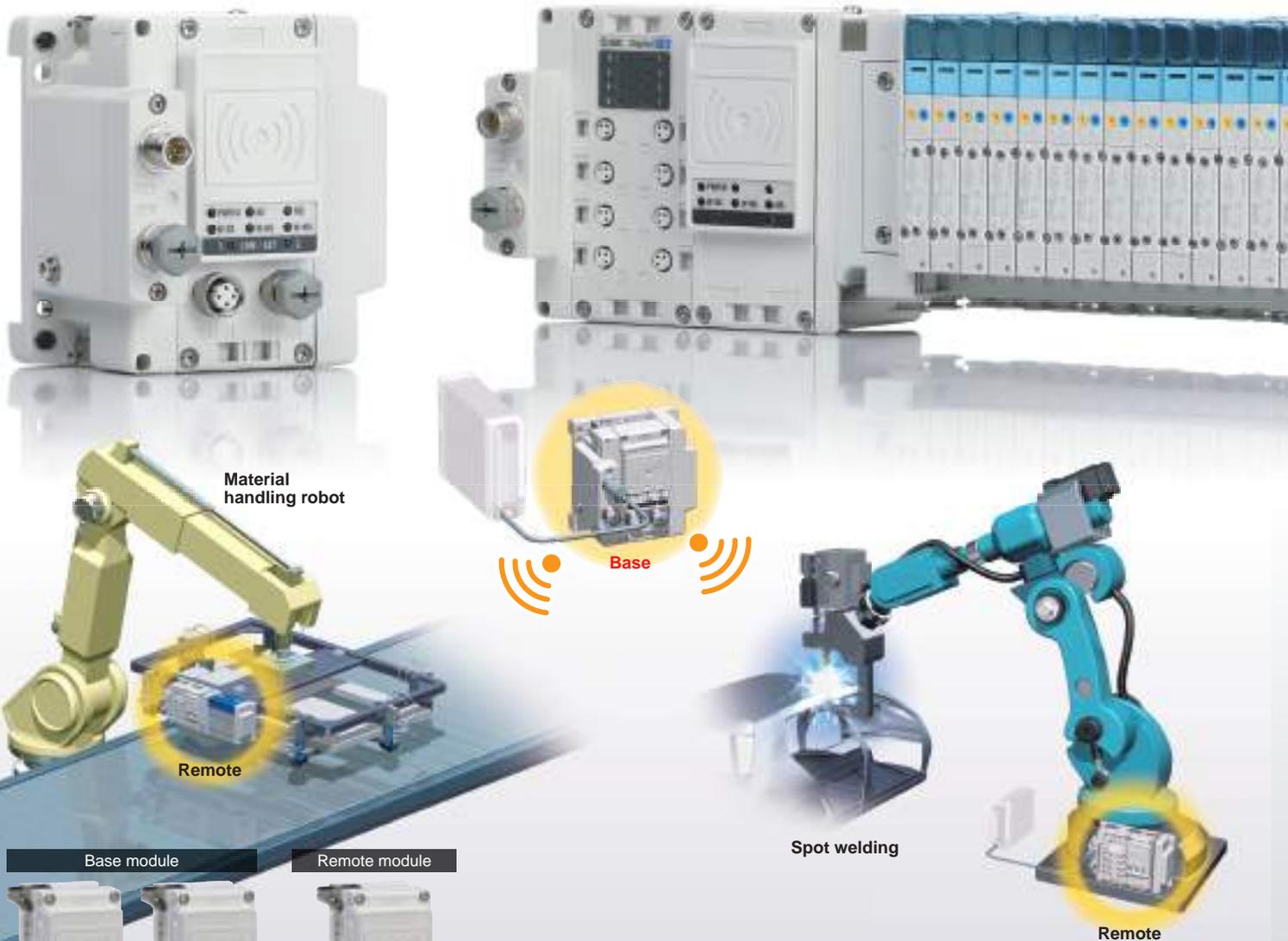


Wireless System



Usable even in welding environments

Noise resistance	High-speed connection	Communication response
Uses the 2.4 GHz ISM frequency band Frequency hopping: Every 5 ms	From power supply ON to start of communication: Min. 250 ms *1	Wireless communication signal Response time: 5 ms
	*1 For remote	
Communication cables not required	Number of I/O points	Compatible protocol
Reduced wiring work, space, and cost Minimised disconnection risk	Max. 1280 inputs/1280 outputs (Max. 128 inputs/128 outputs per module)	EtherNet/IP™ 



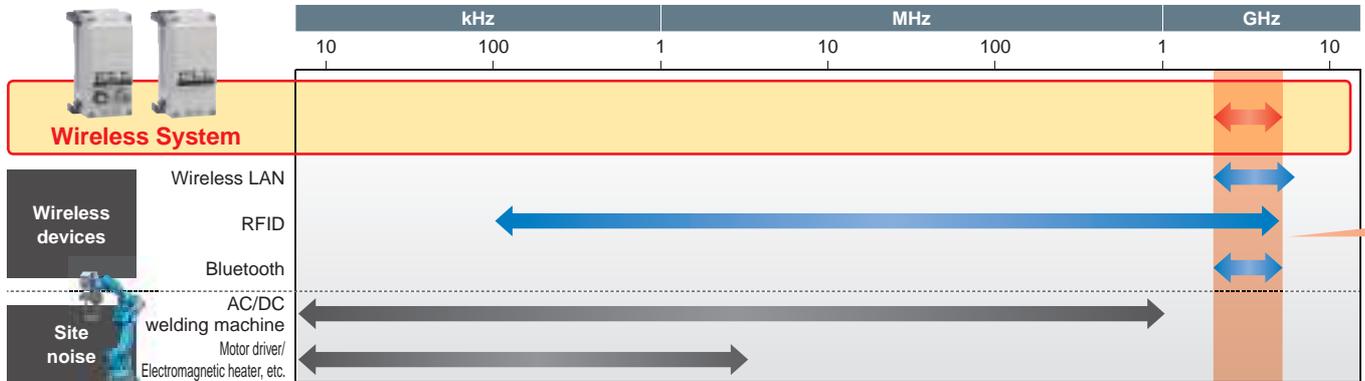
Countries/Regions in which wireless is supported
This product cannot be used in countries where wireless is not supported. Refer to page 23 for details on countries in which the product can be used.

Country/Region	Standards
Japan	 (Japanese radio law)
EU	 (CE marking/RE Directive)
USA	 (FCC)

