

Wireless System Compact Type **EXW1 Series**



How to Order

Compact Wireless Base



Modbus TCP **SLMP**



EXW1 - B EC AC

Base

Communication protocol

Symbol	Protocol
EC *1	EtherCAT
EN	EtherNet/IP™
PN	PROFINET
DN	DeviceNet®
MT	Modbus TCP, SLMP

*1 Note that the EXW1-BECAC is not applicable for use in Taiwan.

*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.

Antenna specification for wireless communication*1

Symbol	Antenna specification
C	Wireless adapter

Connector

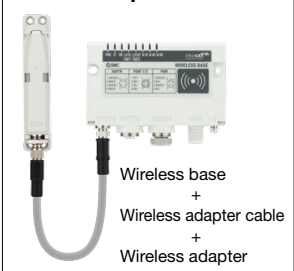
Symbol	Connector interface
A	M12

OPC UA Compliant

Symbol	OPC UA Compliant
Nil	×
1 *2	○

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

Components



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 - Modbus TCP, SLMP: EXW1-BMTAC - Air Management Hub (EXA1-□) - Remote (IO-Link) (EXW1-RL□) - Remote (Analog input) (EXW1-RAX□) - Remote (Digital input/output) (EXW1-RD□G□) - Remote (Valve manifold) (EXW1-RDY□□□□)

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.



EXW1 Series

How to Order

Compact Wireless Base (CC-Link)

CC-Link



External antenna set

Compact wireless

Base

Communication protocol

Symbol	Protocol
MJ	CC-Link

Connector

Symbol	Connector interface
A	M12

- * 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.

EXW1 - B M J A B E

Frequency channel selection

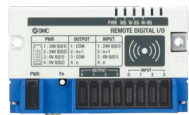
Symbol	Number of selectable frequency channels	Applicable countries
E	Min. 5/Max. 79 channels	Radio Law certified countries other than the U.S., Canada, South Korea, Brazil, Argentina, and Mexico
N	Min. 15/Max. 79 channels	Radio Law certified countries including the U.S., Canada, South Korea, Brazil,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

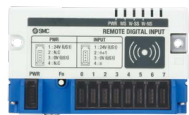
Antenna specification for wireless communication

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

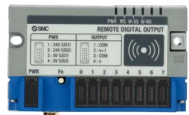
Compact Wireless Remote (Digital Input/Output/e-CON)



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

EXW1 - R D M P E3 B E

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)

Option

Symbol	Option
Nil	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.

Bracket type

Symbol	Bracket type
1	Bracket ①
2	Bracket ②

* EX600-WD□A1 interchangeable bracket

Antenna specification for communication

Symbol	Connector interface
C	Wireless adapter

* 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

Option

Symbol	Option
Nil	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.

Antenna specification for wireless communication

Symbol	Connector interface
C	Wireless adapter

Wireless Adapter Cover

EXW1 - AB6

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



EXW1 Series

How to Order

Compact Wireless Remote (IO-Link)



EXW1 - R L A P A8 C

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)
- * When using with an EXW1-BECAC, EXW1-BENAC1, EXW1-BPNAC1, or EXW1-BMTAC wireless base, the IO-Link device can be set using the IO-Link Device Tool V5-PE manufactured by TMG. A separate license key for the IO-Link Device Tool is required for setting. (For details ⇒ p. 54)
- * 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

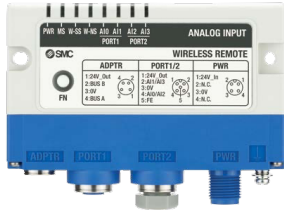


Wireless remote
+
Wireless adapter cable
+
Wireless adapter
+ (When the port class A, 4-port type is used)
Y branch connector (2 pcs.)



How to Order

Compact Wireless Remote (Analog input)



EXW1-RAXZA2C

Wireless remote

Type

Symbol	Description
A	Analog

Type

Symbol	Description
X	Input

Antenna specification for wireless communication

Symbol	Connector interface
C	Wireless adapter

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 analog device connector.

Polarity

Symbol	Description
Z	None

- * 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.

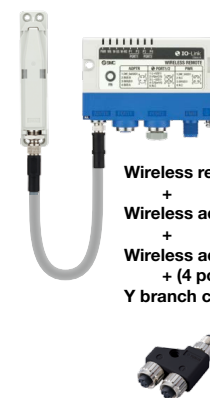
Y branch connector (Option)

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		

EXW1 Series

Accessories

Made to Order

EX600-W Series

Accessories

Technical Data

Country-specific Radio Law Compliance Table

Specific Product Precautions

EXW1 Series

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 $5 \leq f < 8.4 \text{ Hz}$ 3.5 mm $8.4 \leq f < 150 \text{ Hz}$ 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**EtherCAT (EXW1-BECAC)
Communication Specifications**

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

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

Electrical Specifications

Item	Specifications
US1 (for control) power supply voltage range	24 VDC $\pm 10\%$
Internal current consumption	150 mA or less (200 mA or less when a wireless adapter is connected)

General Specifications

Item	Specifications
Enclosure	IP67
Vibration resistance	EN 61131-2 compliant $5 \leq f < 8.4 \text{ Hz}$ 3.5 mm $8.4 \leq f < 150 \text{ Hz}$ 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 (EXW1-BENAC1)
Communication Specifications**

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

Electrical Specifications

Item	Specifications
US1 (for control) power supply voltage range	24 VDC $\pm 10\%$
Internal current consumption	150 mA or less (200 mA or less when a wireless adapter is connected)

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 $5 \leq f < 8.4 \text{ Hz}$ 3.5 mm $8.4 \leq f < 150 \text{ Hz}$ 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

EXW1 Series

Accessories

Made to Order

EX600-W Series

Accessories

Technical Data

Country-specific Radio Law Compliance Table

Specific Product Precautions

EXW1 Series

Specifications: Compact Wireless Base

PROFINET (EXW1-BPNAC1) Communication Specifications

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

Electrical Specifications

Item	Specifications
US1 (for control) power supply voltage range	24 VDC $\pm 10\%$
Internal current consumption	150 mA or less (200 mA or less when a wireless adapter is connected)

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 $5 \leq f < 8.4$ Hz 3.5 mm $8.4 \leq f < 150$ 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

Modbus TCP, SLMP (EXW1-BMTAC) Communication Specifications

Item	Specifications	
Communication protocol*1	Modbus TCP Server	SLMP (QnA compatible 3E frame) Server
Transmission medium (cable)	Standard Ethernet cable (CAT5 or higher, 100BASE-TX)	
Communication speed	10 Mbps/100 Mbps	
Communication method	Full duplex/Half duplex	
IP address setting	Manual/BOOTP, DHCP	
Communication method	TCP/IP	TCP/IP UDP/IP
Data type	Binary	Binary/ASCII
Process occupation area (Number of inputs/outputs)	Max. 11520 inputs/11520 outputs (1440 bytes/1440 bytes)	
Web server function	Supported	

*1 Either Modbus TCP or SLMP can be used.

Electrical Specifications

Item	Specifications
US1 (for control) power supply voltage range	24 VDC $\pm 10\%$
Internal current consumption	100 mA or less (150 mA or less when a wireless adapter is connected)

General Specifications

Item	Specifications
Enclosure	IP67
Vibration resistance	EN 61131-2 compliant $5 \leq f < 8.4$ Hz 3.5 mm $8.4 \leq f < 150$ 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

Specifications: Compact Wireless Base**DeviceNet (EXW1-BDNAC)
Communication Specifications**

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 (150 mA or less when a wireless adapter is connected)

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/s²
Impact resistance	EN 61131-2 compliant, 147 m/s², 11 ms
Standards	CE/UKCA marking, UL (CSA)
Weight	150 g

**CC-Link (EXW1-BMJA□)
Communication Specifications**

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.smcworld.com>

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/s²
Impact resistance	EN 61131-2 compliant, 147 m/s², 11 ms
Standards	CE/UKCA marking
Weight	150 g (Body), 100 g (External antenna set)

EXW1 Series

Accessories

Made to Order

EX600-W Series

Accessories

Technical Data

Country-specific Radio
Law Compliance TableSpecific Product
Precautions

EXW1 Series

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	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	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)	
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	
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	EXW1-RDXPE4□□	EXW1-RDXNE4□□
US1 (for control/input) power supply voltage range	24 VDC ±10%	
Internal current consumption	100 mA or less	
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	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)	
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	50 mA or less (100 mA or less when a wireless adapter is connected)
Isolation	Yes (between US1 and US2)
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
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	50 mA or less (100 mA or less when a wireless adapter is connected)
Isolation	Yes (between US1 and US2)
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	50 mA or less (100 mA or less when a wireless adapter is connected)
Isolation	Yes (between US1 and US2)
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)

