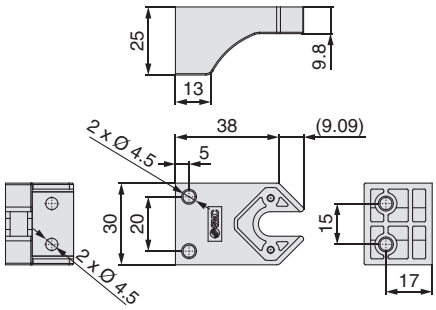
*1 The set is included with the external antenna specification. Only the included whip antenna and coaxial cable can be used with the product. Be sure to use them as a set.
*2 The external antenna set cannot be used for the internal antenna specification.
*3 It is not possible to use the external antenna set without connecting it with the external antenna specification.



① **Whip antenna**

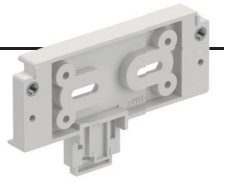


② **Coaxial cable**



③ **Bracket**

❾ DIN Rail Adapter



EXW1-AB5

* Refer to page 42 for the dimensions.

❿ Wireless Adapter Cover



EXW1-AB6

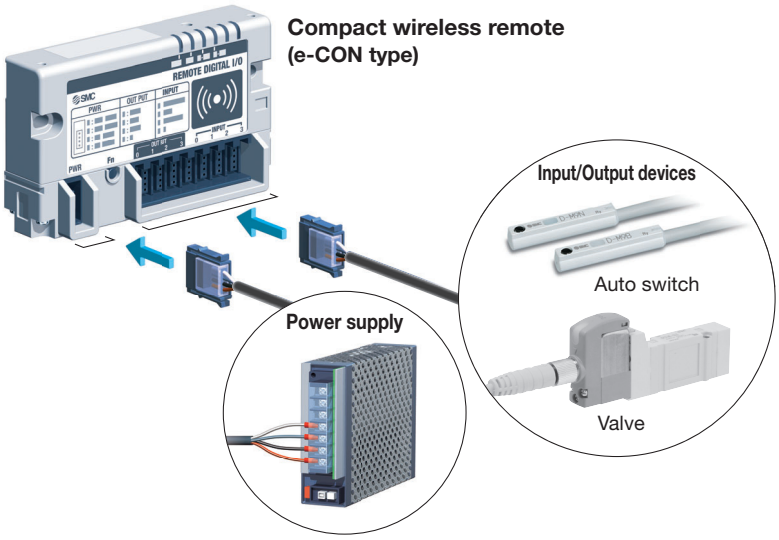
For direct mounting of wireless adapter, a wireless adapter cover is required.

* Refer to page 39 for the dimensions.

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

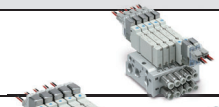
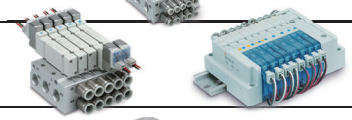
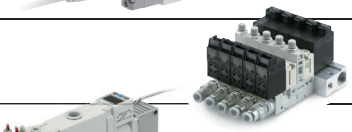
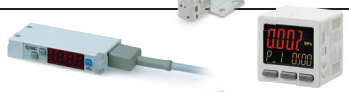
Select the applicable e-CON connectors based on the lead wire specifications of the components to be connected.
Both the power supply and I/O connectors have the same shape as the e-CON (4-pin, socket).
The lead wire specifications of each of our I/O devices are shown below for reference.

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 colour
ZS-28-C-1	24 to 26	0.14 to 0.2	Ø 1.0 to Ø 1.2	Yellow
ZS-28-C-2			Ø 1.2 to Ø 1.6	Orange
ZS-28-C-3	22 to 20	0.3 to 0.5	Ø 1.0 to Ø 1.2	Green
ZS-28-C-4			Ø 1.2 to Ø 1.6	Blue
ZS-28-C-5			Ø 1.6 to Ø 2.0	Grey
ZS-28-CA-1	—	0.1 to 0.5	Ø 0.6 to Ø 0.9	Orange
ZS-28-CA-2			Ø 0.9 to Ø 1.0	Red
ZS-28-CA-3			Ø 1.0 to Ø 1.15	Yellow
ZS-28-CA-4			Ø 1.15 to Ø 1.35	Blue
ZS-28-CA-5			Ø 1.35 to Ø 1.6	Green

Input/ Output	Product	Series	Appearance	Conductor cross section [mm²]	Insulator O.D. [mm]	Applicable e-CON part no.
Output	Valve	**JSY1000 Plug lead (V050-30-4A-□)**		0.3	Ø 1.55	ZS-28-C-4 ZS-28-CA-5
		JSY3000, 5000/SY/SYJ/SJ Plug lead (SY100-30-4A-□)		0.3	Ø 1.55	ZS-28-C-4 ZS-28-CA-5
		SY/SYJ M8 connector (V100-49-1-□)		0.16 (AWG25)	Ø 1.2	ZS-28-C-1 ZS-28-CA-4
	Ejector	**ZB (AXT661-13A/14A-□)**		AWG24	Ø 1.4	ZS-28-C-2 ZS-28-CA-5
		ZL/ZM (SY100-30-4A-□)		0.3	Ø 1.55	ZS-28-C-4 ZS-28-CA-5
		ZK2 (ZK2-LV□□-A)		0.2 (AWG24)	Ø 1.4	ZS-28-C-2 ZS-28-CA-5
Input	Pressure	**Z/ISE10, 20**		0.15 (AWG26)	Ø 1.0	ZS-28-C-1 ZS-28-CA-2
		PS1000		0.18	Ø 0.96	ZS-28-CA-2
	Auto switch	**D-M9**		0.15	Ø 0.88	ZS-28-CA-1
	Flow	**PF2M**		AWG26 (0.13)	Ø 1	ZS-28-CA-2

⑫ Seal Cap (10 pcs.)

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

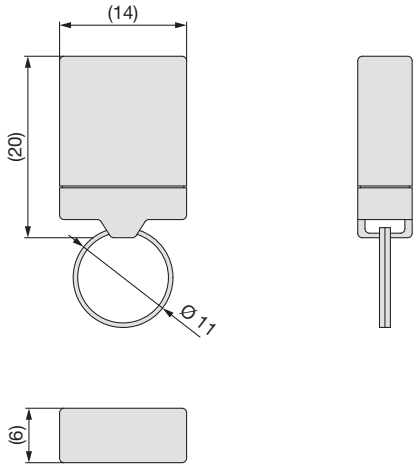
* 1 cap is included with the wireless base (EXW1-B□) and the wireless remote (EXW1-RL□).



EX9-AWTS
For M12

⑬ IO-Link Device Tool License Key

USB dongle
EX9-ZSW-LDT1



* The IO-Link Device Tool V5-PE (V5 or later only) manufactured by TMG is required for setting IO-Link devices.
The IO-Link Device Tool can be downloaded for free from TMG's website. However, to use it for more than 30 days, a license key for the IO-Link Device Tool is required.

EXW1 Series
Made to Order

Please contact SMC for detailed specifications and lead times.