EX600-W Series

Provide safe and reliable communication

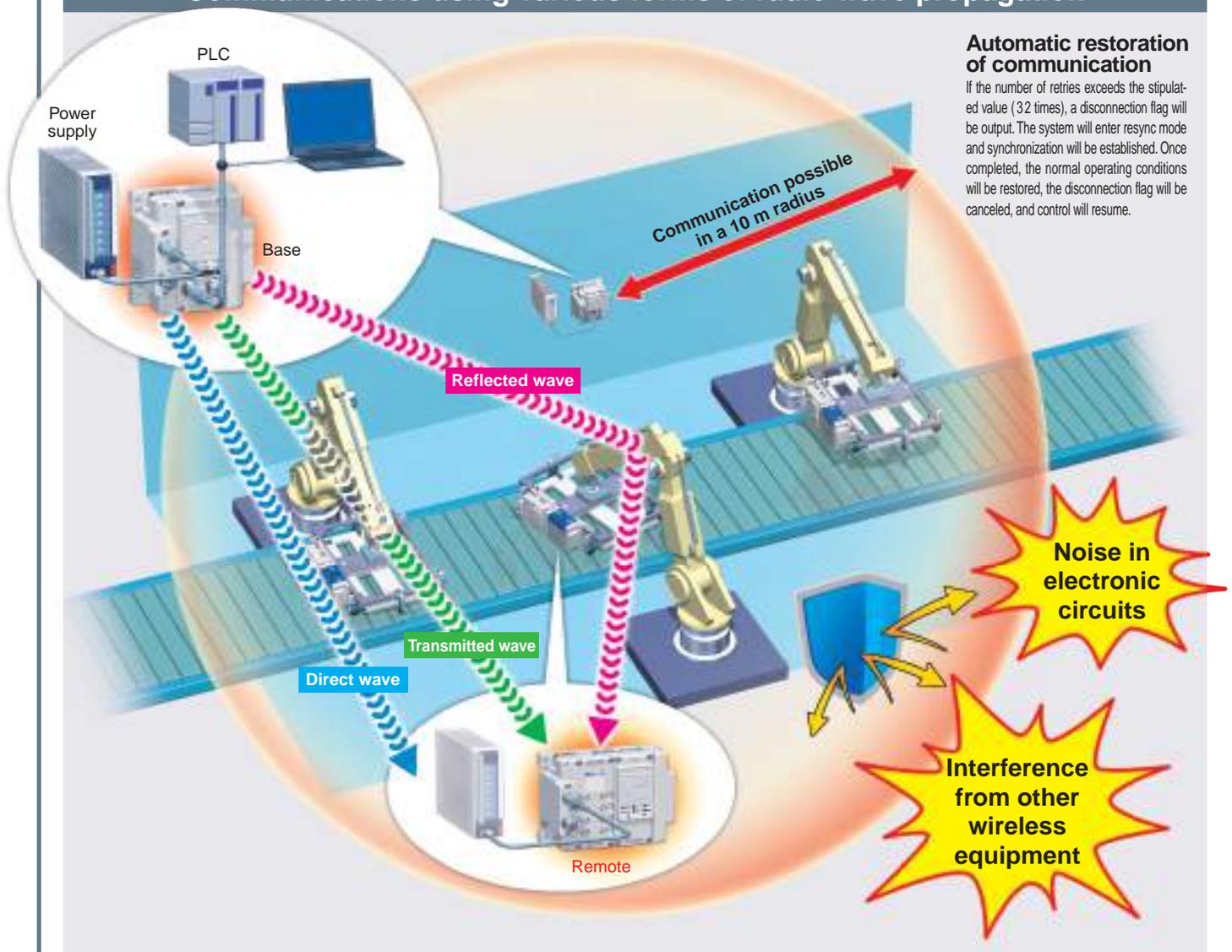
Uses the 2.4 GHz ISM frequency band

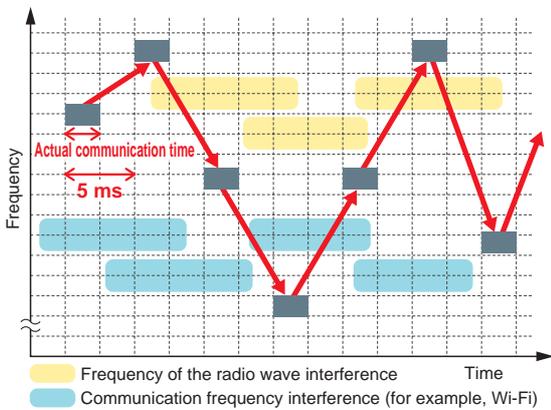


* ISM (Industrial, Scientific and Medical) radio bands: Radio bands reserved for the use of radio frequency energy for industrial, scientific and medical purposes.

Provide stable communication

Communications using various forms of radio wave propagation





Frequency hopping: Every 5 ms

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

Frequency Hopping

The communication technology rapidly changes frequency (hopping), to prevent interference from other wireless equipment. When the frequency of Wi-Fi and other wireless communications compete, or radio wave interference is present, then other frequencies are used for communication. For details, refer to technical data on page 23.

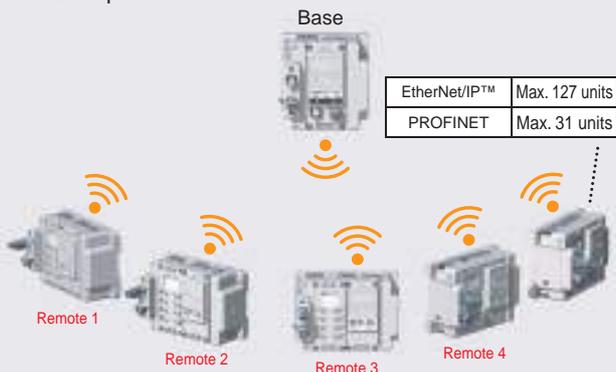
High security using encryption

Unauthorised access from outside is prevented by using data encryption.



Point-to-Multipoint communication

Registration and communication of up to 127 remote module is possible.



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

Wireless communication status can be monitored.

<Monitoring the remote communication status>

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

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

[Diagnostic data]

- * When communication from the remote cannot be received
- * When communication retry has exceeded the upper limit (32 times)

[Unit display]

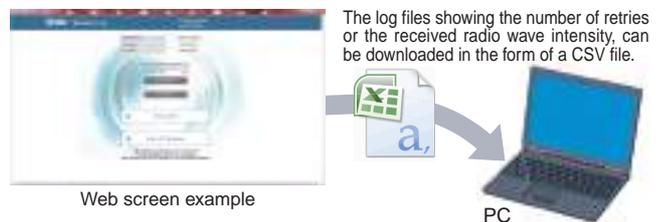
For Base	W-SS (Radio wave receiving intensity (For communication from remote to base))	
EtherNet/IP™ <input type="radio"/> PWR (W) <input type="radio"/> NS <input type="radio"/> MS <input type="radio"/> W-SS <input type="radio"/> W-NS <input type="radio"/> W-MS 1 ● LINK / ACT ● 2	<input checked="" type="radio"/> Green LED is ON.	Received power level of all remotes is 3.
	<input type="radio"/> Green LED flashes. (1 Hz)	There are connected remotes with received power level 2.
	<input type="radio"/> Green LED flashes. (2 Hz)	There are connected remotes with received power level 1.
PROFINET <input type="radio"/> PWR <input type="radio"/> SF <input type="radio"/> BF <input type="radio"/> W-SS <input type="radio"/> W-NS <input type="radio"/> W-MS 1 ● LINK / ACT ● 2	<input type="radio"/> Red LED flashes.	No remotes connected.
	<input type="radio"/> OFF	Remote module is not registered.

For remote	W-SS (Radio wave receiving intensity (For communication from base to remote))	
	<input checked="" type="radio"/> Green LED is ON.	Received power level is 3.
	<input type="radio"/> Green LED flashes. (1 Hz)	Received power level is 2.
	<input type="radio"/> Green LED flashes. (2 Hz)	Received power level is 1.
	<input type="radio"/> Red LED flashes.	Wireless communication is not connected.
	<input type="radio"/> OFF	Base module is not registered.

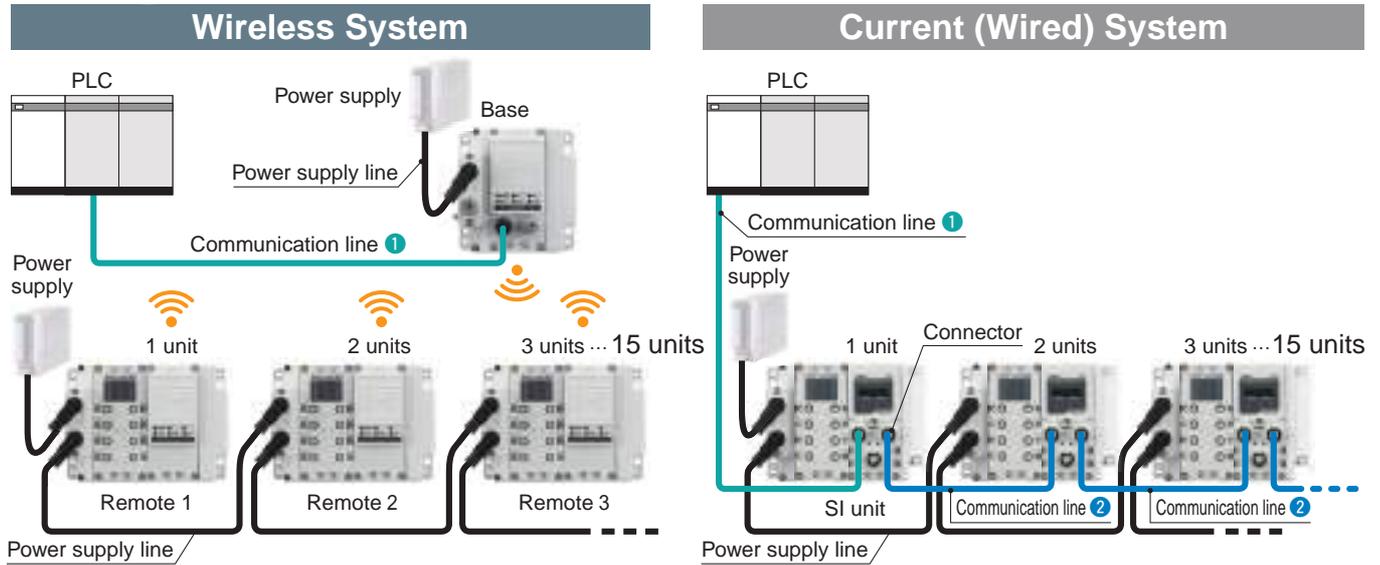
- * A received radio wave intensity level of 1 means the intensity is weak. Add a base so that the wave intensity becomes level 3 or 2. Alternatively remove the obstacle between the base and remote, or reduce the distance between the base and remote.

<Communication status can be downloaded by a PC>

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



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



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 place
Current (Wired)	SI unit: 15 units	1 line (Connector at one end)	14 lines (Connector at both ends)	29 places

Interchangeability maintained

Connection interchangeability between EX600 series SI units is maintained.

Replacement of wireless and wired systems is possible.

* Maximum I/O of base/remote module unit is limited to 128 points.

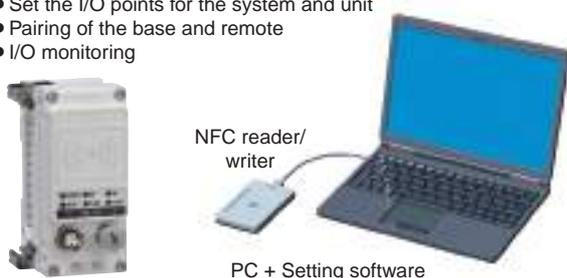


NFC contactless communication

(NFC: Near Field Communication)

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

- Write IP address to the base
- Set the I/O points for the system and unit
- Pairing of the base and remote
- I/O monitoring