EXW1 Series

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

Electrical Specifications

Item	Specifications
US1 (for control) power supply voltage range	24 VDC $\pm 10\%$
US2 (for output) power supply voltage range	24 VDC $\pm 10\%$
US1 (for control) current consumption	50 mA or less (100 mA or less when a wireless adapter is connected)
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 $\pm 10\%$
US2 power supply voltage range (for driving)	24 VDC $\pm 10\%$
Current consumption	100 mA or less (150 mA or less when a wireless adapter is connected)
Device power supply (L+)	0.5 A/Connector (1 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 $+50^{\circ}\text{C}$ Storage/Shipping: -20°C to $+60^{\circ}\text{C}$
Vibration resistance (Conforming to EN61131-2)	$5 \leq f < 8.4 \text{ Hz}$ 3.5 mm $8.4 \leq f \leq 150 \text{ Hz}$ 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

EXW1 Series

Accessories

Made to Order

EX600-W Series

Accessories

Technical Data

Country-specific Radio Law Compliance Table

Specific Product Precautions

EXW1 Series

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

Electrical Specifications

Item	Specifications	
Input type	Voltage input	Current input
Power supply voltage range	24 VDC $\pm$ 10%	
Current consumption	50 mA or less (100 mA or less when a wireless adapter is connected)	
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 k Ω	240 Ω
Linearity (25°C)	$\pm$ 0.05% F.S. or less	
Repeatability (25°C)	$\pm$ 0.15% F.S. or less	
Accuracy (25°C)	$\pm$ 0.5% F.S. or less	$\pm$ 0.6% F.S. or less

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

General Specifications

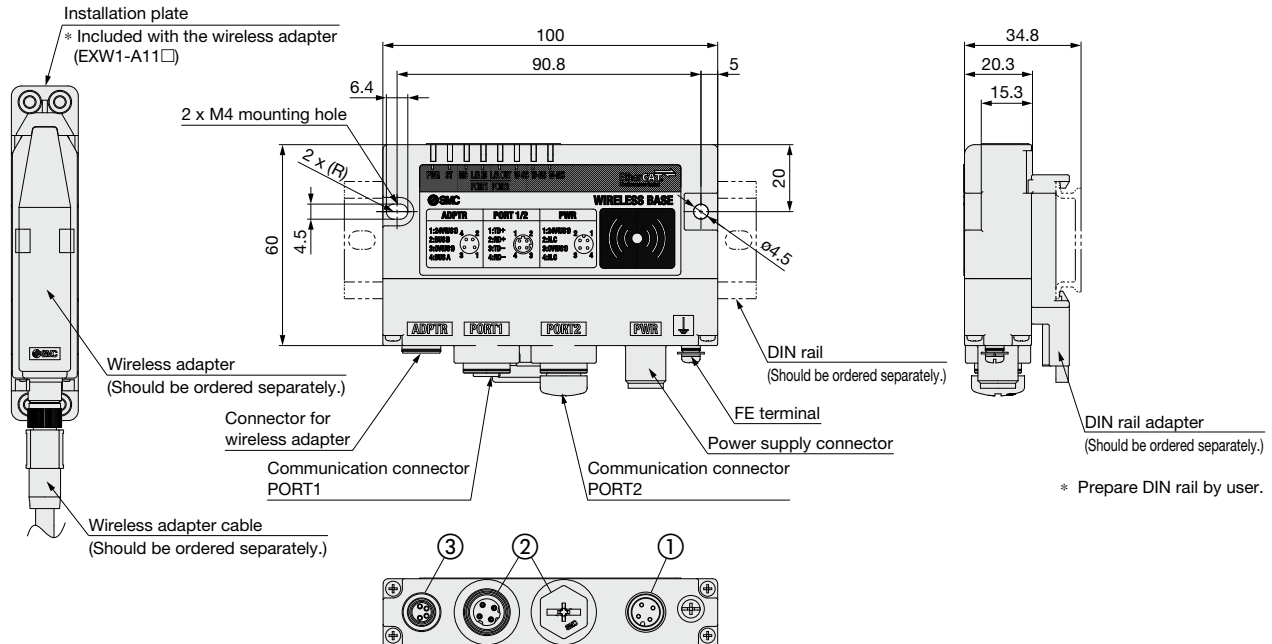
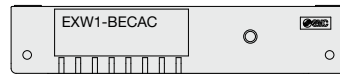
Item	Specifications
Enclosure	IP67*2
Ambient temperature (Operating temperature)	-10 to +55°C
Ambient temperature (Storage temperature)	-20 to +60°C
Ambient humidity	35 to 85%RH (No condensation)
Withstand voltage	1000 VAC 1.0 min. External terminals (including the FE terminal) and enclosure screws
Insulation resistance	10 M Ω or more 500 VDC External terminals (including the FE terminal) and enclosure screws
Vibration resistance	Conforms to EN 61131-2 5 $\leq$ f < 8.4 Hz 3.5 mm 8.4 $\leq$ 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 $\Rightarrow$ p. 54)

Dimensions/Parts Description

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

EXW1-BECAC
EXW1-BENAC1
EXW1-BPNAC1
EXW1-BMTAC



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-	

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	

② EtherNet/IP, Modbus TCP, SLMP communication connector

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

* The compact wireless base (EtherCAT®, EtherNet/IP™, PROFINET, DeviceNet®, Modbus TCP, SLMP) 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.

EXW1 Series

Accessories

Made to Order

EX600-W Series

Accessories

Technical
Data

Country-specific Radio
Law Compliance Table

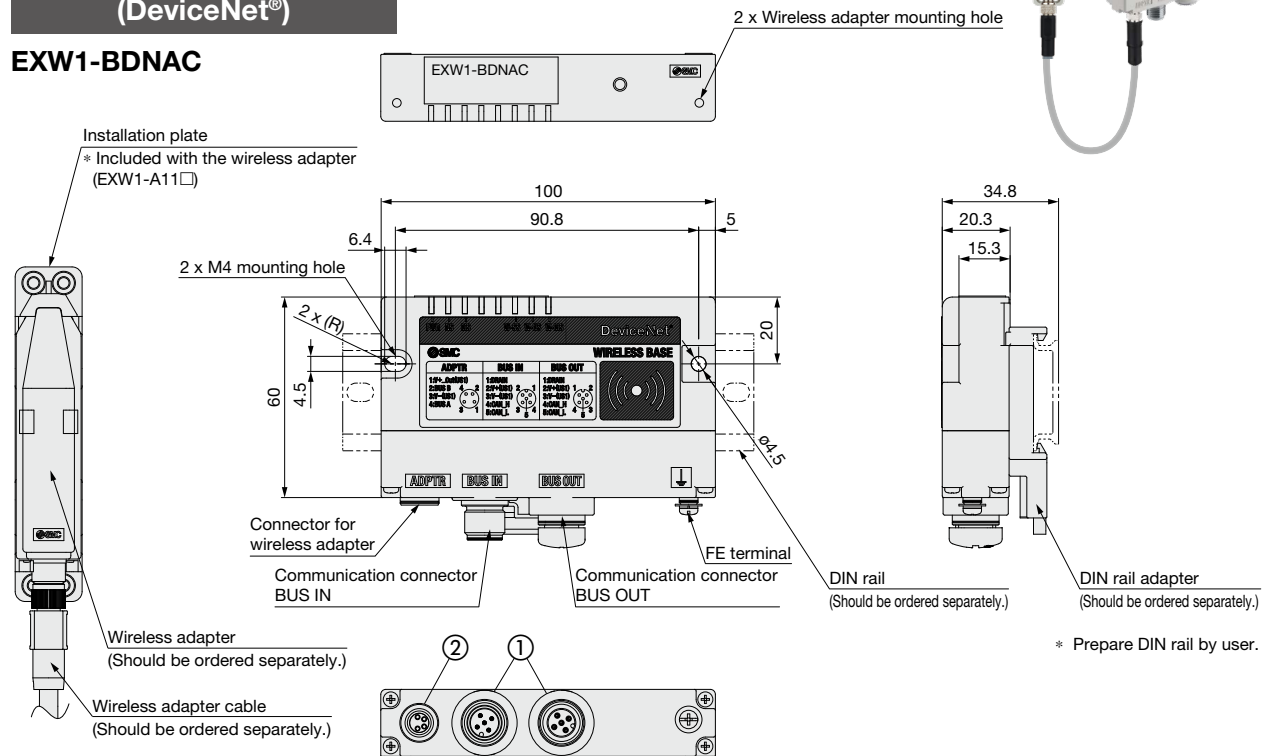
Specific Product
Precautions

EXW1 Series

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-coded	Signal	Description	M12, 5-pin, socket A-coded
1	DRAIN	Drain		DRAIN	Drain	
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