Made to Order

❶ Communication Cable

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

For CC-Link

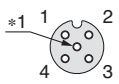
For DeviceNet®

EX9-AC100 MJ -X12

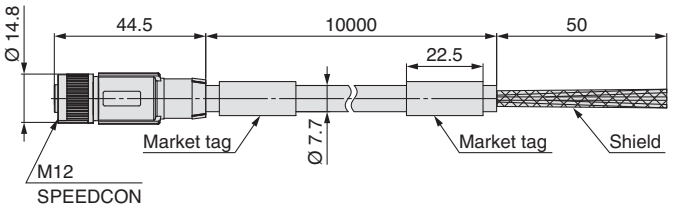
Applicable protocol

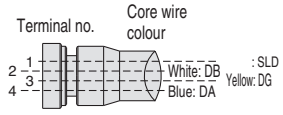
MJ	CC-Link
DN	DeviceNet®

For CC-Link



Socket connector pin arrangement
A-coded (Normal key)
*1 Number of holes: 5, Total number of pins: 4

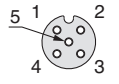




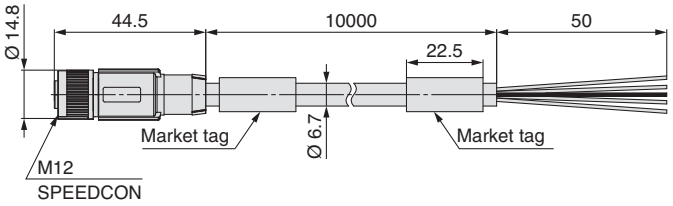
Connections

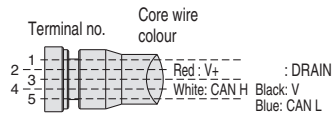
Item		Specifications
Cable O.D.		Ø 7.7 mm
Conductor nominal cross section	**Data pair**	0.5 mm²/AWG20
	Drain	0.34 mm²/AWG22
Wire O.D. (Including insulator)		2.55 mm
Min. bending radius (Fixed)		77 mm

For DeviceNet®



Socket connector pin arrangement
A-coded (Normal key)





Connections

Item		Specifications
Cable O.D.		Ø 6.7 mm
Conductor nominal cross section	**Power pair**	0.34 mm²/AWG22
	Data pair	0.25 mm²/AWG24
Wire O.D. (Including insulator)	**Power pair**	1.4 mm
	Data pair	2.05 mm
Min. bending radius (Fixed)		67 mm

Wireless System
Modular Type
EX600-W Series

How to Order



Remote module

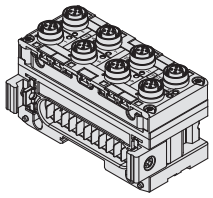
Wireless Unit

EX600 – W SV 1

- **W**: Wireless compatible
- **SV**: Remote module
- **1**: Output type

Symbol	Specifications
1	PNP
2	NPN

Digital Input Unit*1



EX600 – DX P D

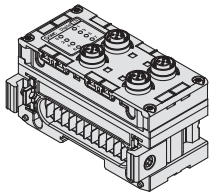
- **DX**: Digital input
- **P**: Input type

Symbol	Description
P	PNP
N	NPN

- **D**: Number of inputs and connector

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

Digital Output Unit*1



EX600 – DY P B

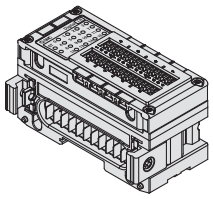
- **DY**: Digital output
- **P**: Output type

Symbol	Description
P	PNP
N	NPN

- **B**: Number of outputs and connector

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

Digital Input/Output Unit*1



EX600 – DM P F

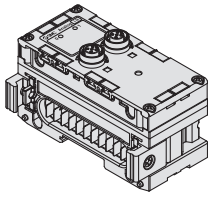
- **DM**: Digital input/output
- **P**: Input/Output type

Symbol	Description
P	PNP
N	NPN

- **F**: Number of inputs/outputs and connector

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

Analogue Input Unit*1



EX600 – AX A

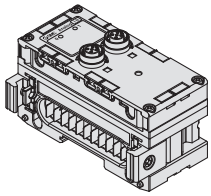
- **AX**: Analogue input
- **A**: Number of input channels and connector

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

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

How to Order

Analogue Output Unit*1 EX600 – AY A

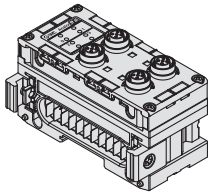


Analogue output

Number of output channels and connector

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

Analogue Input/Output Unit*1 EX600 – AM B



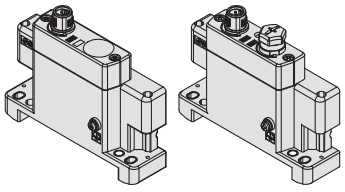
Analogue input/output

Number of input/output channels and connector

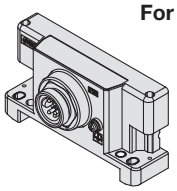
Symbol	Number of input channels	Number of output channels	Connector
B	2 channels	2 channels	M12 connector (5 pins) 4 pcs.

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

End Plate (D side) EX600 – E D 2 – 2



For M12



For 7/8 inch

End plate

End plate mounting position: D side

Power supply connector

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

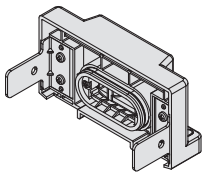
*1 The pin layout for "4" and "5" pin connector is different.
Refer to the dimensions on page 61.

Mounting method

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

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

End Plate (U side) EX600 – E U 1 – 2



End plate

End plate mounting position: U side

Specifications

Symbol	Specifications
1	Waterproof cover

Mounting method

Symbol	Description	Note
—	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.

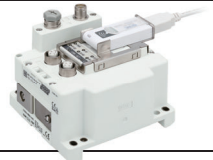


● **Fixing bracket (Option)**

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

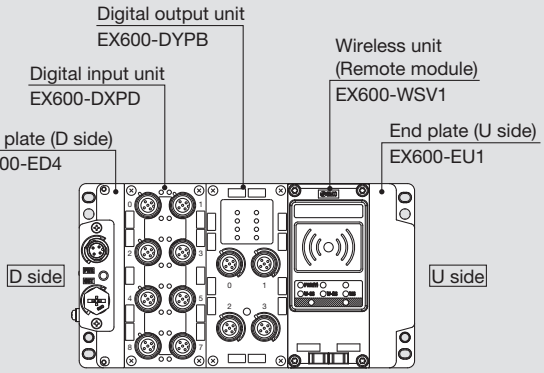
EXW1-AB 1

Variations

Symbol	Description	Appearance	
		Single unit	Product mounting view
1	For EX600-W		

Ordering Example of the Remote Module

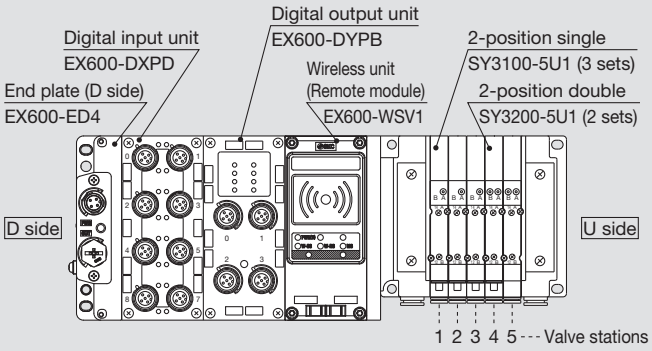
Remote module: Without valve manifold and with input/output unit



EX600-ED4 ····· **1 set**
EX600-DXPD ····· **1 set**
EX600-DYPB ····· **1 set**
EX600-WSV1 ····· **1 set**
EX600-EU1 ····· **1 set**

· Products should be ordered separately and assembled by the customer.