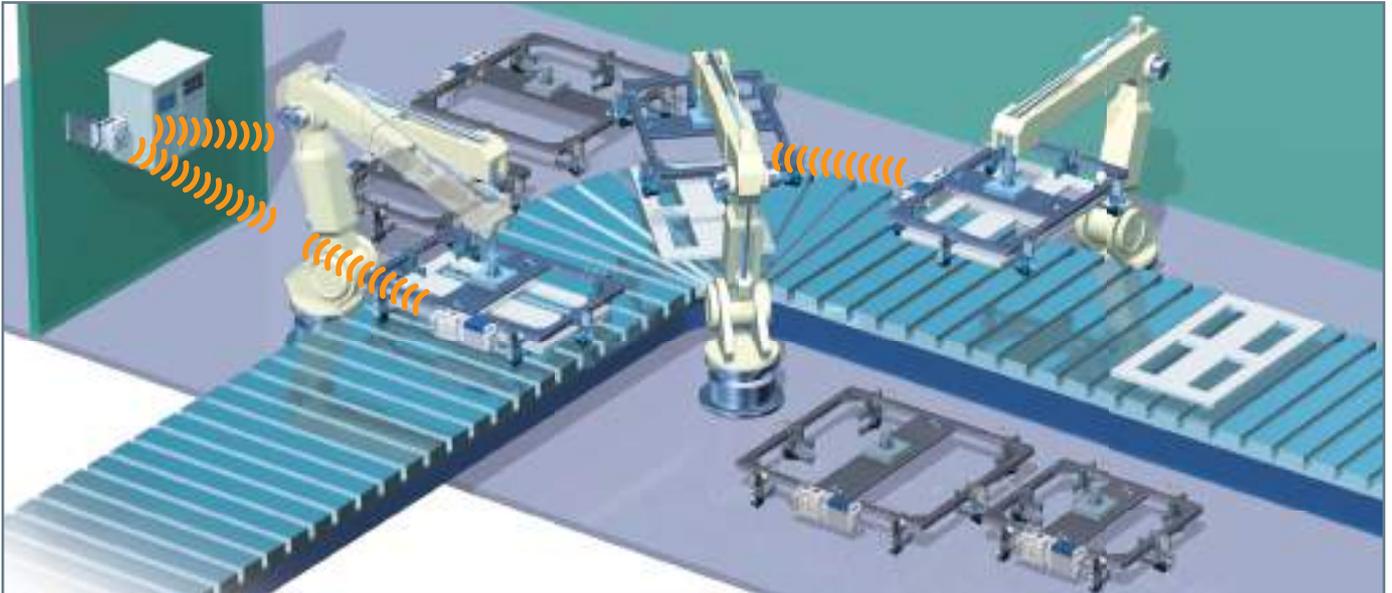
Configuration File

Initial setting application for EX600-WEN/EX600-WPN (I/O configurator for NFC) can be downloaded from SMC website, www.smc.eu

Application Examples

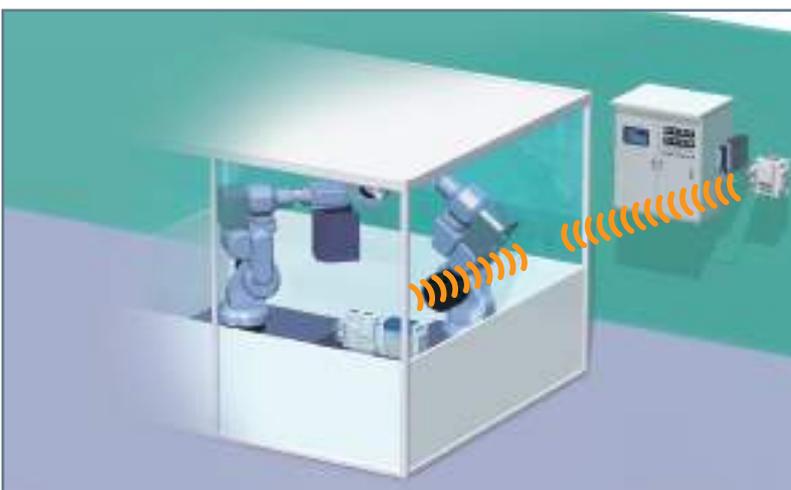
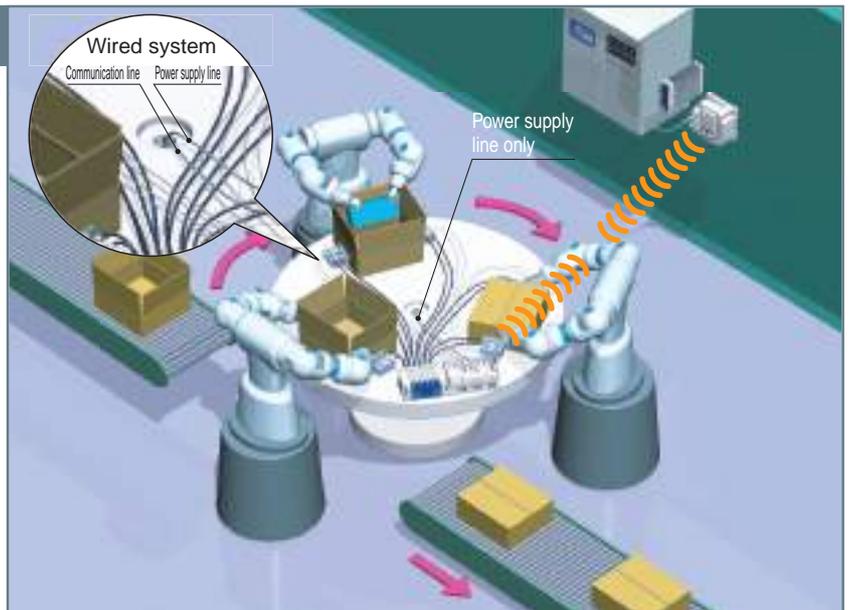
Tool change

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



Rotary table

- Minimised disconnection risk
- Smaller diameter communication cable/tubing



Blocking of radio waves

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

System Examples



PLC

Fieldbus

EtherNet/IP



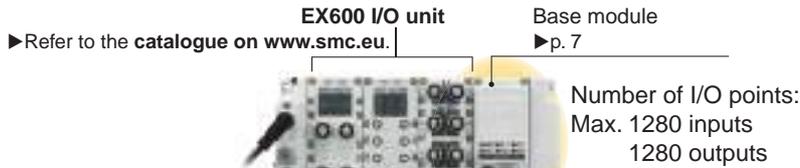
Setting/Monitor tool

Initial setting/monitoring/
pairing are possible.

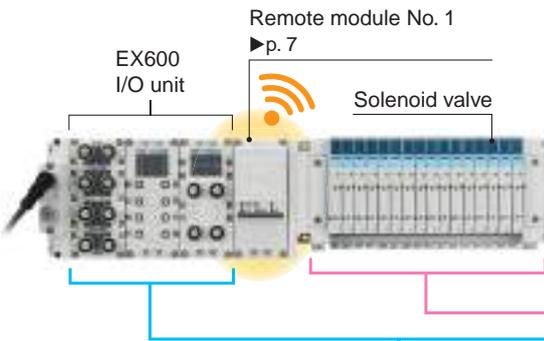


PC

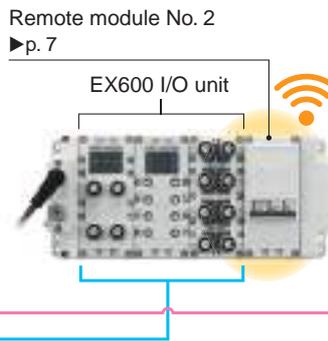
Wireless Network



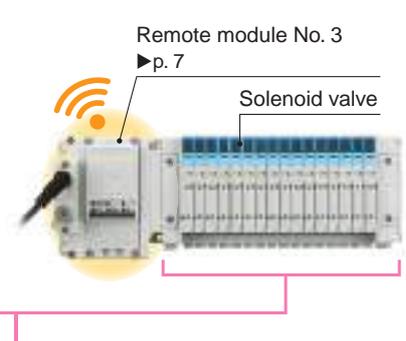
Combination Example 1



Combination Example 2



Combination Example 3



Other products

Pressure switch, flow switch, auto switch, and other switches
(proximate sensor, photoelectric switch, limit switch, etc.)



Various actuators



Applicable Manifold Solenoid Valves

SY Series (IP67)



SV Series (IP67)



S0700 Series (IP40)



VQC Series (IP67)



CONTENTS

Wireless System *EX600-W Series*

EtherNet/IP



Base module

Remote module



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Analogue Output Unit	p. 8
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Important	p. 23
Safety Instructions	Back cover

Wireless System EX600-W Series



How to Order

Wireless Unit

EX600-W EN 1

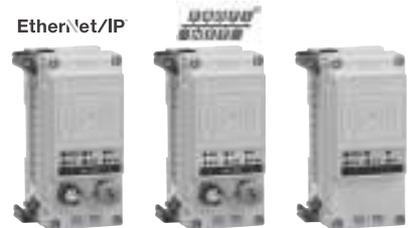
Wireless compatible

Protocol

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

Output type

Symbol	Specifications
1	PNP
2	NPN

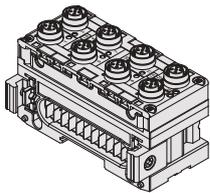


Base module

Remote module

Digital Input Unit

EX600-DX P D



Input type

Symbol	Description
P	PNP
N	NPN

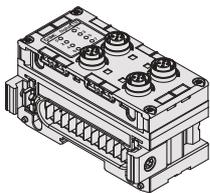
Number of inputs and Connector

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)

* For specifications, refer to the Fieldbus system EX600 series in the **catalogue** on www.smc.eu.

Digital Output Unit

EX600-DY P B



Output type

Symbol	Description
P	PNP
N	NPN

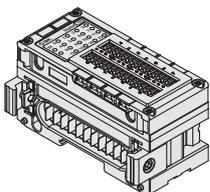
Number of outputs and Connector

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)

* For specifications, refer to the Fieldbus system EX600 series in the **catalogue** on www.smc.eu.