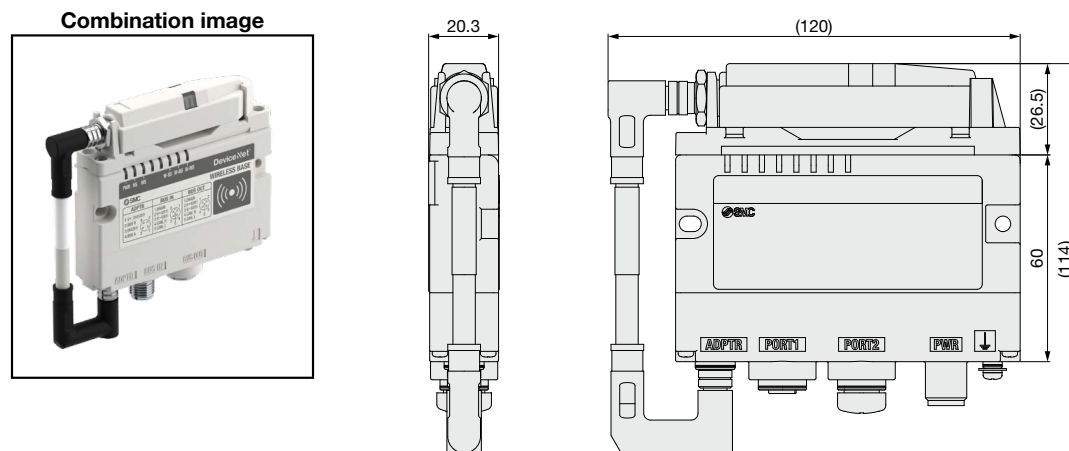
No.	Signal	M8, 4-pin, socket
1	V+_Out (US1)	
2	Internal BUS B	
3	V- (US1)	
4	Internal BUS A	

* 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.

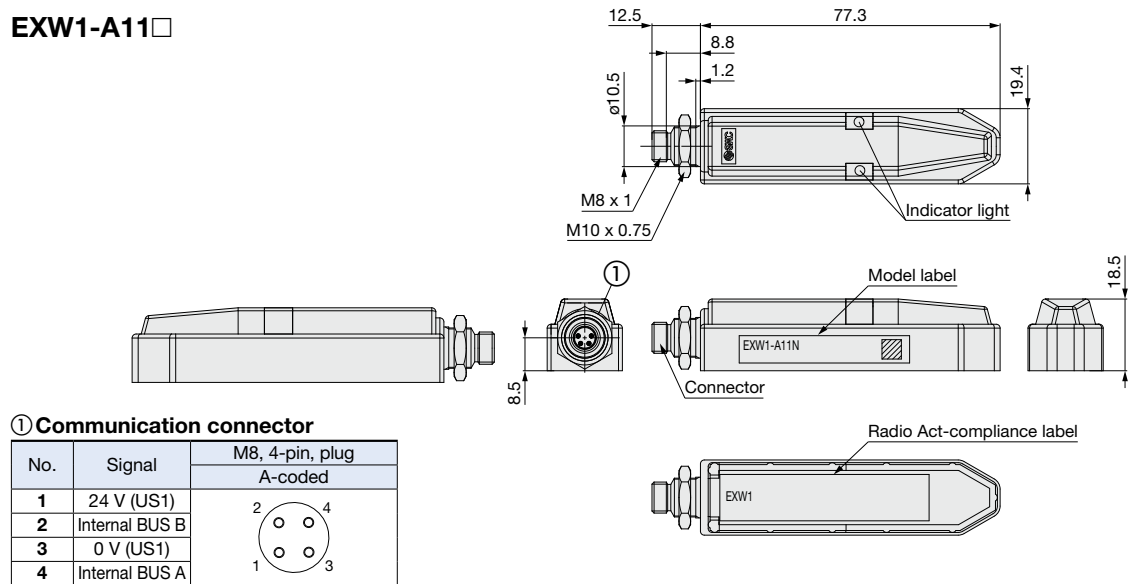
■ Dimensions when the wireless adapter, cable for the wireless adapter (EXW1-AC001-SAPU), and installation plate are combined



Dimensions/Parts Description

Wireless Adapter

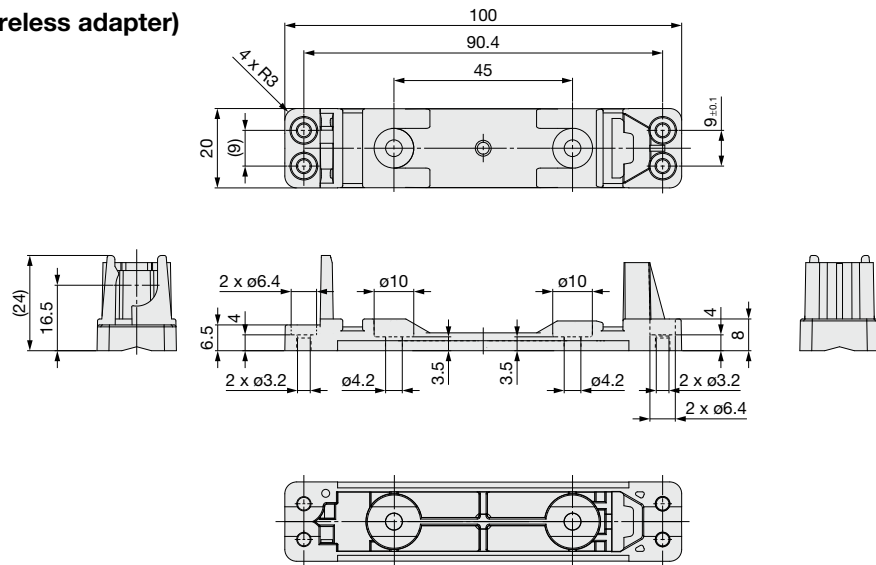
EXW1-A11□



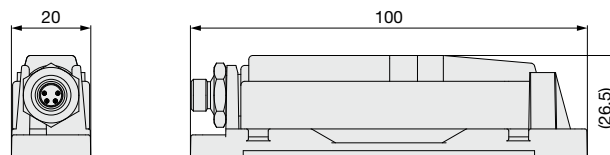
Installation Plate

EXW1-AB4 (Option for wireless adapter)