Manifold with remote module: With input/output unit



SS5Y3-10S6WS72-05B-C6
(Type 10 5-station manifold base, remote)
Negative common, M12 connector IN/OUT pin arrangement 1, I/O unit: 2 stations
＊SY3100-5U1 ····· **3 sets (2-position single part no.)**
＊SY3200-5U1 ····· **2 sets (2-position double part no.)**
＊EX600-DXPD ····· **1 set I/O unit part no. (Stations 1)**
＊EX600-DYPB ····· **1 set I/O unit part no. (Stations 2)**
→The asterisk denotes the symbol for the assembly. Prefix it to the part numbers of the valve, etc.

· For details, refer to the catalogue of each valve series.
· The manifold part number cannot be selected when ordering from Malaysia according to Malaysian laws. The wireless unit (remote module) needs to be ordered separately.

Specifications

Remote Module: EX600-WSV□

Item			Specifications
Electrical	For control/input (US1)	Power supply voltage	24 VDC ±10 %
		Current consumption	70 mA or less
	For output (US2)	Power supply voltage	24 VDC ±10 %
		Max. supply current	4 A
Input/Output	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 time		0.1/0.2/0.5/1/2/5/10/30/60 s*1
	Number of connected EX600 I/O units		Max. 9 EX600 I/O units (I/O = 128. I/O above 128 cannot be recognized.)
	Valve output	Output type	EX600-WSV1: Source/PNP (–COM) EX600-WSV2: Sink/NPN (+COM)
		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)
Wireless communication	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)
	Number of frequency channels		79 ch (Bandwidth: 1.0 MHz)
	Communication speed		250 kbps
	Communication distance		10 m (Depending on the operating environment)
	Radio Law certificate		Refer to page 69 for the latest information regarding in which countries the product is certified.
General	Enclosure		Conforms to IP67 (with manifold assembled)
	Ambient temperature (Operating temperature)		–10 to +50 °C
	Ambient temperature (Storage temperature)		–20 to +60 °C
	Ambient humidity		35 to 85 % RH (No condensation)
	Withstand voltage		500 VAC for 1 minute between external terminals and metallic parts
	Insulation resistance		10 MΩ or more (500 VDC between external terminals and metallic parts)
	Vibration resistance		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)
	Impact resistance		Conforms to EN 61131-2 147 m/s², 11 ms (Excludes valve manifold)
	Standards		CE/UKCA marking
	Weight		280 g
NFC communication*2	Communication standard		ISO/IEC 14443B (Type-B)
	Frequency		13.56 MHz
	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
*2 The NFC communication RFID tag of the 13.56 MHz passive type

End Plate (D side)

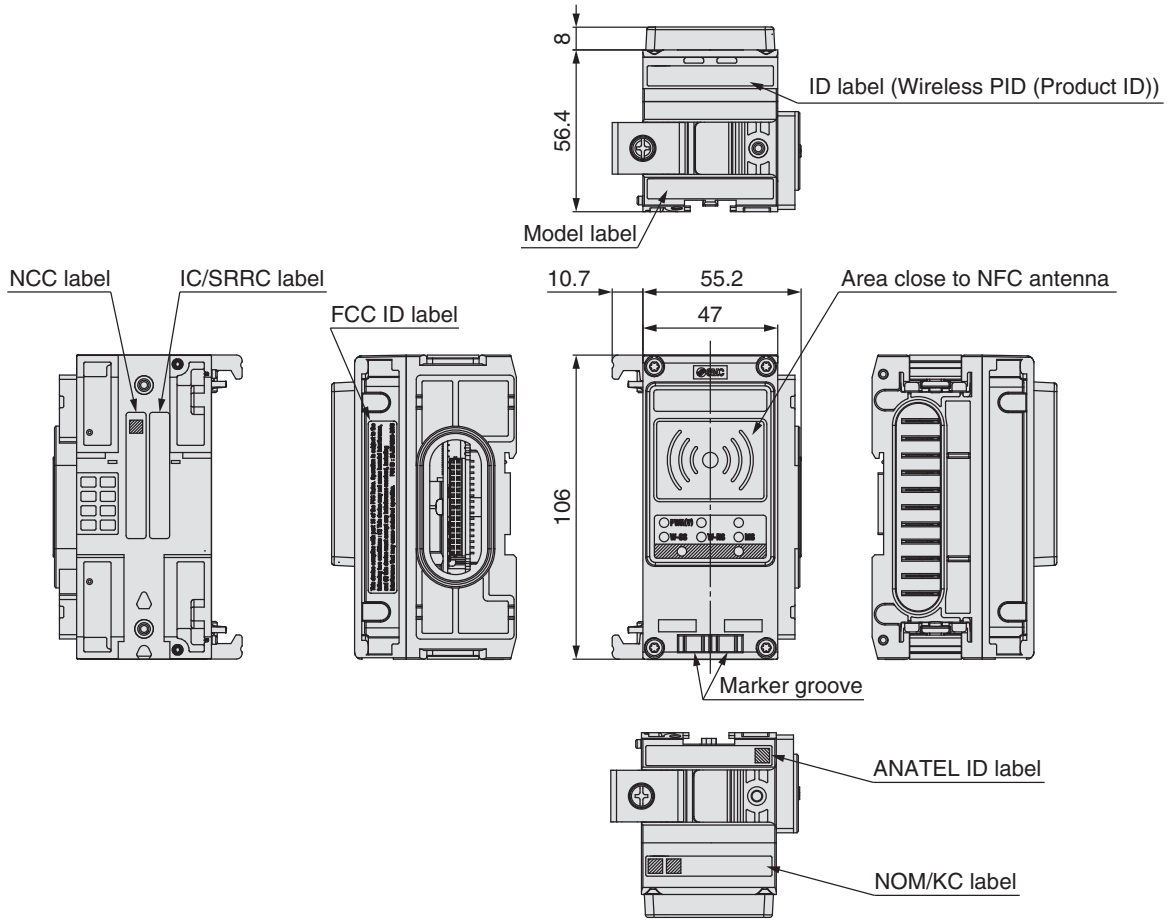
Model			EX600-ED2-□	EX600-ED3-□	EX600-ED4/5-□
Electrical	Power supply connector	PWR IN	M12 (5-pin) plug	7/8 inch (5-pin) plug	M12 (4-pin) plug
		PWR OUT	—	—	M12 (5-pin) socket
	Rated voltage	Power supply for control/input	24 VDC ±10 %		
		Power supply for output	24 VDC +10/–5 %		
	Rated current	Power supply for control/input	Max. 2 A	Max. 8 A	Max. 4 A
		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-□ is not compliant with UL (CSA) standards.