Digital Input/Output Unit

EX600-DM P F



Input/Output type

Symbol	Description
P	PNP
N	NPN

Number of inputs/outputs and Connector

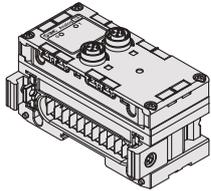
Symbol	Number of inputs	Number of outputs	Connector
E	8 inputs	8 outputs	D-sub connector (25 pins)
F	8 inputs	8 outputs	Spring type terminal block (32 pins)

* For specifications, refer to the Fieldbus system EX600 series in the **catalogue** on www.smc.eu.

How to Order

Analogue Input Unit

EX600-AXA



Analogue input

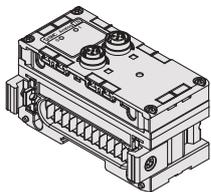
Number of input channels and Connector

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

* For specifications, refer to the Fieldbus system EX600 series in the **catalogue** on www.smc.eu.

Analogue Output Unit

EX600-AYA



Analogue output

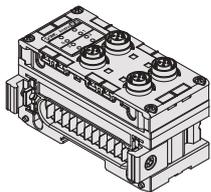
Number of output channels and Connector

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

* For specifications, refer to the Fieldbus system EX600 series in the **catalogue** on www.smc.eu.

Analogue Input/Output Unit

EX600-AMB



Analogue input/output

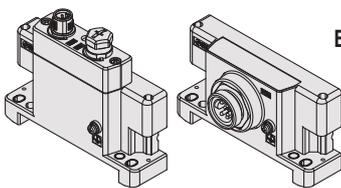
Number of input/output channels and Connector

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

* For specifications, refer to the Fieldbus system EX600 series in the **catalogue** on www.smc.eu.

End Plate (D side)

EX600-ED2-2



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 14.

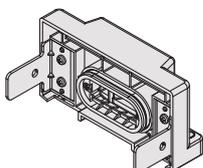
Mounting method

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-EU1-2



End plate

End plate mounting position: U side

Specifications

Symbol	Specifications
1	Waterproof cover

Mounting method

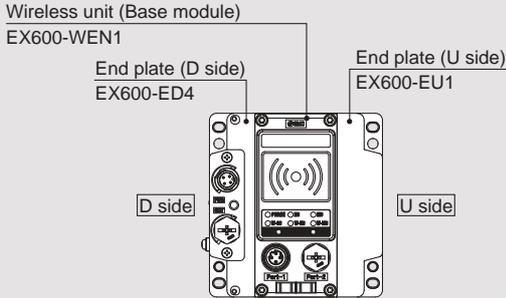
Symbol	Description	Note
—	Without DIN rail mounting bracket	—
2	With DIN rail mounting bracket	For EX600-ED□-2
3	With DIN rail mounting bracket	For EX600-ED□-3

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

EX600-W Series

Ordering Example of the Base Module

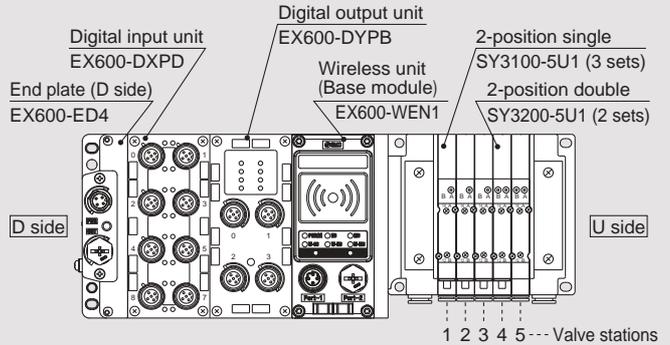
Base module: Without valve manifold and input/output unit



EX600-ED4	1 set
EX600-WEN1	1 set
EX600-EU1	1 set

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

Manifold with base module: With input/output unit



SS5Y3-10S6WE72-05B-C6
(Type 10 5-station manifold base, base EtherNet/IP™ compatible)
Negative common, M12 connector IN/OUT pin arrangement 1, I/O unit: 2 stations

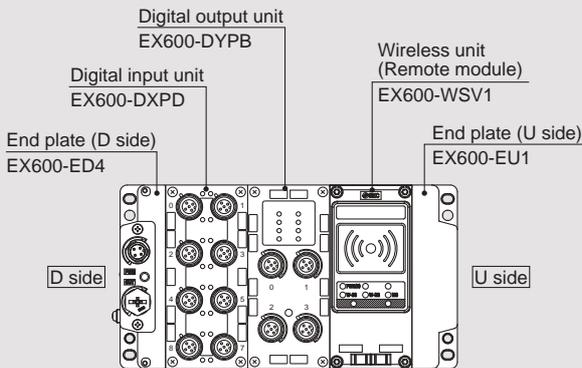
* SY3100-5U1	3 sets (2-position single part no.)
* SY3200-5U1	2 sets (2-position double part no.)
* EX600-DXPD	1 set I/O unit part no. (Stations 1)
* EX600-DYPB	1 set I/O unit part no. (Stations 2)

→ 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.

Ordering Example of the Remote Module

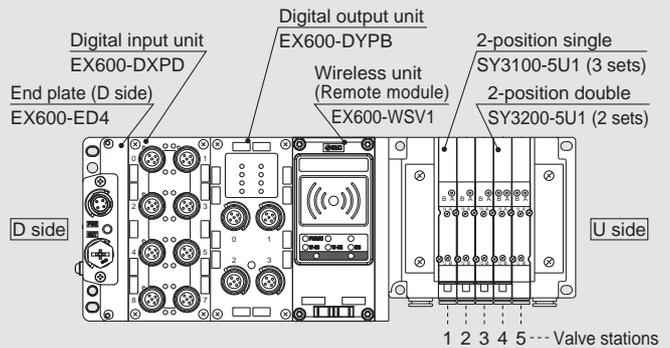
Remote module: Without valve manifold and with input/output unit



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.

Specifications

Base module: EX600-WEN□

Item		Specifications	
EtherNet/IP™ communication	Communication protocol	EtherNet/IP™ (Conformance test version: Composit 12)	
	Transmission medium (cable)	Standard Ethernet cable (CAT5 or higher, 100BASE-TX)	
	Communication speed	10 Mbps/100 Mbps	
	Communication method	Full duplex/Half duplex	
	Configuration file	EDS file*1	
	IP address setting	Manual/BOOTP, DHCP	
	Device information	Vendor ID: 7 (SMC Corp.) Device type: 12 (Communication Adaptor) Product code: 186	
	Topology	Star, Bus, Ring (DLR), Line, Tree	
	QuickConnect™ function	Applicable	
	DLR function	Applicable	
Web server function	Applicable		
Wireless communication	Protocol	SMC original protocol (SMC encryption)	
	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)	
Electrical	For control/input (US1)	Power supply voltage	24 VDC ±10 %
		Current consumption	150 mA or less
	For output (US2)	Power supply voltage	24 VDC ±10 %
		Max. supply current	4 A
Input/Output	Number of inputs	System input size	Max. 1280 points together with the registered remote modules
		Input size	Max. 128 points (increase or decrease by 16 points)
	Number of outputs	System output size	Max. 1280 points together with the registered remote modules
		Output size	Max. 128 points (increase or decrease by 16 points)
	Analogue input/output	AD refresh time	10 ms or less (the input connected to the base module) 0.1/0.2/0.5/1/2/5/10/30/60 s (the input connected to the remote module)*3
		DA refresh time	10 ms or less (the output connected to the base module) 0.1/0.2/0.5/1/2/5/10/30/60 s (the output connected to the remote module)*3
	Valve output	Output type	EX600-WEN1: Source/PNP (-COM) EX600-WEN2: 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)
	Number of remote modules connected		Max. 127 units (0/15/31/63/127 units)
Number of connected EX600 I/O units		Max. 9 EX600 series I/O units (I/O = 128. I/O above 128 cannot be recognised.)	
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 EN61131-2 5 ≤ f < 8.4 Hz 3.5 mm 8.4 ≤ f < 150 Hz 9.8 m/s ² (Excludes valve manifold)	
	Impact resistance	Conforms to EN61131-2 147 m/s ² , 11 ms (Excludes valve manifold)	
	Standards	CE marking (EMC directive/RoHS directive)	
	Weight	300 g	
NFC communication*4	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 The configuration file can be downloaded from the SMC website: <https://www.smc.eu>

*2 Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, U.K., Turkey

*3 Varies depending on the wireless communication status and the surrounding environment

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

■ Trademark

EtherNet/IP™ is a trademark of ODVA.