* Included with the EXW1-A11□



■ Dimensions when the wireless adapter and installation plate are combined

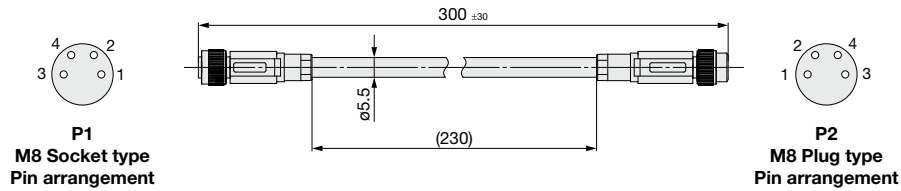


EXW1 Series

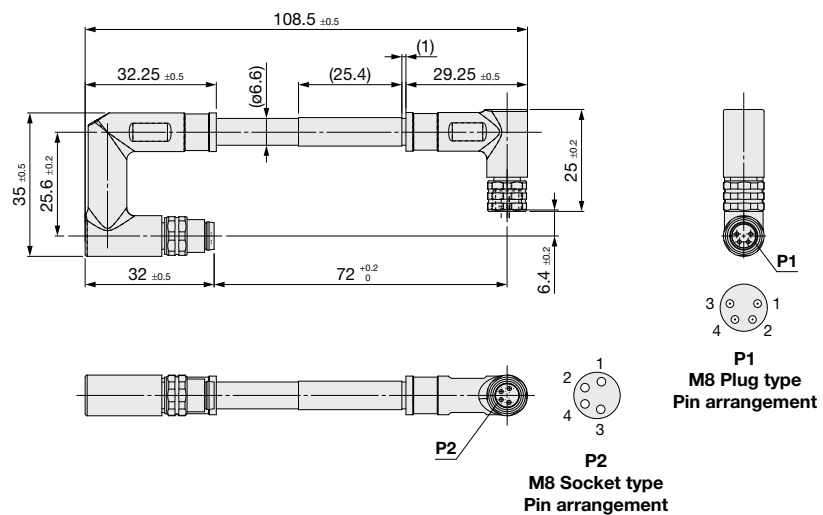
Dimensions/Parts Description

Wireless Adapter Cable

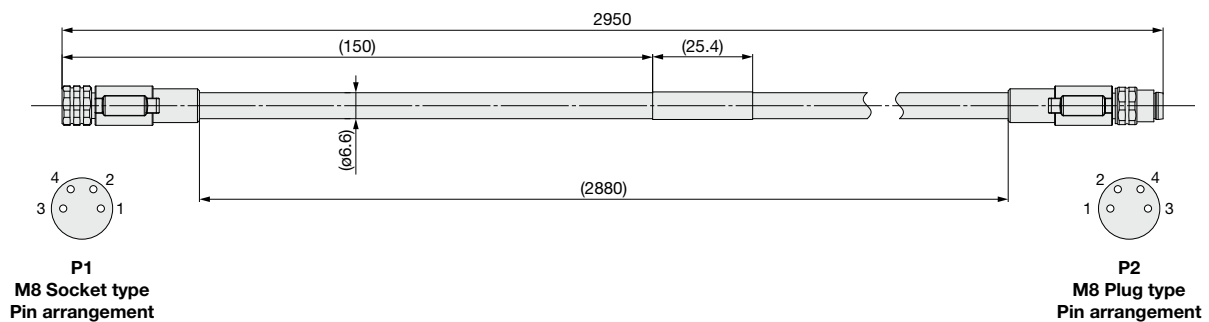
EXW1-AC1-X1



EXW1-AC001-SAPU



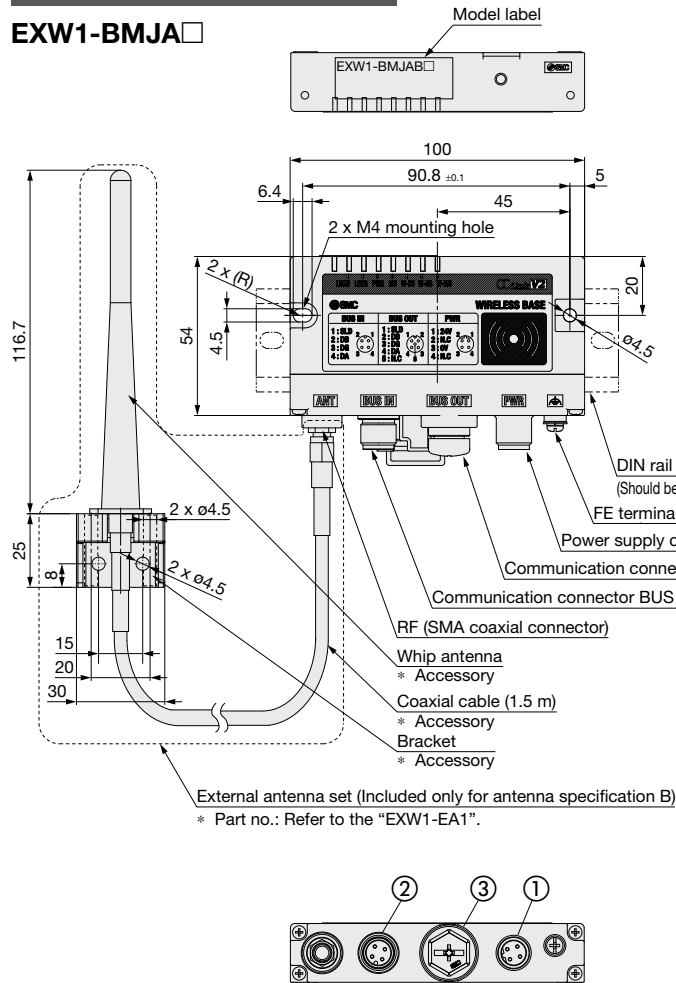
EXW1-AC030-SSPS



Dimensions/Parts Description

Compact Wireless Base (CC-Link)

EXW1-BMJA □



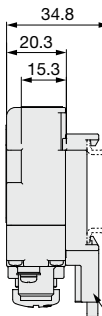
Internal antenna



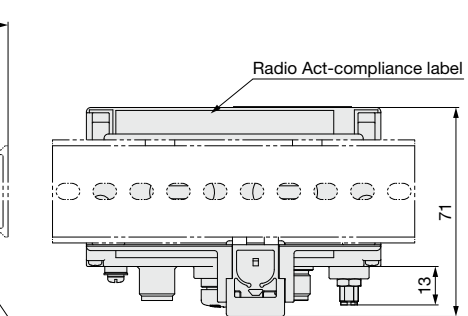
External antenna



External antenna set



DIN rail
(Should be ordered separately.)



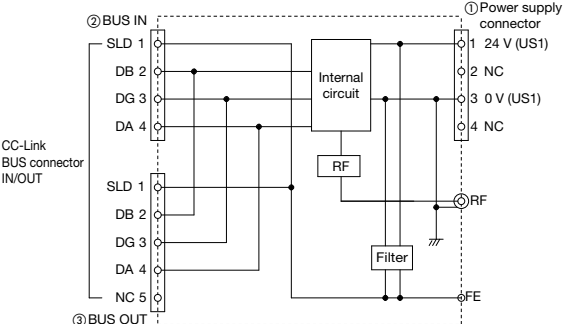
DIN rail adapter
(Should be ordered separately.)

Radio Act-compliance label

* The seal cap is attached when shipped.

* Prepare DIN rail by user.

Internal circuit



EXW1 Series

Dimensions/Parts Description

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

EXW1-RDM□□□□



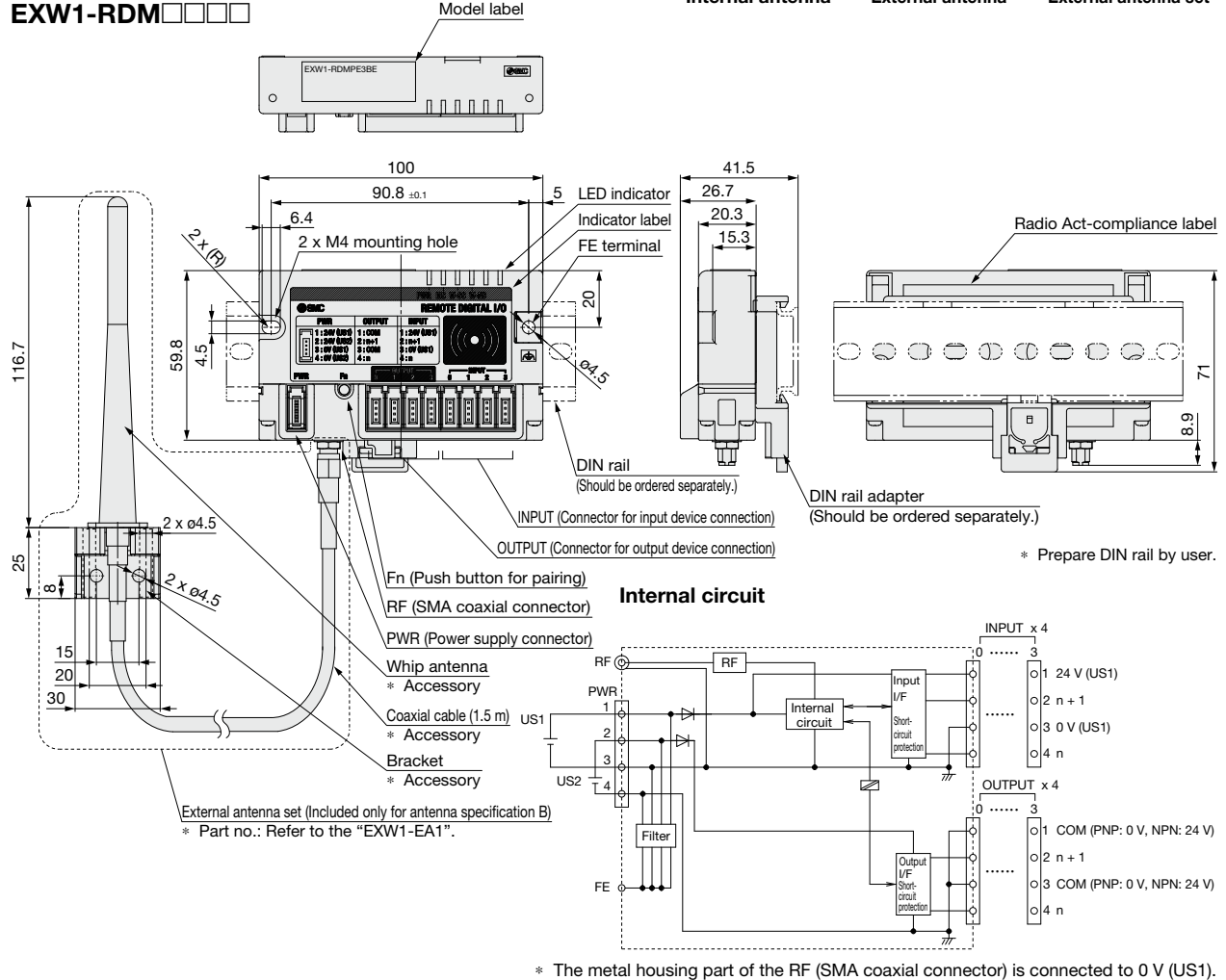
Internal antenna



External antenna



External antenna set



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.