Dimensions

Remote Module

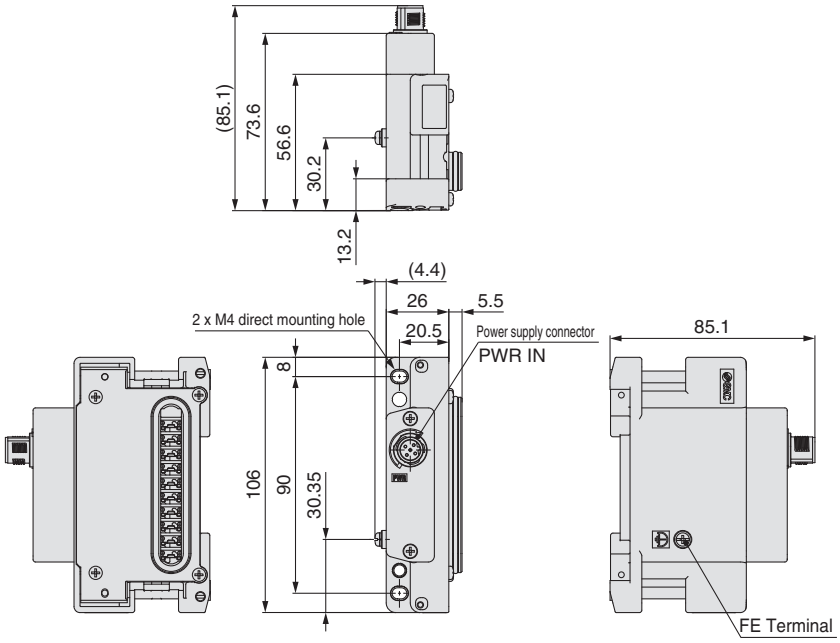
EX600-WSV□



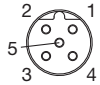
Dimensions

End Plate (D side)

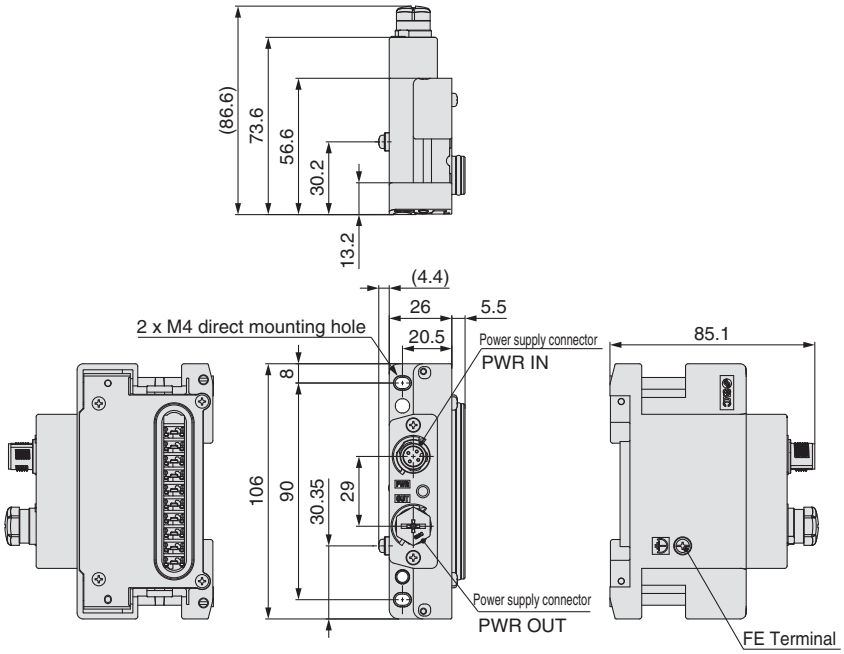
EX600-ED2



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

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

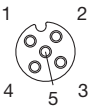
EX600-ED4/ED5



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

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

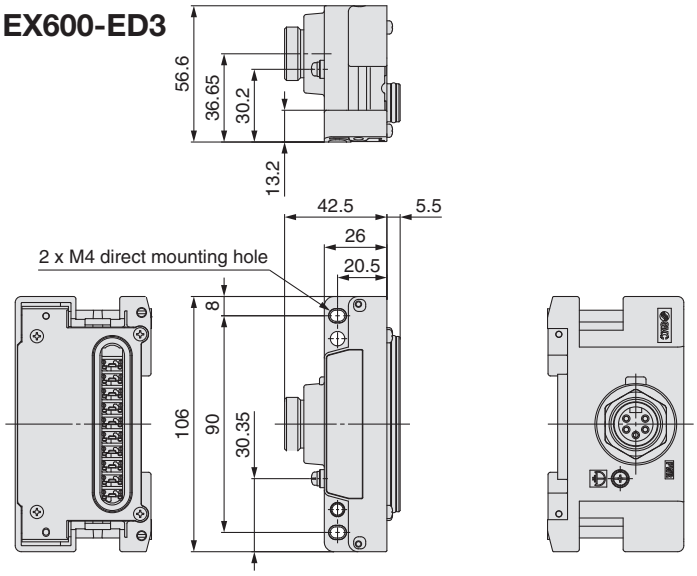
Power supply connector PWR OUT: M12 5-pin socket, A-coded

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

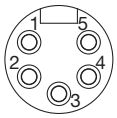
Dimensions

End Plate (D side)

EX600-ED3

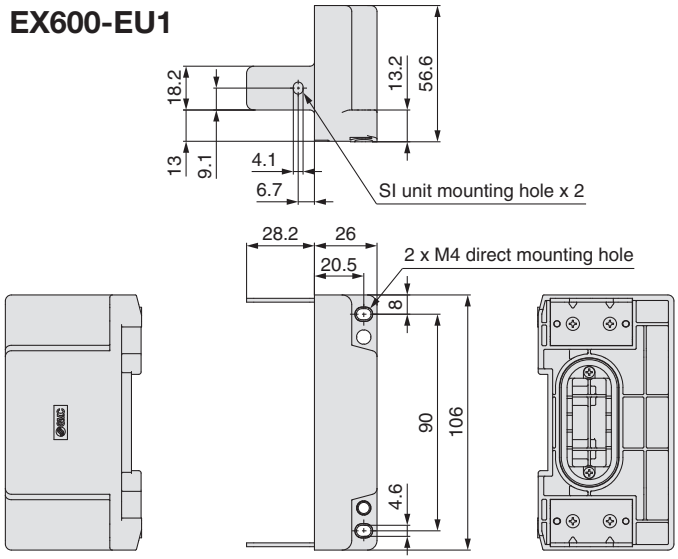


Power supply connector PWR: 7/8 inch 5-pin plug

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

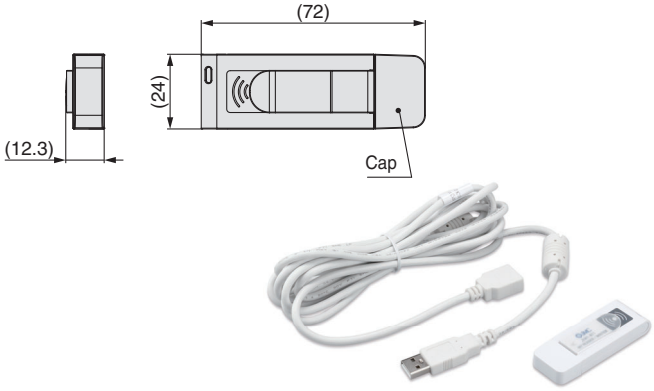
End Plate (U side)