EX600-W Series

Specifications

Base module: EX600-WPN□

Item		Specifications	
PROFINET communication	Communication protocol	PROFINET IO	
	Conformance class	Class C (Only for IRT switch function)	
	Transmission medium (cable)	Standard Ethernet cable (CAT5 or higher, 100BASE-TX)	
	Transmission speed	100 Mbps	
	Configuration file	GSDML file*1	
	FSU (Fast Start Up)	Applicable	
	MRP (Media Redundancy Protocol)	Applicable	
	Web server function	Applicable	
Wireless communication	Protocol	SMC original protocol (SMC encryption)	
	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	Japanese radio law (Japan), RE (EU*2), FCC (USA), ANATEL (Brazil), ETA (India), NOM (Mexico), IC (Canada), SRRC (China), NBTC (Thailand), ACMA (Australia), ACMA (New Zealand), IMDA (Singapore), NCC (Taiwan), KC (South Korea)	
Electrical	For control/input (US1)	Power supply voltage	24 VDC \pm 10 %
		Current consumption	150 mA or less
	For output (US2)	Power supply voltage	24 VDC \pm 10 %
		Max. supply current	4 A
Input/Output	Number of inputs	System input size	Max. 1280 points together with the registered remote modules
		Input size	Max. 128 points (increase or decrease by 16 points)
	Number of outputs	System output size	Max. 1280 points together with the registered remote modules
		Output size	Max. 128 points (increase or decrease by 16 points)
	Analogue input/output	AD refresh time	10 ms or less (the input connected to the base module) 0.1/0.2/0.5/1/2/5/10/30/60 s (the input connected to the remote module)*3
		DA refresh time	10 ms or less (the output connected to the base module) 0.1/0.2/0.5/1/2/5/10/30/60 s (the output connected to the remote module)*3
	Valve output	Output type	EX600-WPN1: Source/PNP (-COM) EX600-WPN2: 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)
	Number of remote modules connected		Max. 31 units (0/15/31 units)
	Number of connected EX600 I/O units		Max. 9 EX600 series I/O units (I/O = 128. I/O above 128 cannot be recognised.)
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 M Ω or more (500 VDC between external terminals and metallic parts)
	Vibration resistance		Conforms to EN61131-2 5 \leq f < 8.4 Hz 3.5 mm 8.4 \leq f < 150 Hz 9.8 m/s ² (Excludes valve manifold)
	Impact resistance		Conforms to EN61131-2 147 m/s ² , 11 ms (Excludes valve manifold)
	Standards		CE marking (EMC directive/RoHS directive)
	Weight		300 g
	NFC communication*4	Communication standard	
Frequency		13.56 MHz	
Communication speed		20 to 100 kHz (I2C)	
Communication distance		Up to 1 cm	

*1 The configuration file can be downloaded from the SMC website: <http://www.smc.eu>

*2 Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, U.K., Turkey

*3 Varies depending on the wireless communication status and the surrounding environment

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

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 recognised.)
	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)
	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		Japanese radio law (Japan), RE (EU*2), FCC (USA), ANATEL (Brazil), ETA (India), NOM (Mexico), IC (Canada), SRRC (China), NBTC (Thailand), ACMA (Australia), ACMA (New Zealand), IMDA (Singapore), NCC (Taiwan), KC (South Korea)	
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 EN61131-2 5 ≤ f < 8.4 Hz 3.5 mm 8.4 ≤ f < 150 Hz 9.8 m/s ² (Excludes valve manifold)
	Impact resistance		Conforms to EN61131-2 147 m/s ² , 11 ms (Excludes valve manifold)
	Standards		CE marking (EMC directive/RoHS directive)
	Weight		280 g
NFC communication*3	Communication standard		ISO/IEC 14443B (Type-B)
	Frequency		13.56 MHz
	Communication speed		20 to 100 kHz (12C)
	Communication distance		Up to 1 cm

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

*2 Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, U.K., Turkey

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

End Plate (D side): EX600-ED4/5-□

Item		Specifications	
Electrical	Connector type	PWR IN	M12 plug, 4-pin
		PWR OUT	M12 socket, 5-pin
	Rated voltage	Power supply for output	24 VDC +10 %/-5 %
		Power supply for control/input	24 VDC ±10 %
	Rated current	Power supply for output	Max. 4 A
		Power supply for control/input	Max. 4 A
General	Enclosure		Conforms to IP67 (with manifold assembled)
	Withstand voltage		500 VAC for 1 minute (between FE and external terminals)
	Insulation resistance		10 MΩ or more (500 VDC between FE and external terminals)
	Ambient temperature	Operating	-10 to +50 °C
		Stored/Transported	-20 to +60 °C
Ambient humidity		35 % to 85 % RH (No condensation)	
Standards		CE marking (EMC directive/RoHS directive)	

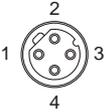
* For the EX600-ED2/3-□, refer to the Fieldbus system EX600 series in the **catalogue on www.smc.eu**.

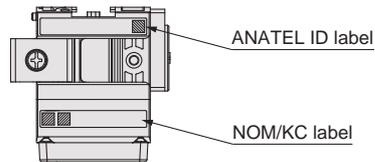
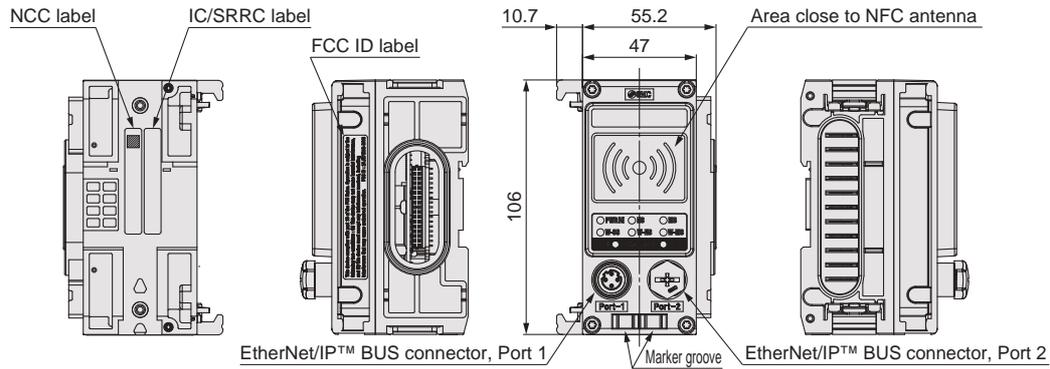
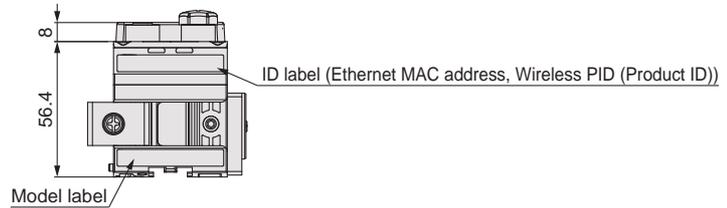
EX600-W Series

Dimensions

Base module: EX600-WEN□

Connector for EtherNet/IP™ Port 1/Port 2

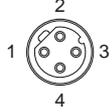
M12, 4-pin, D-coded, socket	Pin no.	Description
	1	Tx+
	2	Rx+
	3	Tx-
	4	Rx-