Compact Wireless Remote (Digital Input/e-CON)

Model label



Internal antenna



External antenna



External antenna set



PWR
(Power supply connector)

INPUT
(Connector for input device connection)

EXW1 Series

Accessories

Made to Order

EX600-W Series

Accessories

Technical Data

Country-specific Radio Law Compliance Table

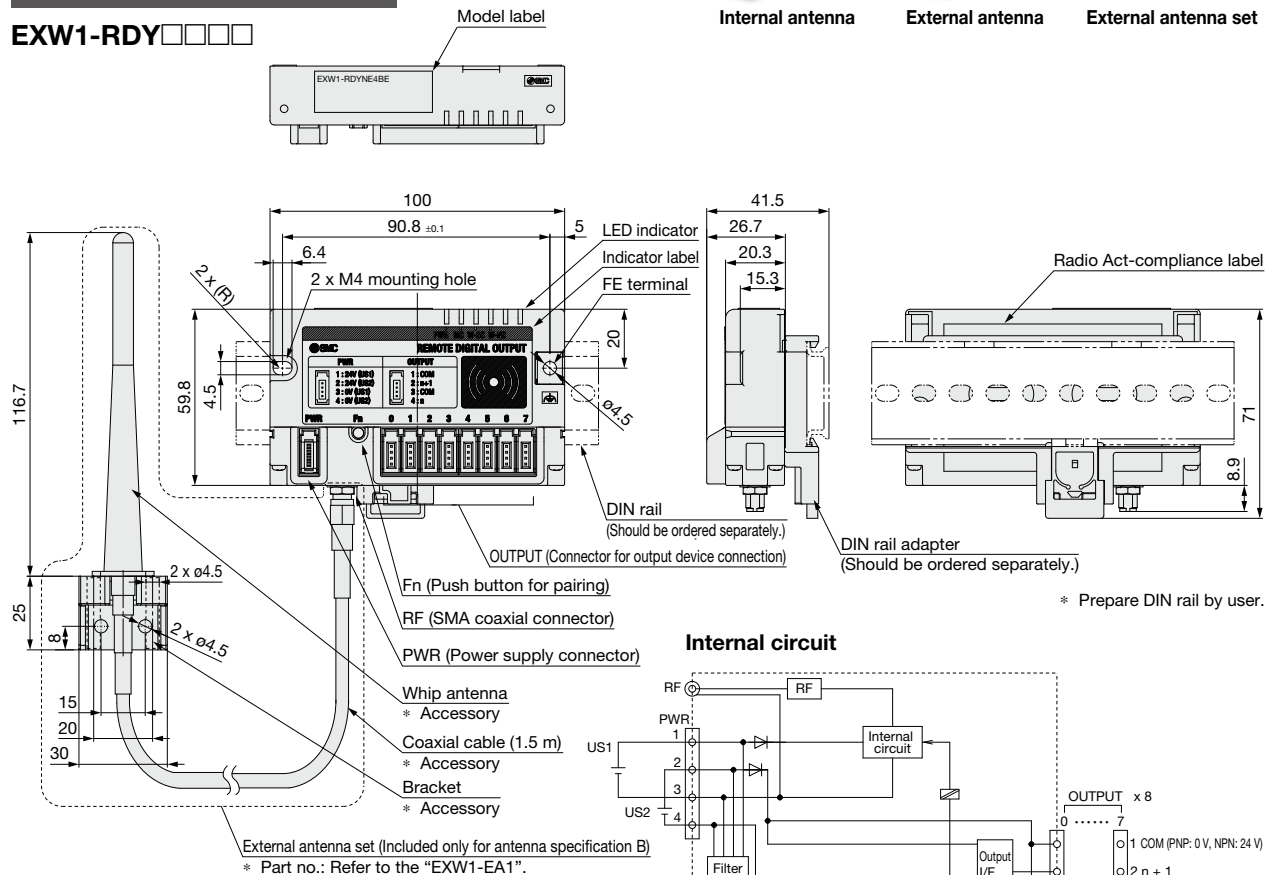
Specific Product Precautions

EXW1 Series

Dimensions/Parts Description

Compact Wireless Remote (Digital Output/e-CON)

EXW1-RDY□□□□



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□□)

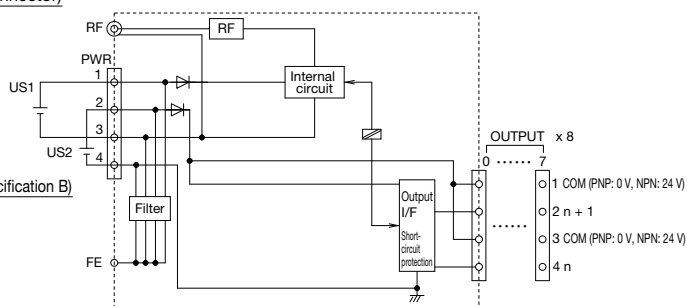
	Pin no.	Description
	1	-COM (US2_0 V)
	2	n + 1
	3	-COM (US2_0 V)
	4	n

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

Internal circuit

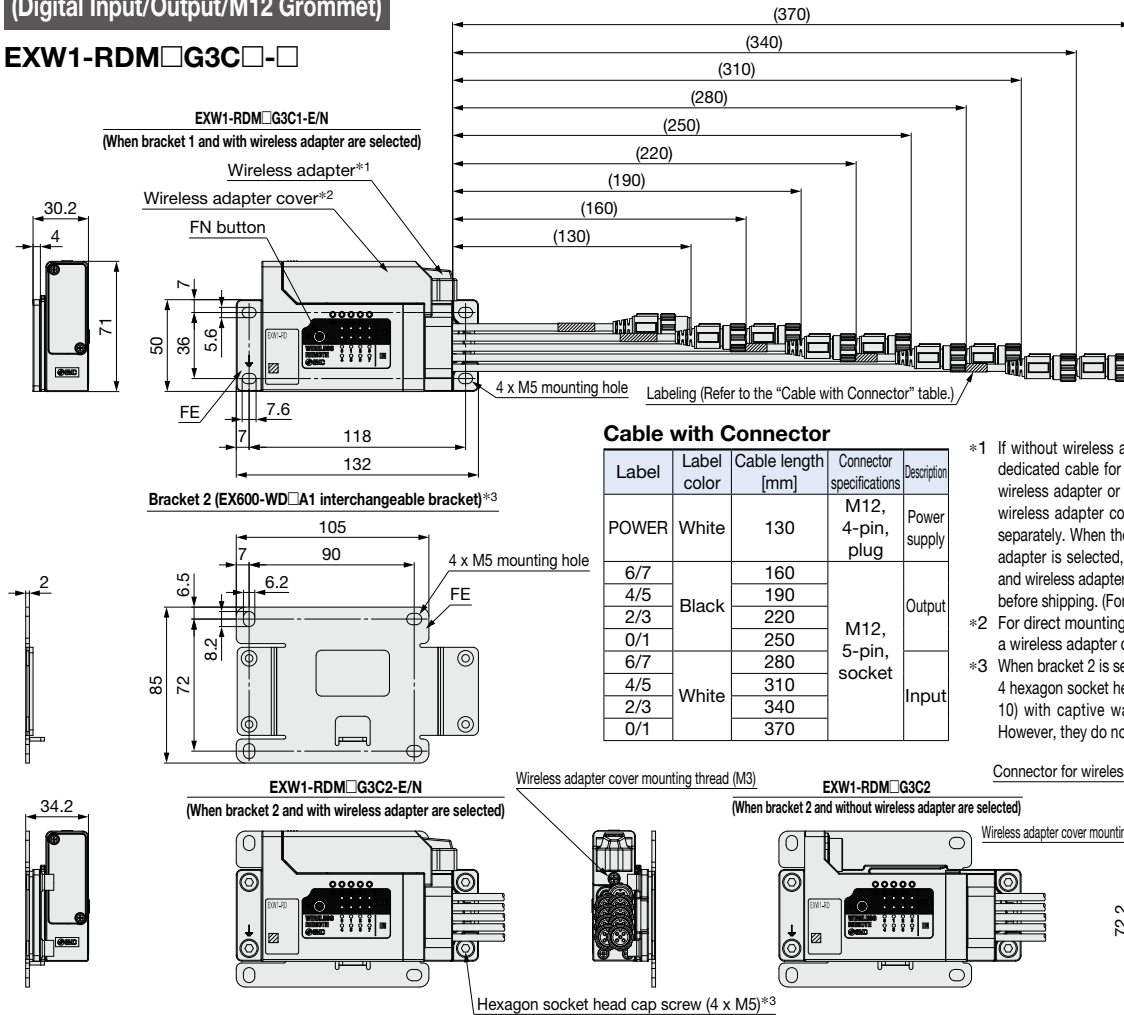


* The metal housing part of the RF (SMA coaxial connector) is connected to 0 V (US1).