EX600-EU1



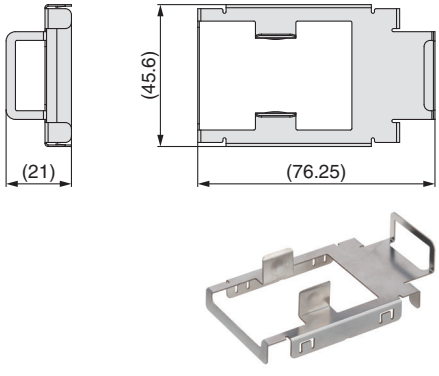
NFC Reader/Writer

EXW1-NT1



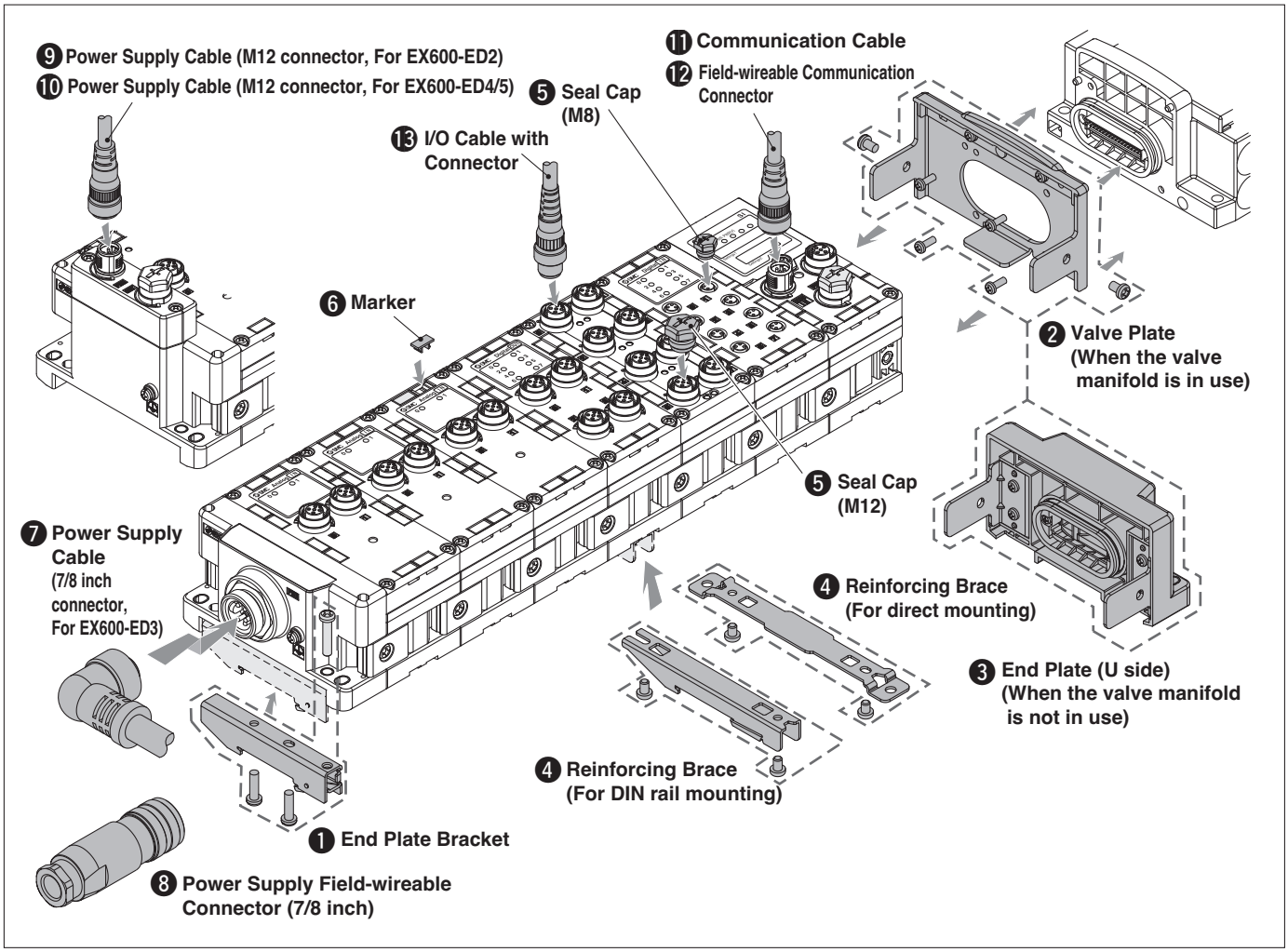
Fixing Bracket

EXW1-AB1 (Option, For EX600-W)



∗ Order a fixing bracket.

EX600-W Series
Accessories (Optional Parts)



❶ 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.

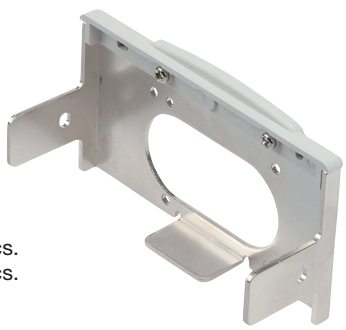
EX600-ZMA3
(For the SY and JSY series)

Enclosed parts

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

❷ Valve Plate

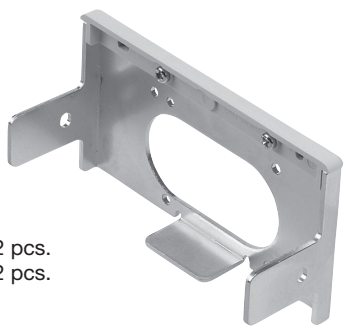
EX600-ZMV1
(For the SV, S0700, and VQC series)



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.