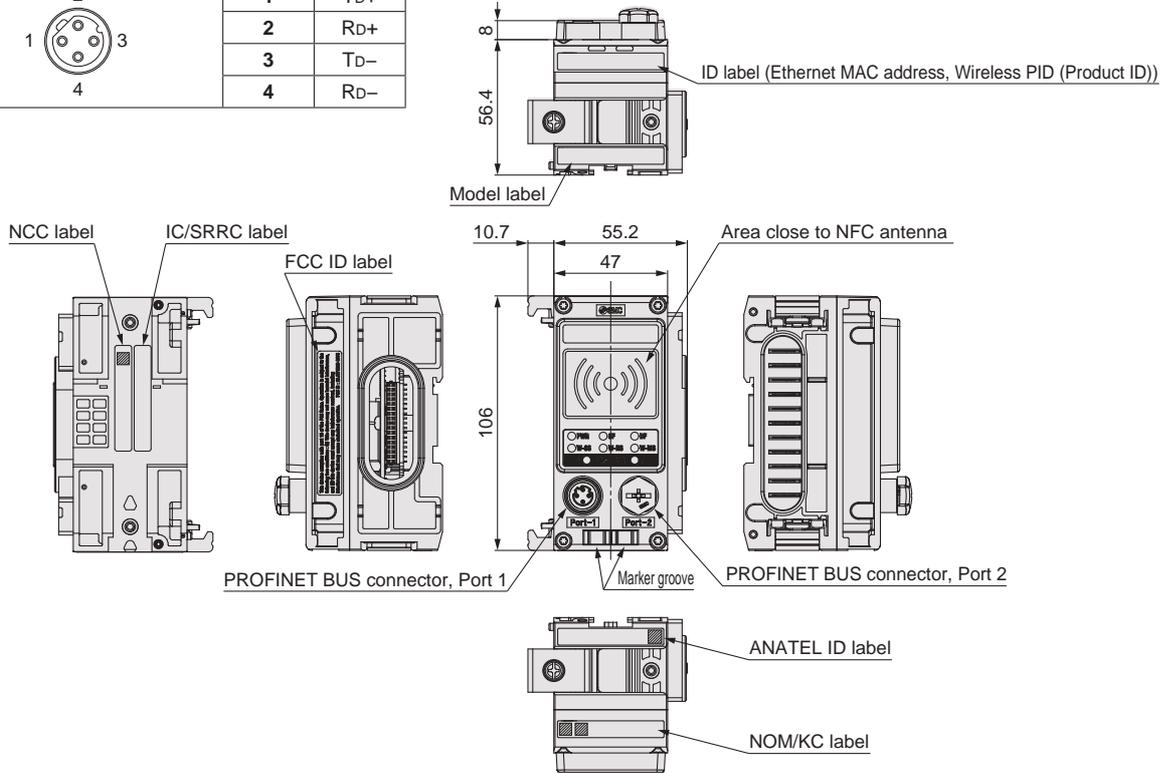


Dimensions

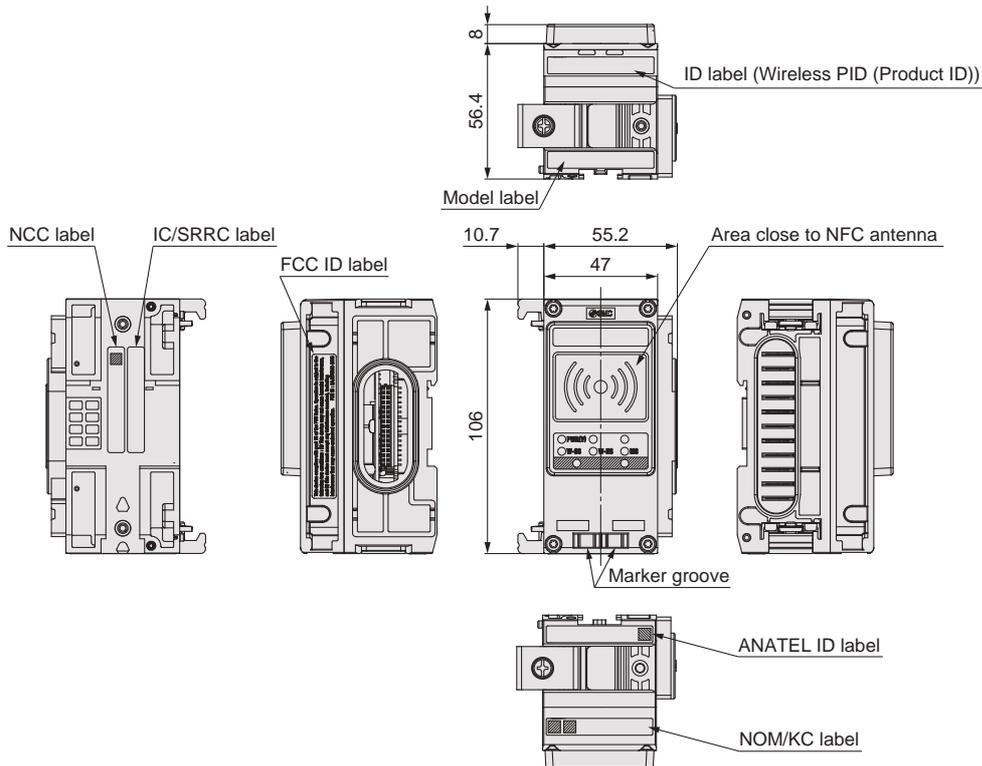
Base module: EX600-WPN□

Connector for PROFINET Port 1/Port 2

M12, 4-pin, D-coded, socket	Pin no.	Description
	1	T _{D+}
	2	R _{D+}
	3	T _{D-}
	4	R _{D-}



Remote module: EX600-WSV□

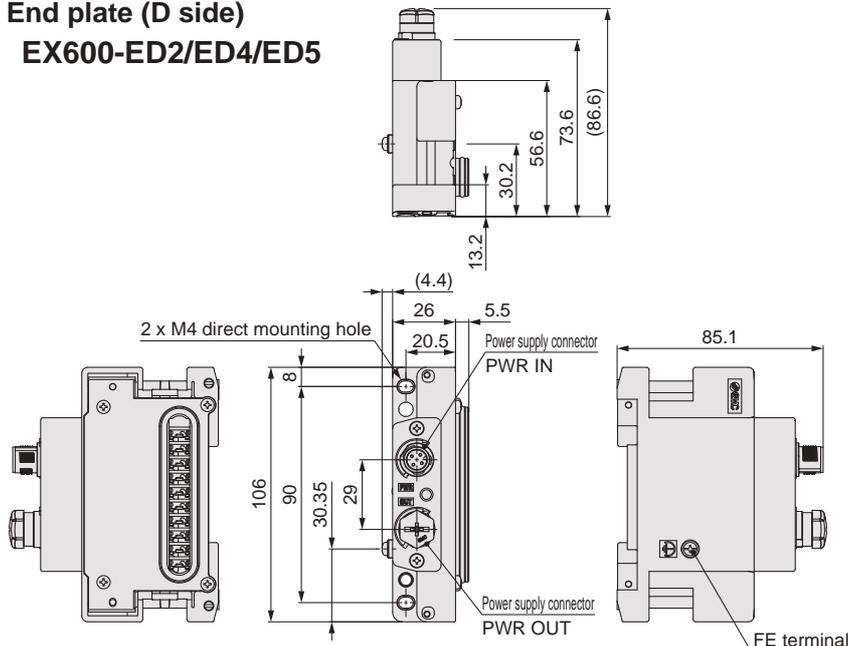


EX600-W Series

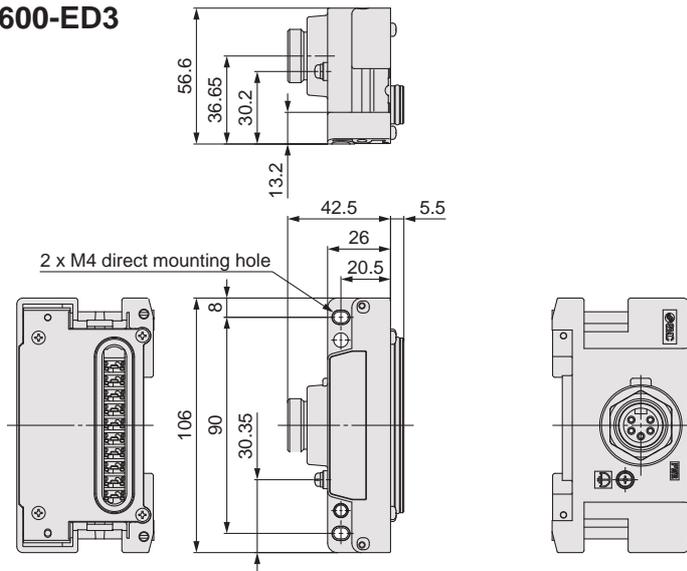
Dimensions

End plate (D side)

EX600-ED2/ED4/ED5

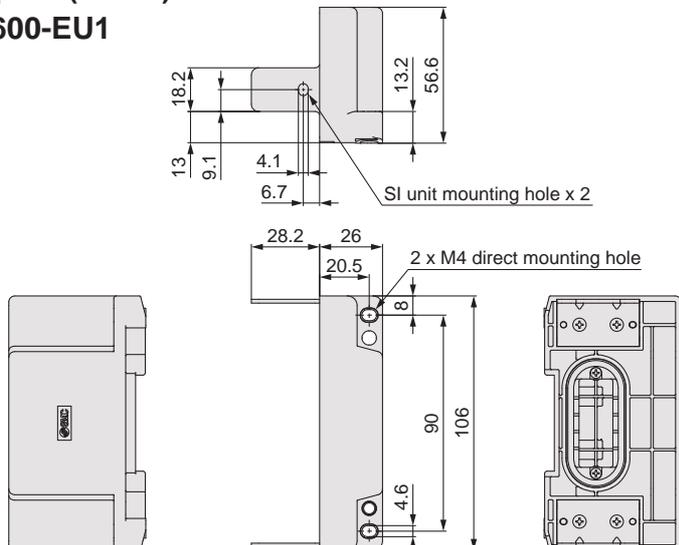


EX600-ED3



End plate (U side)

EX600-EU1



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

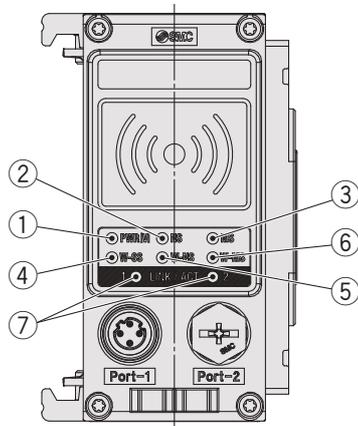
Configuration	EX600-ED4 (Pin arrangement 1)		EX600-ED5 (Pin arrangement 2)	
	Pin no.	Description	Pin no.	Description
	1	24 V (for control/input)	1	24 V (for output)
	2	24 V (for output)	2	0 V (for output)
	3	0 V (for control/input)	3	24 V (for control/input)
	4	0 V (for output)	4	0 V (for control/input)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

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)