Dimensions/Parts Description

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

EXW1-RDM□G3C□-□



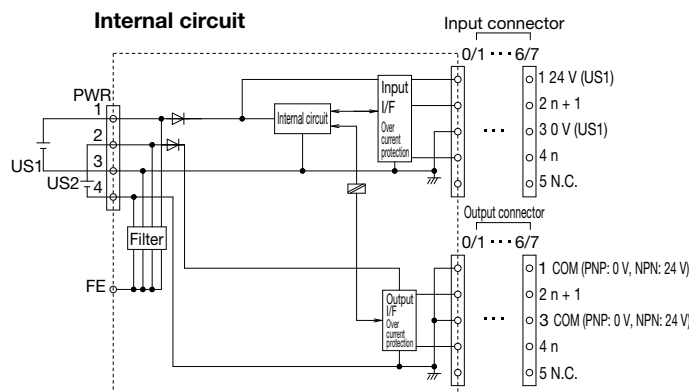
Cable with Connector

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	M12, 5-pin, socket	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 10) with captive washers are included. However, they do not come assembled.



* 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	1
2	Internal BUS B	For wireless adapter communication	3
3	0 V (US1)	0 VDC (US1)	2
4	Internal BUS A	For wireless adapter communication	4

*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
2	24 V (US2)	24 VDC (US2): Input*1	1
3	0 V (US1)	0 VDC (US1)	3
4	0 V (US2)	0 VDC (US2)	4

*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	1
2	n + 1	Digital input: n + 1	2
3	0 V (US1)	0 VDC (US1)	5
4	n	Digital input: n	4
5	N.C.	N.C.	3

*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	1
2	n + 1	Digital output: n + 1*3	2
3	COM	Common*2	5
4	n	Digital output: n*3	4
5	N.C.	N.C.	3

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

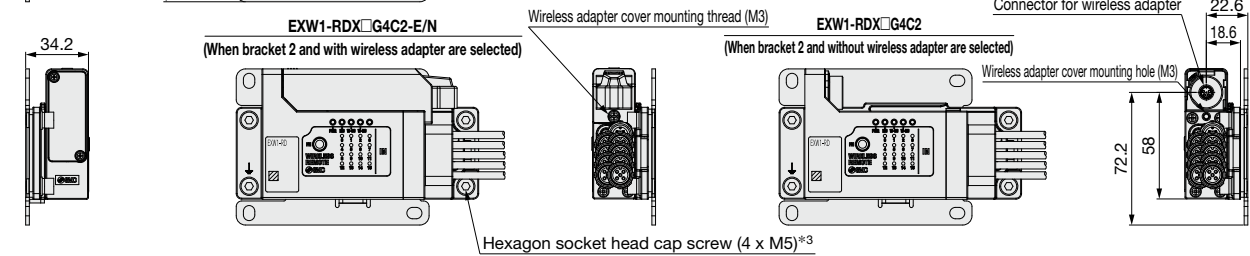
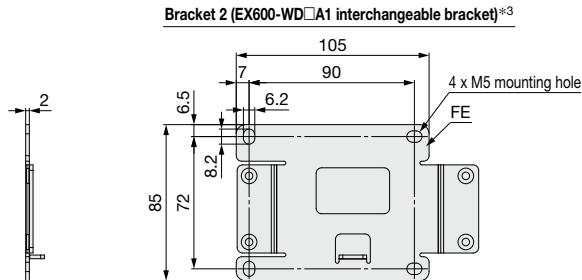
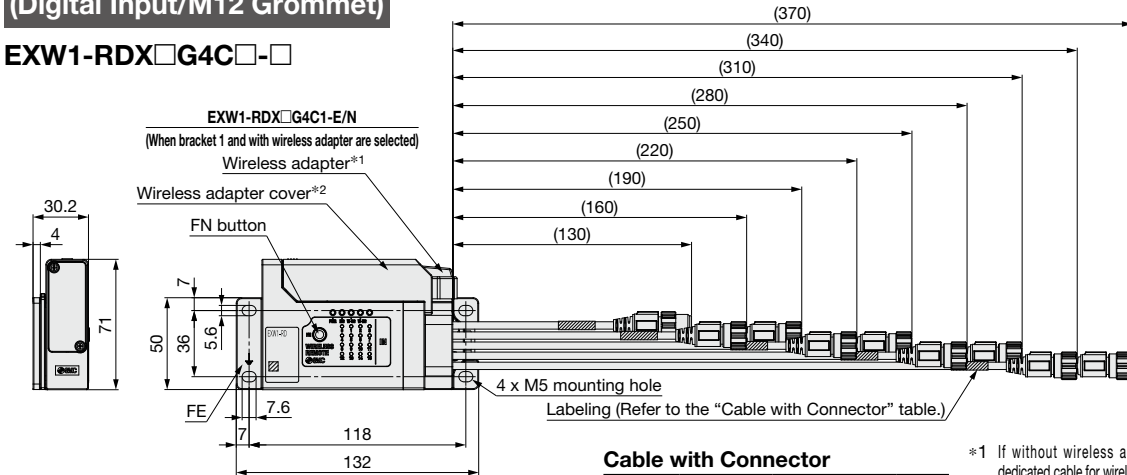
*3 24 VDC (US2) for PNP type and 0 VDC (US2) for NPN type are output.

EXW1 Series

Dimensions/Parts Description

Compact Wireless Remote (Digital Input/M12 Grommet)

EXW1-RDX□G4C□-□



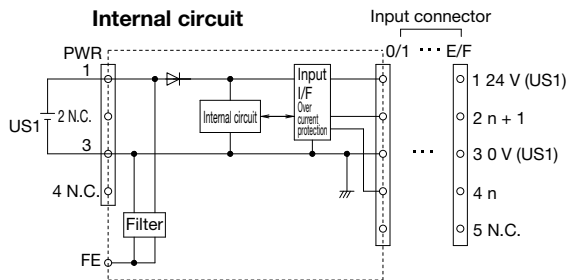
Cable with Connector

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.



* 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
2	N.C.	N.C.	1
3	0 V (US1)	0 VDC (US1)	3
4	N.C.	N.C.	4

*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	1
2	n + 1	Digital input: n + 1	2
3	0 V (US1)	0 VDC (US1)	5
4	n	Digital input: n	4
5	N.C.	N.C.	3

*2 Do not input power.

Connector for Wireless Adapter

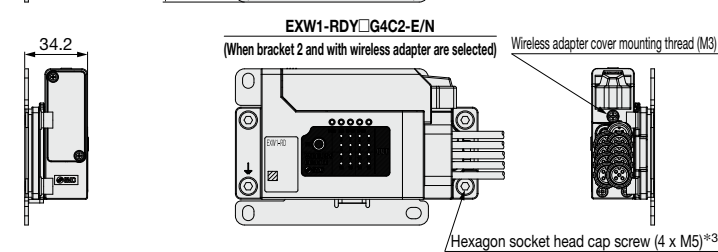
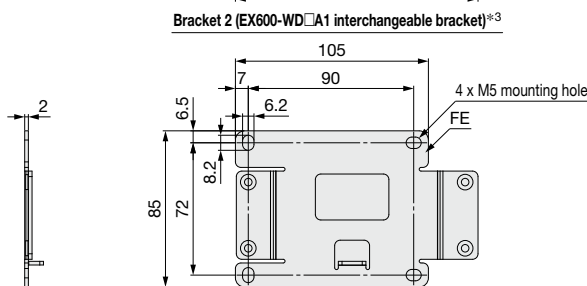
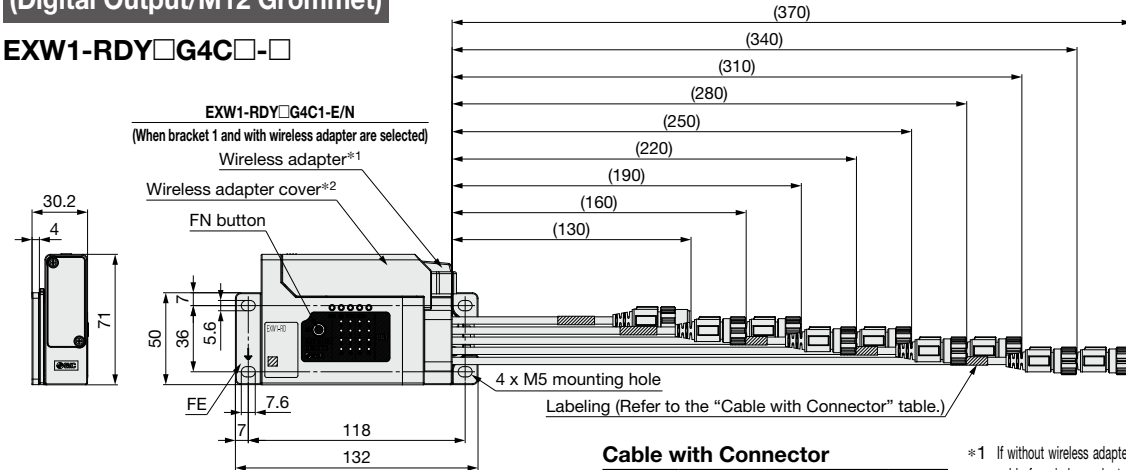
Pin no.	Signal	Description	M8, 4-pin, socket
1	24 V (US1)	24 VDC (US1): Output*1	1
2	Internal BUS B	For wireless adapter communication	3
3	0 V (US1)	0 VDC (US1)	2
4	Internal BUS A	For wireless adapter communication	4

*1 Do not input power.