❸ End Plate (U side)

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

EX600- E U 1 - 2

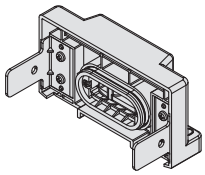
- End plate
- End plate mounting position: U side
- Specification

Symbol	Specification
1	Waterproof cover

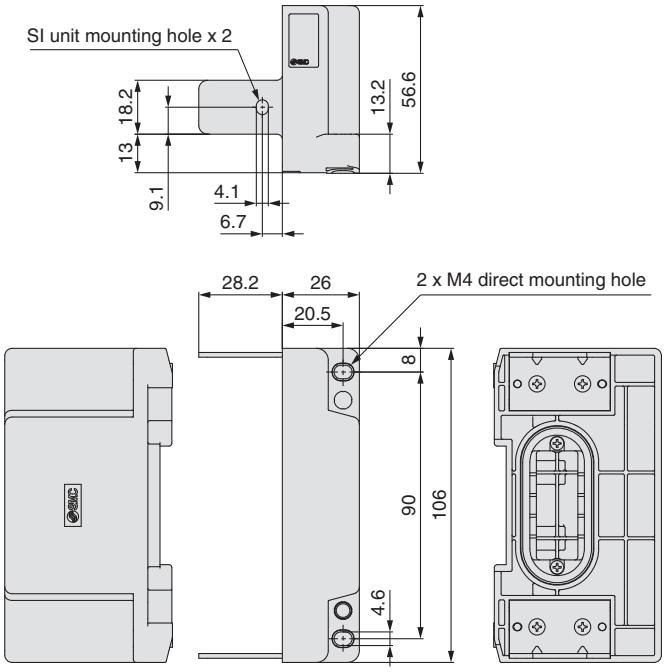
- Mounting method

Symbol	Description	Note
—	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

* Select in accordance with the symbol for the end plate (D side) mounting method.



EX600-EU1



Enclosed parts
Round head screw (M4 x 6) 2 pcs.

❹ Reinforcing Brace

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

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

For direct mounting
EX600-ZMB1



Enclosed parts
Round head screw (M4 x 5) 2 pcs.

For DIN rail mounting
EX600-ZMB2



Enclosed parts
Round head screw (M4 x 6) 2 pcs.

❺ 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
For M8



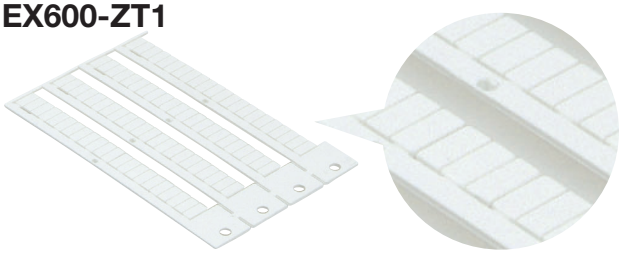
EX9-AWTS
For M12



❻ Marker (1 sheet, 88 pcs.)

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

EX600-ZT1

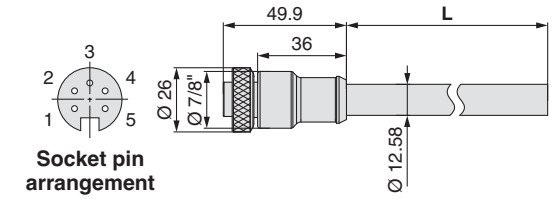


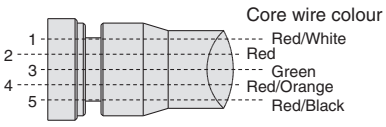
❼ Power Supply Cable (7/8 inch connector, For EX600-ED3)



PCA-1558810 Straight 2 m
PCA-1558823 Straight 6 m
PCA-1558836 Right angled 2 m
PCA-1558849 Right angled 6 m

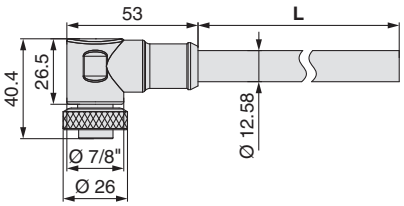
Straight connector type

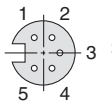


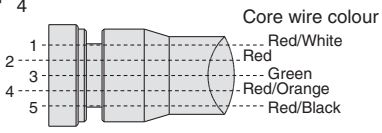


Connections

Angled connector type







Connections

Item	Specifications
Cable O.D.	Ø 12.58 mm
Conductor nominal cross section	1.5 mm²/AWG16
Wire O.D. (Including insulator)	2.35 mm
Min. bending radius (Fixed)	110 mm

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

PCA-1578081 Socket [compatible with AWG22-16]



Applicable Cable

Item	Specifications
Cable O.D.	Ø 12.0 to 14.0 mm
Wire gauge (Stranded wire cross section)	0.34 to 1.5 mm² AWG22 to 16

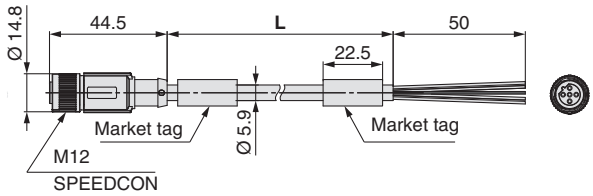
❾ Power Supply Cable (M12 connector, For EX600-ED2) * The shape of the M12 connector is B-coded (Reverse key).

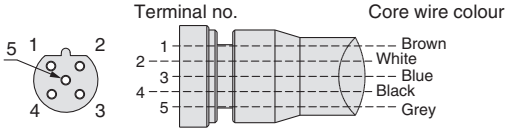
PCA-1564927 Straight 2 m
PCA-1564930 Straight 6 m
PCA-1564943 Right angled 2 m
PCA-1564969 Right angled 6 m



SPEEDCON

Straight connector type

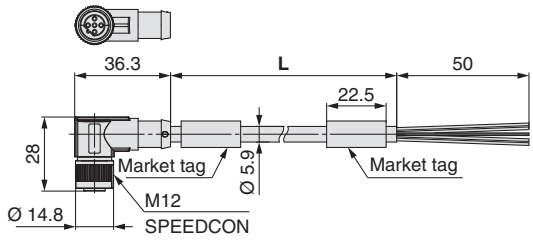


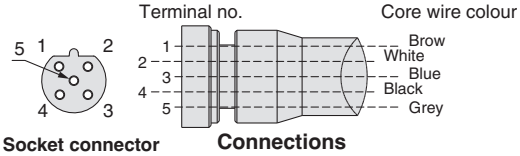


Socket connector pin arrangement
B-coded (Reverse key)

Connections

Angled connector type





Socket connector pin arrangement
B-coded (Reverse key)

Connections

Item	Specifications
Cable O.D.	Ø 5.9 mm
Conductor nominal cross section	0.34 mm²/AWG22
Wire O.D. (Including insulator)	1.27 mm
Min. bending radius (Fixed)	59 mm

⑩ Power Supply Cable (M12 connector, For EX600-ED4/5)

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

EX500-AP 050 - S

Cable length (L)

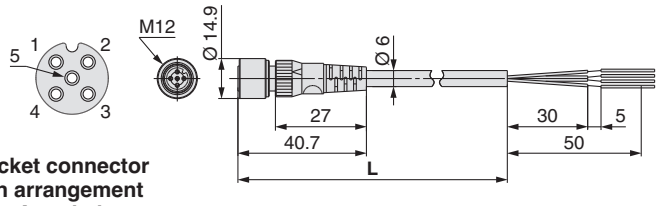
010	1000 mm
050	5000 mm

Connector specification

S	Straight
A	Angled



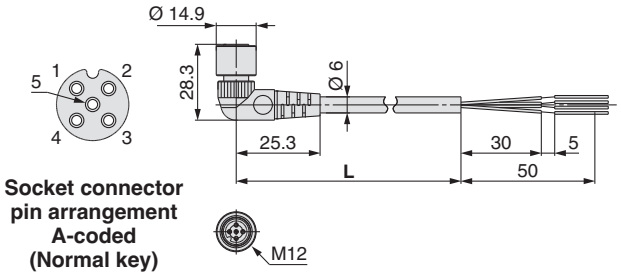
Straight connector type



Socket connector pin arrangement A-coded (Normal key)