LED Display

Base module EtherNet/IP™ communication specifications

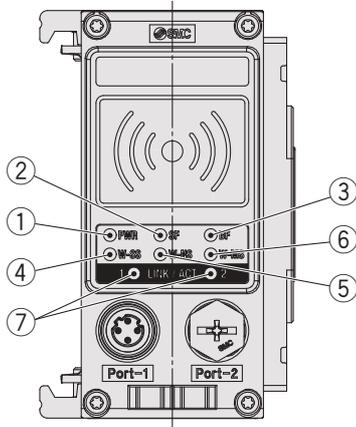


No.	LED name	Function	Colour of LED	Operation
1	PWR (V)	Power supply voltage for output (US2)	Green LED is ON.	Power supply voltage for output (US2) is normal.
			Red LED flashes.	Power supply voltage for output (US2) is abnormal. (Indication only. The product can be operated. Applicable when the output power supply voltage monitoring setting is enabled)
			OFF	Power supply for control and input (US1) is not supplied.
2	NS	EtherNet/IP™ connection status	Green LED is ON.	EtherNet/IP™ communication is established.
			Green LED flashes.	EtherNet/IP™ communication is not established.
			Red LED flashes.	EtherNet/IP™ communication time out
			Red LED is ON.	Duplicated IP addresses are detected.
			OFF	IP address not set
3	MS	Base module system status	Green LED is ON.	Base module is normal
			Green LED flashes.	EtherNet/IP™ communication is not connected.
			Red LED flashes.	Restorable error is detected. (LED flashes when one diagnostic information item or more is detected.) <ul style="list-style-type: none"> · Abnormal power supply voltage level for control and input (US1) (Applicable when the control and input power supply voltage monitoring setting is enabled) · Excessive I/O setting inputs/outputs · Analogue I/O upper set limit exceeded · Analogue input range upper and lower limit exceeded · Abnormal number of remote connections · Error in communication between units · EX600 I/O unit detects diagnostic information · Valve diagnostic information detected
			Red LED is ON.	Non-restorable error is detected. (e.g. Hardware failure)
			OFF	Power supply for control and input (US1) is not supplied.
4	W-SS	Radio wave receiving intensity (For communication from remote to base)	Green LED is ON.	Received power level of all remote is 3
			Green LED flashes. (1 Hz)	There are connected remote with received power level 2
			Green LED flashes. (2 Hz)	There are connected remote with received power level 1
			Red LED flashes.	No remotes connected
			OFF	Remote module is not registered.
5	W-NS	Wireless communication connection status	Green LED is ON.	All remote modules are connected correctly.
			Green LED flashes.	There are unconnected remote modules.
			Red LED flashes.	All remote modules are unconnected.
			Red LED is ON.	All remote modules are unconnected. (Non-restorable error in wireless communication)
			Red/Green	Wireless communication connection is under construction. (Pairing)
			Orange LED is ON.	Forced output mode
OFF	Remote module is not registered			
6	W-MS	Remote module connection system status	Green LED is ON.	Remote module is normal
			Red LED flashes.	Restorable error is detected. (LED flashes when one diagnostic information item or more is detected.) <ul style="list-style-type: none"> · Abnormal power supply voltage level for control and input (US1) · Abnormal power supply voltage level for output (US2) · Excessive I/O setting inputs/outputs · Analogue I/O upper set limit exceeded · Analogue input range upper and lower limit exceeded · Error in communication between units · EX600 I/O unit detects diagnostic information · Valve diagnostic information detected
			Red LED is ON.	Non-restorable error is detected. (e.g. Hardware failure)
			OFF	No remote modules connected
7	LINK/ACT1 LINK/ACT2	Communication status of EtherNet/IP™ ports 1 and 2 100 Mbps: Green 10 Mbps: Orange	Green LED is ON.	Link, No Activity (100 Mbps)
			Green LED flashes.	Link, Activity (100 Mbps)
			Orange LED is ON.	Link, No Activity (10 Mbps)
			Orange LED flashes.	Link, Activity (10 Mbps)
			Red LED is ON.	IP address has been duplicated.
			OFF	EtherNet/IP™ is not connected.

EX600-W Series

LED Display

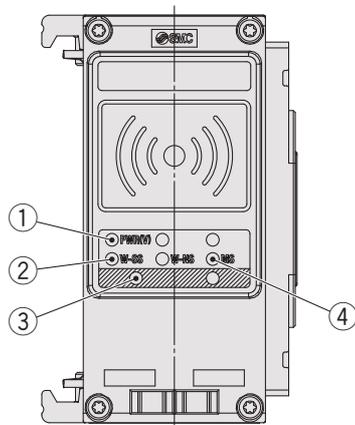
Base module PROFINET communication specifications



No.	LED name	Function	Colour of LED	Operation
1	PWR	Power supply voltage (US1/US2)	Green LED is ON.	Power supply voltage for control and input (US1) is normal, and power supply voltage for output (US2) is normal.
			Green LED flashes.	Power supply voltage for control and input (US1) is normal, and power supply voltage for output (US2) is abnormal. (Applicable when the output power supply voltage monitoring setting is enabled)
			Red LED flashes.	Abnormal power supply voltage level for control and input (US1) (Applicable when the control and input power supply voltage monitoring setting is enabled)
			OFF	Power supply for control and input (US1) is not supplied.
2	SF	Base module system status	OFF	Normal operation
			Green LED flashes.	Node flashing test command has been received.
			Red LED flashes.	Restorable error is detected. (LED flashes when one diagnostic information item or more is detected.) <ul style="list-style-type: none"> Abnormal power supply voltage level for control and input (US1) (Applicable when the control and input power supply voltage monitoring setting is enabled) Abnormal power supply voltage level for output (US2) (Applicable when the output power supply voltage monitoring setting is enabled) Excessive I/O setting inputs/outputs Analogue I/O upper set limit exceeded Analogue input range upper and lower limit exceeded Abnormal number of remote connections Error in communication between units EX600 I/O unit detects diagnostic information Valve diagnostic information detected
			Red LED is ON.	Non-restorable error is detected. (e.g. Hardware failure)
3	BF	PROFINET connection status	OFF	PROFINET communication is established.
			Red LED flashes.	The PROFINET controller setting and the EX600 configuration data are mismatched.
			Red LED is ON.	PROFINET communication is not established. <ul style="list-style-type: none"> The power supply of the PROFINET controller is OFF. There is a defective connection in the communication cable between the PROFINET controller and the base module. The PROFINET controller or the base module unit has broken down. The PROFINET controller setting and the device name of the base module are mismatched.
4	W-SS	Radio wave receiving intensity (For communication from remote to base)	Green LED is ON.	Received power level of all remotes is 3
			Green LED flashes. (1 Hz)	There are connected remotes with received power level 2
			Green LED flashes. (2 Hz)	There are connected remotes with received power level 1
			Red LED flashes.	No remotes connected
			OFF	Remote module is not registered
5	W-NS	Wireless communication connection status	Green LED is ON.	All remote modules are connected correctly
			Green LED flashes.	There are unconnected remote modules
			Red LED flashes.	All remote modules are unconnected
			Red LED is ON.	All remote modules are unconnected (Non-restorable error in wireless communication)
			Red/Green	Wireless communication connection is under construction. (Pairing)
			Orange LED is ON.	Forced output mode
6	W-MS	Remote module connection system status	OFF	Remote module is not registered
			Green LED is ON.	Remote module is normal
			Red LED flashes.	Restorable error is detected. (LED flashes when one diagnostic information item or more is detected.) <ul style="list-style-type: none"> Abnormal power supply voltage level for control and input (US1) Abnormal power supply voltage level for output (US2) Excessive I/O setting inputs/outputs Analogue I/O upper set limit exceeded Analogue input range upper and lower limit exceeded Error in communication between units EX600 I/O unit detects diagnostic information Valve diagnostic information detected
			Red LED is ON.	Non-restorable error is detected. (e.g. Hardware failure)
			OFF	No remote modules connected.
7	LINK/ACT1 LINK/ACT2	Communication status of PROFINET ports 1 and 2	Green LED is ON.	Link, No Activity
			Green LED flashes.	Link, Activity
			OFF	No Link, No Activity