Dimensions/Parts Description

Compact Wireless Remote (Digital Output/M12 Grommet)

EXW1-RDY□G4C□-□



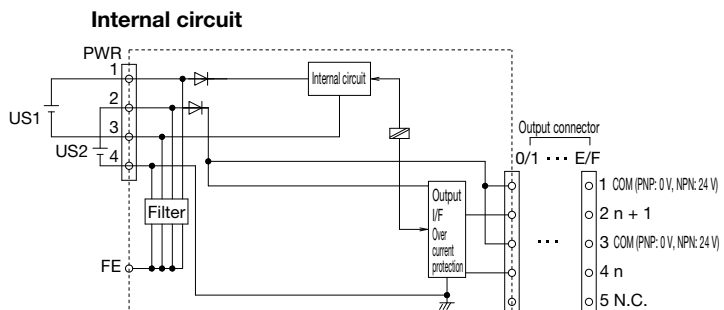
Cable with Connector

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.



* Bracket 1 and 2 are FE.

Power Supply Connector (POWER)

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

*1 Input 24 VDC $\pm 10\%$.

Output Connector (0/1 to E/F)

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

*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	1
2	Internal BUS B	For wireless adapter communication	3
3	0 V (US1)	0 VDC (US1)	2
4	Internal BUS A	For wireless adapter communication	4

*1 Do not input power.

EXW1 Series

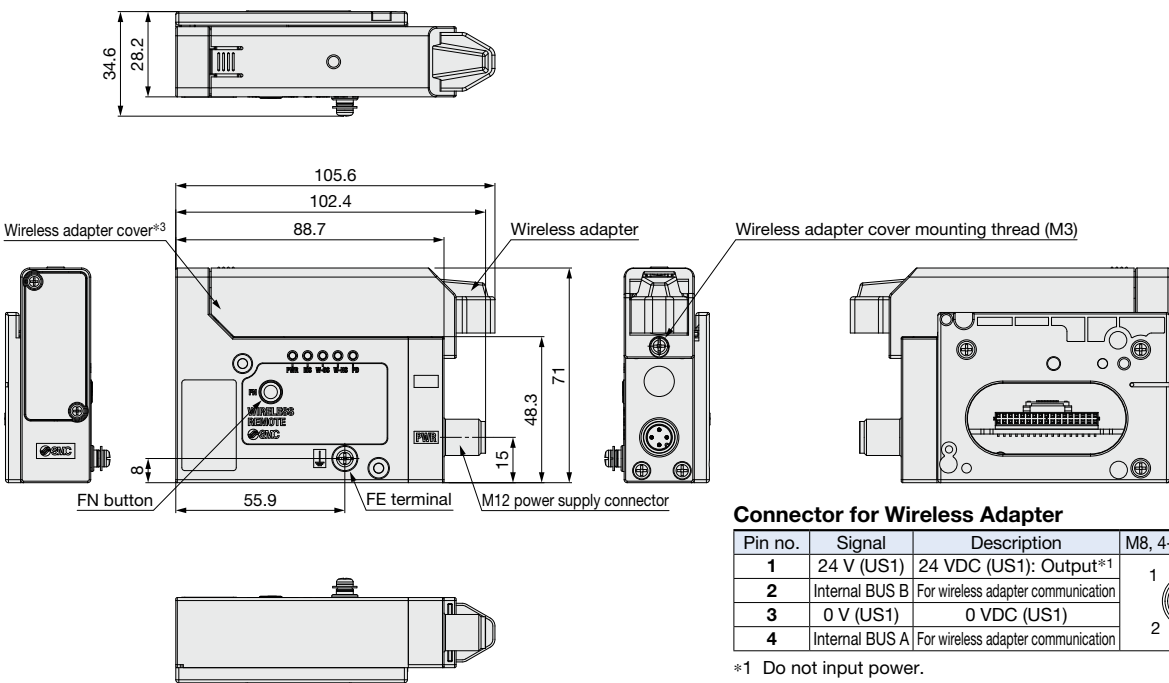


Dimensions/Parts Description

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 $\pm 10\%$.

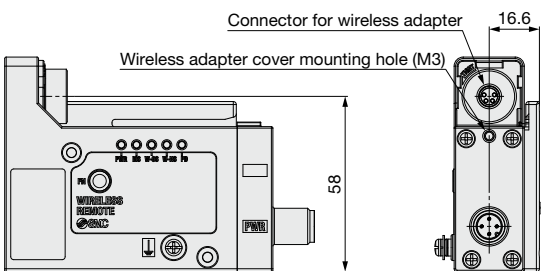
*3 For direct mounting of wireless adapter, a wireless adapter cover is required. (For details $\Rightarrow$ p. 16)

* 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 $\Rightarrow$ p. 14, 16)

When the type with a wireless adapter is selected, the wireless adapter and wireless adapter cover are assembled before shipping.

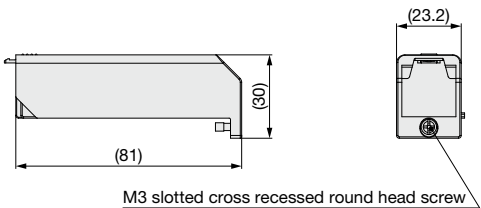
EXW1-RDY□M5C

Wireless adapter, Without cover



Wireless Adapter Cover

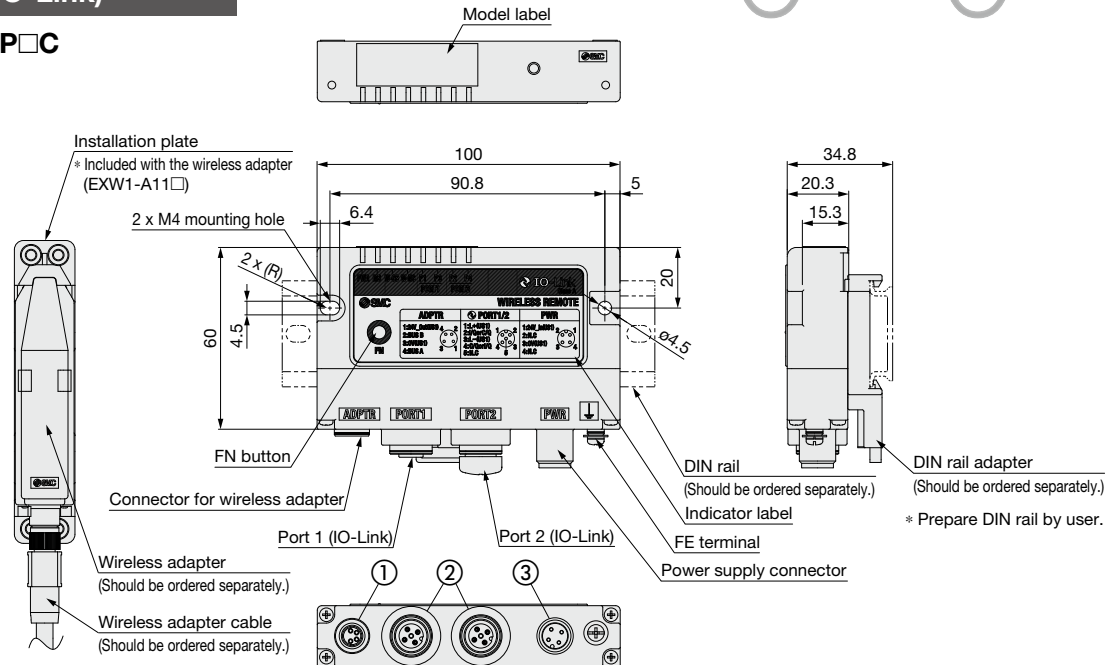
EXW1-AB6



Dimensions/Parts Description

Compact Wireless Remote (IO-Link)

EXW1-RL□□□



① Connector 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	

② Port 1/2: EXW1-RLA8C (ClassA)

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

*1 Do not input power.

*2 The functions of pins can be changed in the settings.

*3 Uses a Y-branch connector to distribute and extract each signal

② Port 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.