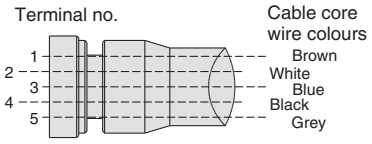
Item	Specifications
Cable O.D.	Ø 6 mm
Nominal cross section	0.3 mm²/AWG22
Wire diameter (Including insulator)	1.5 mm
Min. bending radius	40 mm (Fixed)

Angled connector type



Socket connector pin arrangement A-coded (Normal key)

Item	Specifications
Cable O.D.	Ø 6 mm
Nominal cross section	0.3 mm²/AWG22
Wire diameter (Including insulator)	1.5 mm
Min. bending radius	40 mm (Fixed)



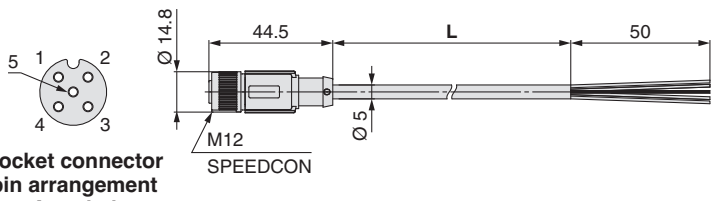
Connections

SPEEDCON

PCA- 1401804

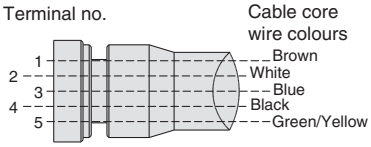
Cable length (L)

1401804	1500 mm
1401805	3000 mm
1401806	5000 mm



Socket connector pin arrangement A-coded (Normal key)

Item	Specifications
Cable O.D.	Ø 5 mm
Nominal cross section	0.3 mm²/AWG22
Wire diameter (Including insulator)	1.27 mm
Min. bending radius	21.7 mm (Fixed)

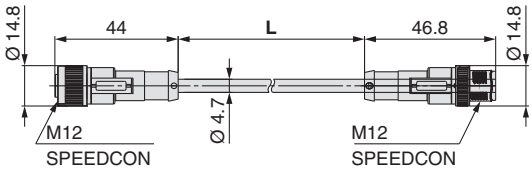


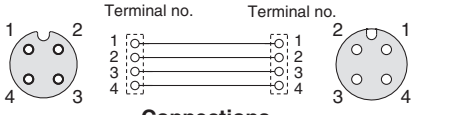
Connections

PCA- 1557769

Cable length (L)

1557769	3000 mm





Socket connector pin arrangement A-coded (Normal key)

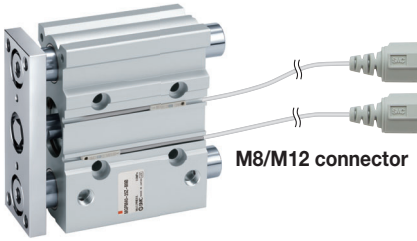
Connections

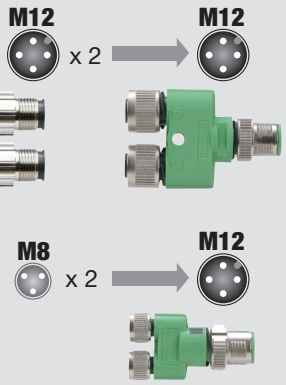
Plug connector pin arrangement A-coded (Normal key)

⓫ I/O Cable with Connector, I/O Connector

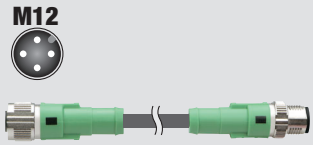
Name	Use	Part no.	Description
Cable with connector	For sensor 	**PCA-1557769**	Cable with M12 connector (4 pins/3 m)
		PCA-1557772	Cable with M8 connector (3 pins/3 m)
Field-wireable connector	For sensor 	**PCA-1557730**	Field-wireable connector (M8/3 pins/Plug/Piercecon® connection)
		PCA-1557743	Field-wireable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