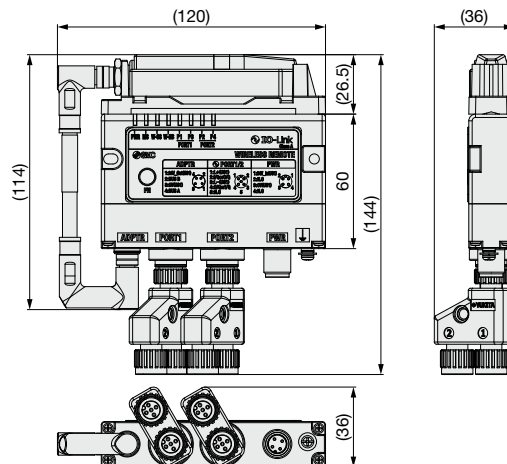
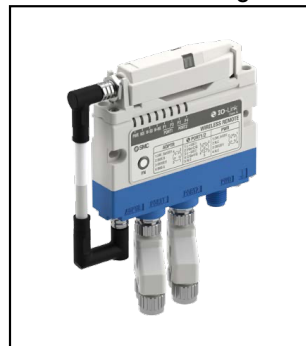
③ Power supply connector

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

Combination image

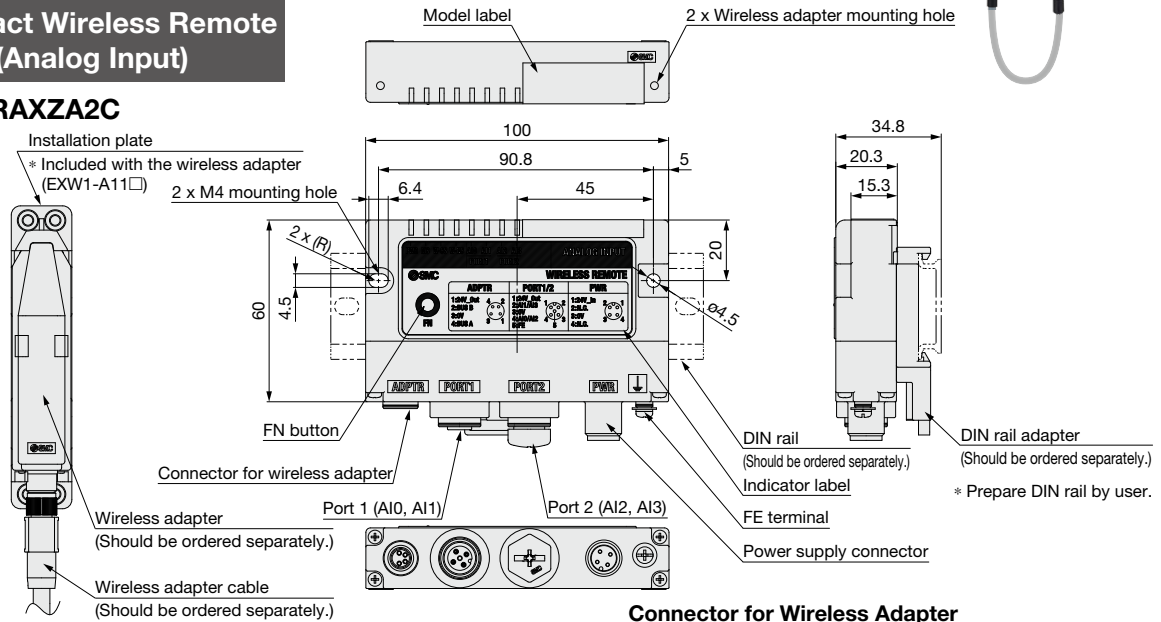


EXW1 Series

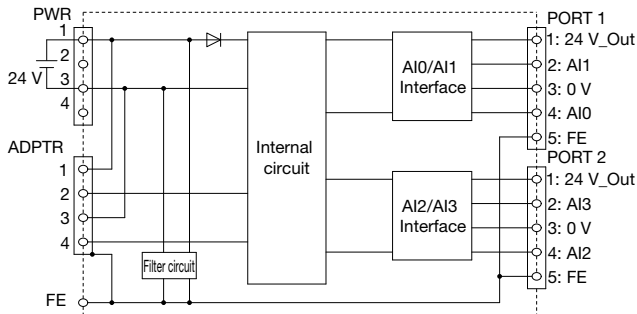
Dimensions/Parts Description

Compact Wireless Remote (Analog 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-coded
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 $\pm 10\%$.

Analog device connector PORT 1/PORT 2

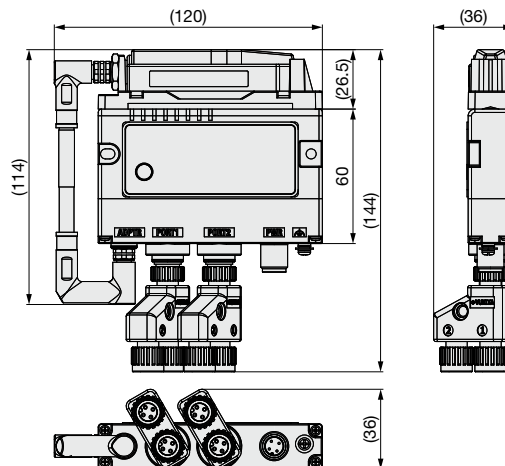
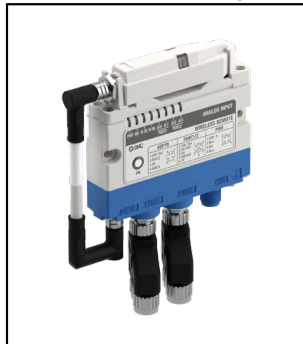
No.	Signal	Description	M12, 5-pin, socket A-coded
1	24 V	24 V: Output*2	
2	AI1/AI3	Analog input*3	
3	0 V	0 V	
4	AI0/AI2	Analog input*3	
5	FE	FE	

*2 Do not input power.

*3 Uses a Y-branch connector to distribute and extract each signal

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

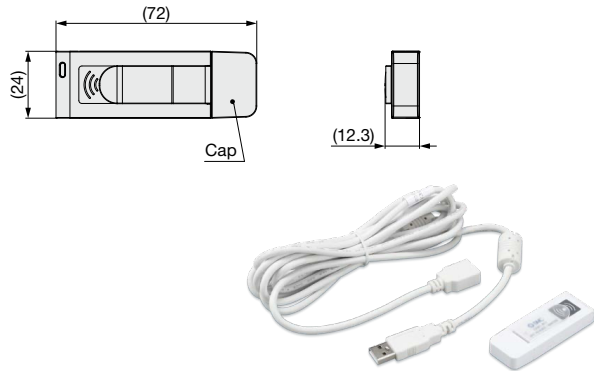
Combination image



Dimensions/Parts Description

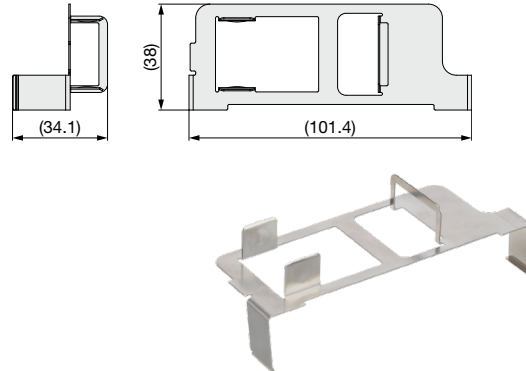
NFC Reader/Writer

EXW1-NT1



Fixing Bracket

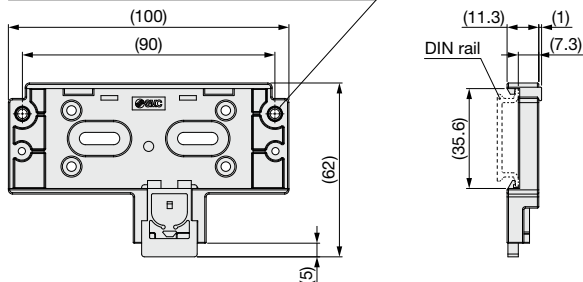
EXW1-AB2 (Option, For EXW1)



DIN Rail Adapter

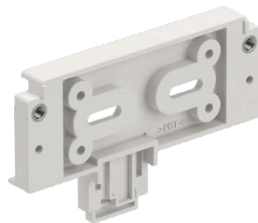
EXW1-AB5

2 x M4 mounting hole (EXW1-B□, EXW1-R□ mounting hole)



- * 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□□□□ Series
EXW1-RL Series
EXW1-RA Series



EXW1 Series

Accessories

Made to Order

EX600-W Series

Accessories

Technical
Data

Country-specific Radio
Law Compliance Table

Specific Product
Precautions

EXW1 Series Accessories (Optional Parts)