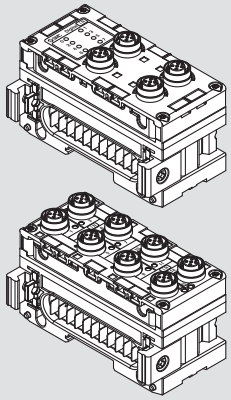




Y connector



Cable with connector

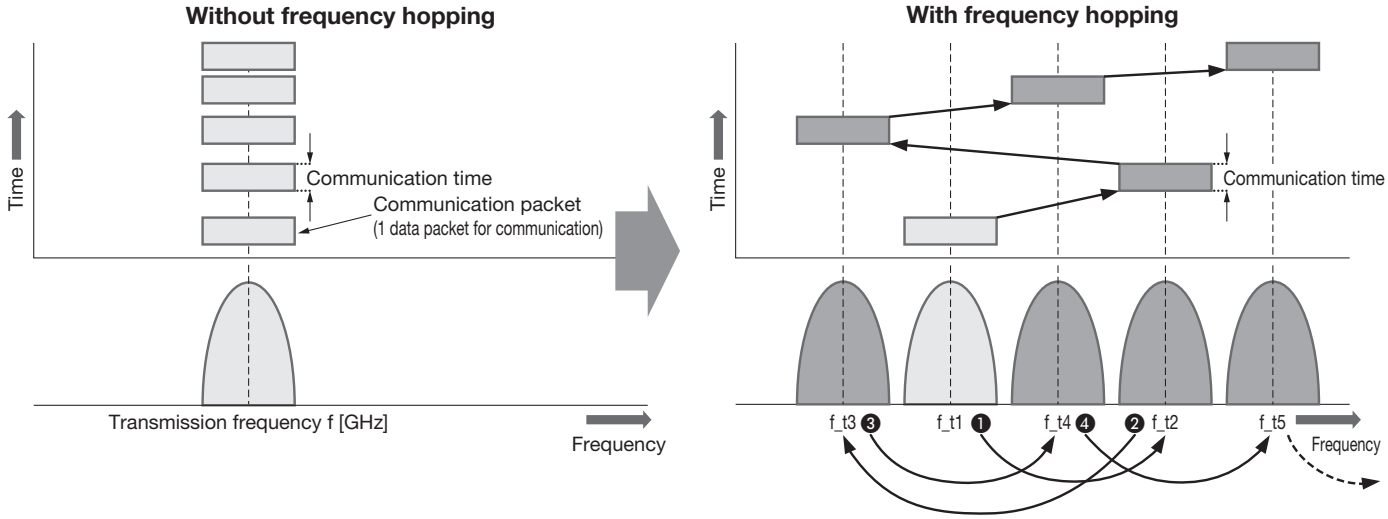


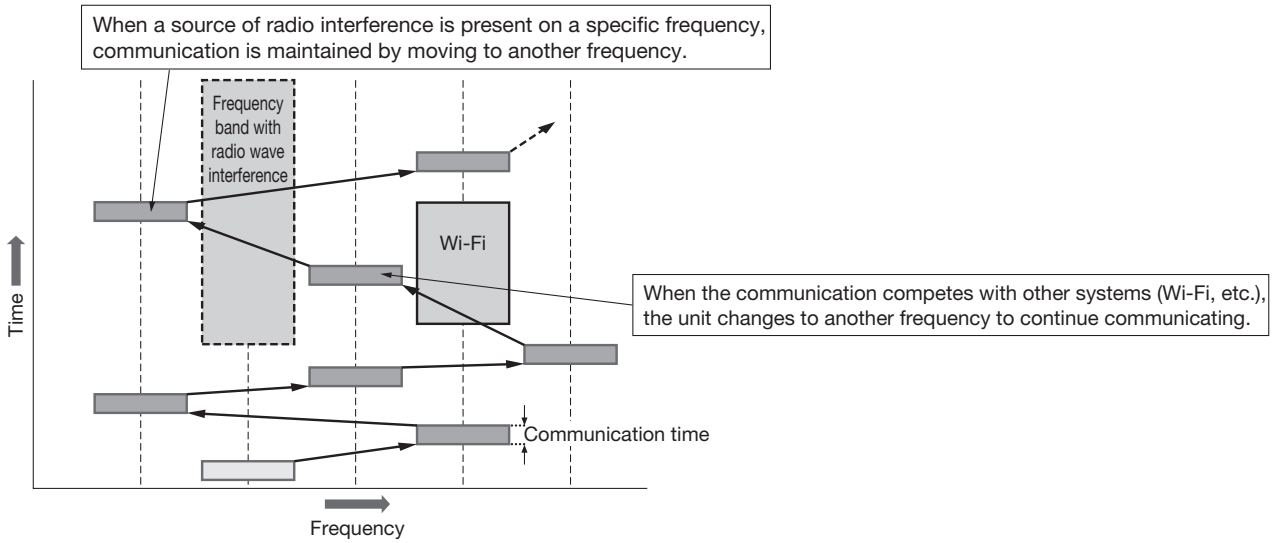
I/O unit

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.



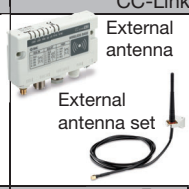


⚠Warning <Important>

- 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 catalogue, 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.

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

As of June 2024

Area	Country/Region	Wireless system: Compact type **EXW1**, Wireless adapter **EXW1-A1□** — Part number suffix: **E** type	Wireless adapter **EXW1-A1□** — Part number suffix: **N** type	Compact base/remote CC-Link/e-CON — Part number suffix: **E** type	Compact base/remote CC-Link/e-CON — Part number suffix: **N** type	Modular type **EX600-W**	NFC reader/writer **EXW1-NT1**
							
Europe CE	Ireland	○	○	○	○	○	○
	Italy	○	○	○	○	○	○
	Estonia	○	○	○	○	○	○
	Austria	○	○	○	○	○	○
	Netherlands	○	○	○	○	○	○
	Cyprus	○	○	○	○	○	○
	Greece	○	○	○	○	○	○
	Croatia	○	○	○	○	○	○
	Sweden	○	○	○	○	○	○
	Spain	○	○	○	○	○	○
	Slovakia	○	○	○	○	○	○
	Slovenia	○	○	○	○	○	○
	Czech Republic	○	○	○	○	○	○
	Denmark	○	○	○	○	○	○
	Germany	○	○	○	○	○	○
	Hungary	○	○	○	○	○	○
	Finland	○	○	○	○	○	○
	France	○	○	○	○	○	○
	Bulgaria	○	○	○	○	○	○
	Belgium	○	○	○	○	○	○
	Poland	○	○	○	○	○	○
	Portugal	○	○	○	○	○	○
	Malta	○	○	○	○	○	○
	Latvia	○	○	○	○	○	○
	Lithuania	○	○	○	○	○	○
	Romania	○	○	○	○	○	○
	Luxembourg	○	○	○	○	○	○
Other Europe	Iceland	○	○	○	○	○	○
	Liechtenstein	○	○	○	○	○	○
	Switzerland	○	○	○	○	○	○
	Norway	○	○	○	○	○	○
	Turkey	○	○	○	○	○	○
	U.K.	○	○	○	○	○	○
	Ukraine	–	–	–	–	○	○
	Israel	○	○	–	–	–	–
	Saudi Arabia	○	○	–	–	–	–
	United Arab Emirates	○	○	–	–	–	–
	Serbia	○	○	–	–	–	–
Africa	South Africa	○	○	–	–	○	○
	Egypt	○	○	–	–	–	–
	Morocco	–	–	–	–	○	○
North, Central, and South America	U.S.	–	○	–	○	○	○
	Argentina	–	○	–	○	○	○
	Canada	–	○	–	○	○	○
	Chile	○	○	–	–	–	○
	Colombia	○	○	○	○	○	○
	Peru	○	○	–	–	–	○
	Brazil	–	○	–	○	○	○
	Mexico	–	○	–	○	○	○
Asia	India	○	○	○	○	○	○
	Pakistan	○	○	–	–	–	–
	Indonesia	○	○	–	–	–	○
	Australia	○	○	○	○	○	○
	South Korea	–	○	–	○	○	○
	Singapore	○	○	–	–	○	○
	Thailand	○	○	○	○	○	○
	China	○	○	○	○	○	○
	Japan	○	○	○	○	○	○
	New Zealand	○	○	○	○	○	○
	Philippines	○	○	–	–	○	○
	Myanmar	○	○	–	–	–	○
	Vietnam	○	○	○	○	○	○
	Bangladesh	○	○	–	–	–	○
	Hong Kong	○	○	○	○	–	○
	Malaysia*1	○	○	○	○	○	○
	Taiwan	–	○	–	–	○	○

*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.smc.eu

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.

■ **Trademark**
DeviceNet® is a registered trademark of ODVA, Inc.
EtherNet/IP® is a registered trademark of ODVA, Inc.
EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.
QuickConnect™ is a trademark of ODVA.

⚠ 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.
etc.

⚠ 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 catalogue 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 catalogues 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 Japan.

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 catalogue 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.	QS
Edition C	- The EXW1 series compact wireless system has been added.	XU
Edition D	- UKCA compliance has been added. - Countries in which the product is Radio Law certified have been added.	XZ
Edition E	- EtherCAT (protocol) has been added to the EXW1 series (compact type). - The number of pages has been increased from 48 to 52.	BX
Edition F	- IO-Link, Ethernet, PROFINET and OPC UA have been added as a protocol for the compact type EXW1 series wireless remote. - The number of pages has been increased from 52 to 58.	CR
Edition G	- DeviceNet has been added to the EXW1 series (compact type). - The number of pages has been increased from 60 to 67.	DR
Edition H	- Analogue input, digital input/output, and valve manifold have been added to the compact type EXW1 series. - The number of pages has been increased from 67 to 72.	DU

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Specifications are subject to change without prior notice and any obligation on the part of the manufacturer