LED Display

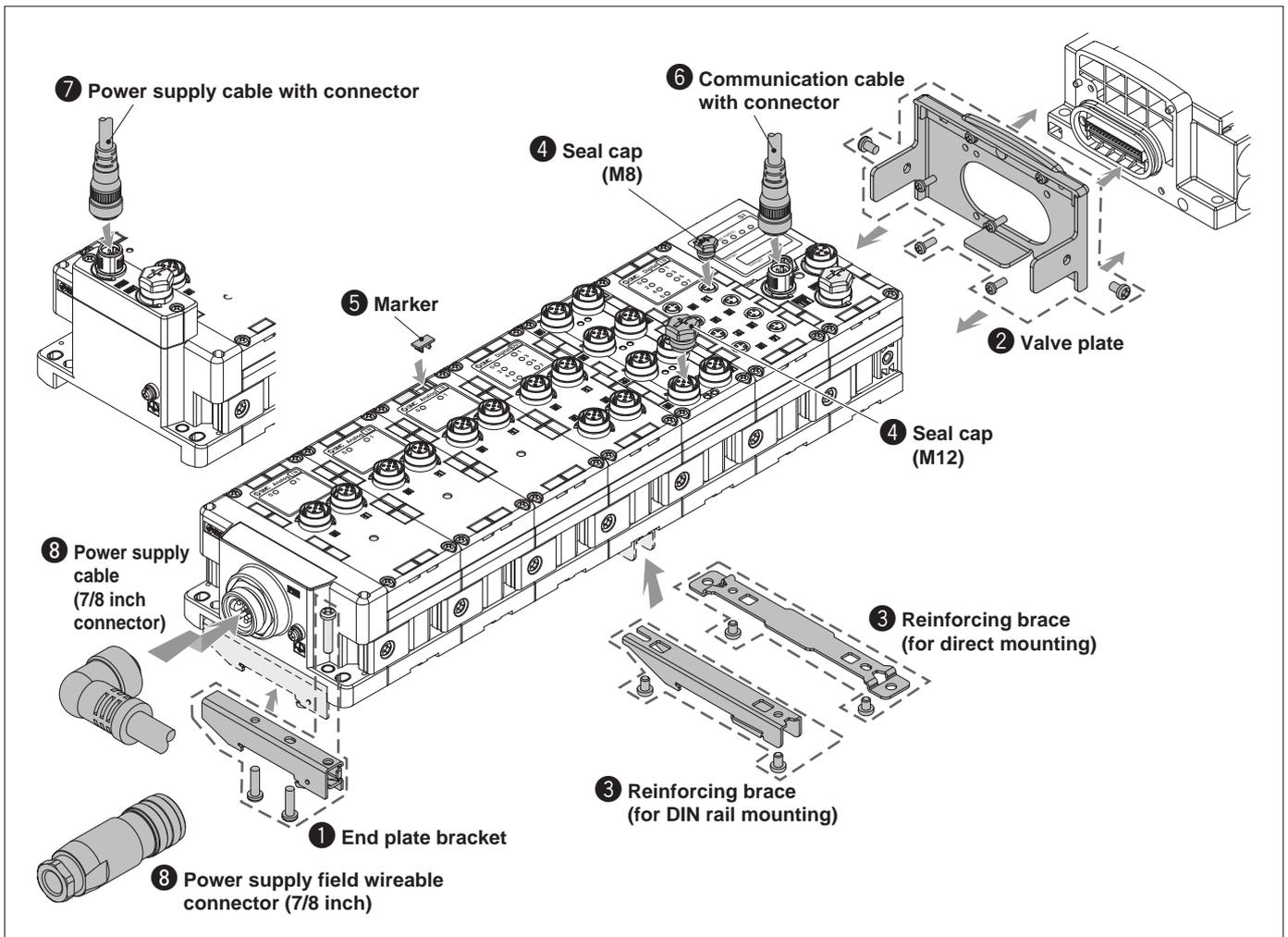
Remote module



No.	LED name	Function	Colour of LED	Operation
1	PWR (V)	Power supply voltage for output (US2)	Green LED is ON.	Power supply voltage for output (US2) is normal.
			Red LED flashes.	Power supply voltage for output (US2) is abnormal. (Indication only. The product can be operated. Applicable when the output power supply voltage monitoring setting is enabled)
			OFF	Power supply for control and input (US1) is not supplied.
2	W-SS	Radio wave receiving intensity (For communication from base to remote)	Green LED is ON.	Received power level is 3.
			Green LED flashes, (1 Hz)	Received power level is 2.
			Green LED flashes, (2 Hz)	Received power level is 1.
			Red LED flashes.	Wireless communication is not connected.
			OFF	Base module is not registered.
3	W-NS	Wireless communication connection status	Green LED is ON	Remote is connected correctly.
			Red LED flashes.	No remotes connected.
			Red LED is ON.	No remotes connected (Non-restorable error in wireless communication)
			Red/Green	Wireless communication connection is under construction. (Pairing)
			Orange LED is ON.	Forced output mode
OFF	Base module is not registered.			
4	MS	Remote module system status	Green LED is ON.	Remote module is normal.
			Red LED flashes.	Restorable error is detected. (LED flashes when one diagnostic information item or more is detected.) <ul style="list-style-type: none"> · Abnormal power supply voltage level for control and input (Applicable when the control and input power supply voltage monitoring setting is enabled) · Excessive I/O setting inputs/outputs · Analogue I/O upper set limit exceeded · Analogue input range upper and lower limit exceeded · Error in communication between units · EX600 I/O unit detects diagnostic information · Valve diagnostic information detected
			Red LED is ON.	Non-restorable error is detected. (e.g. Hardware failure)
			OFF	Power supply for control and input (US1) is not supplied.

EX600-W Series

Accessories (Optional Parts)



1 End Plate Bracket

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

EX600-ZMA2

Enclosed parts

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



EX600-ZMA3

(Specialised for the SY series)

Enclosed parts

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

3 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.



2 Valve Plate

EX600-ZMV1

Enclosed parts

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



EX600-ZMV2

(Specialised for the SY series)

Enclosed parts

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



4 Seal Cap (10 pcs.)

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

For M8
EX9-AWES

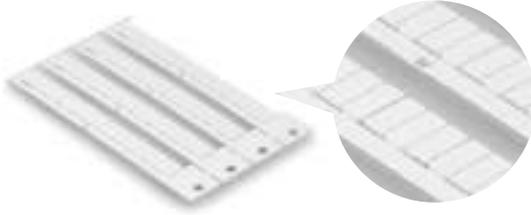
For M12
EX9-AWTS



5 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



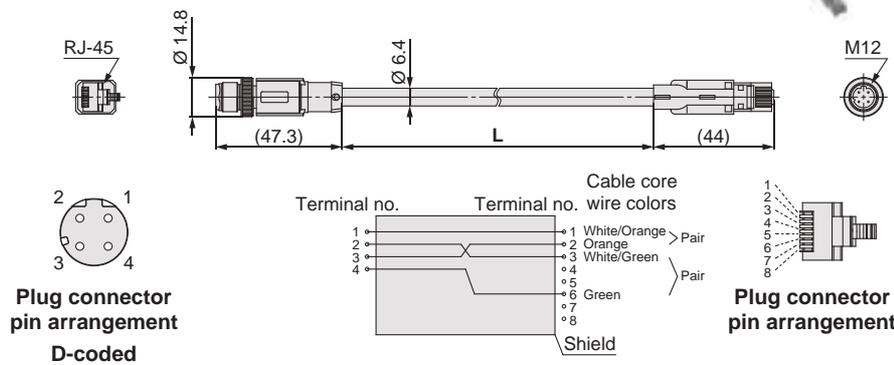
6 Communication Cable with Connector/Communication Connector

Cable with M12 ↔ RJ-45 connector

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

• Cable length (L)

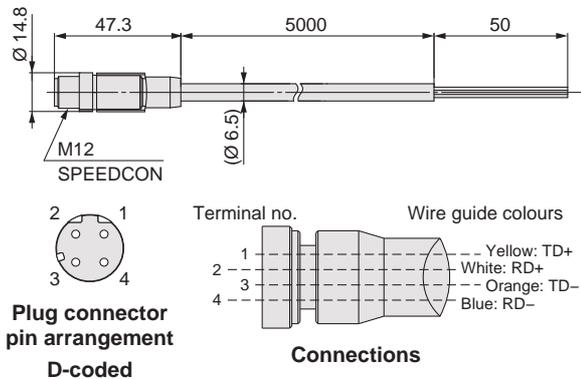
010	1000 mm
020	2000 mm
030	3000 mm
050	5000 mm
100	10000 mm



Item	Specifications
Cable O.D.	Ø 6.4 mm
Nominal cross section	0.14 mm ² /AWG26
Wire diameter	0.98 mm
Min. bending radius	26 mm (Fixed)

Cable with connector

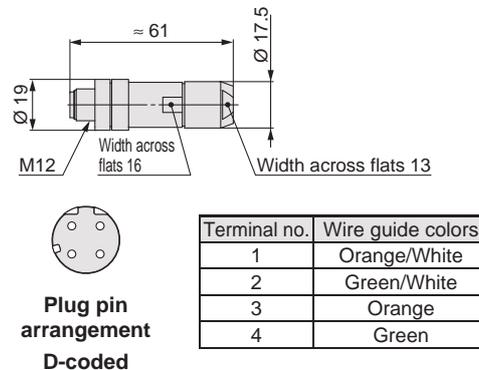
PCA-1446566 (Plug)



Item	Specifications
Cable O.D.	Ø 6.5 mm
Nominal cross section	AWG22
Wire diameter (Including insulator)	1.5 mm
Min. bending radius	45.5 mm

Field wireable connector

PCA-1446553



Applicable Cable

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

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

EX600-W Series

⑦ Power Supply Cable with M12 Connector (A-coded)



EX500-AP **050** - **S**

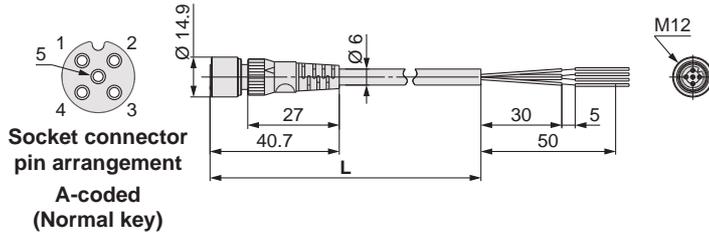
Cable length (L)

010	1000 mm
050	5000 mm

Connector specification

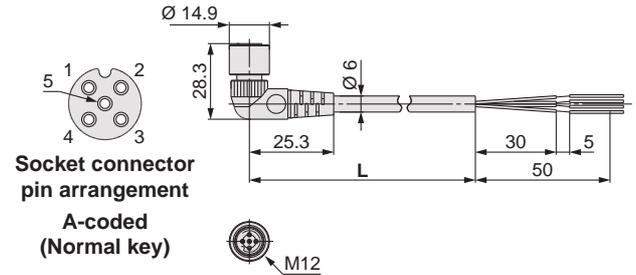
S	Straight
A	Angle

Straight connector type

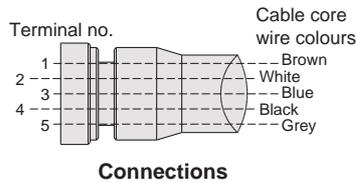


Item	Specifications
Cable O.D.	Ø 6 mm
Nominal cross section	0.3 mm ² /AWG22
Wire diameter (Including insulator)	1.5 mm
Min. bending radius	40 mm (Fixed)

Angle connector type



Item	Specifications
Cable O.D.	Ø 6 mm
Nominal cross section	0.3 mm ² /AWG22
Wire diameter (Including insulator)	1.5 mm
Min. bending radius	40 mm (Fixed)

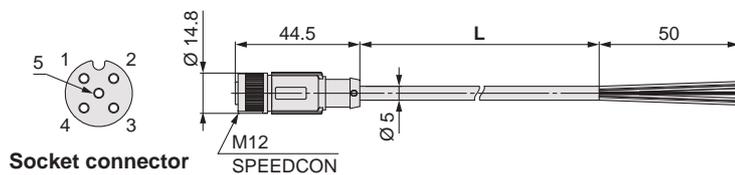


SPEEDCON

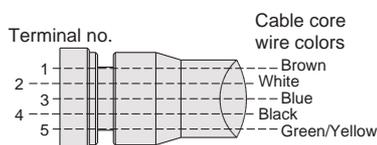
PCA- **1401804**

Cable length (L)

1401804	1500 mm
1401805	3000 mm
1401806	5000 mm



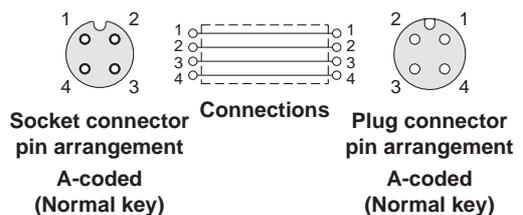
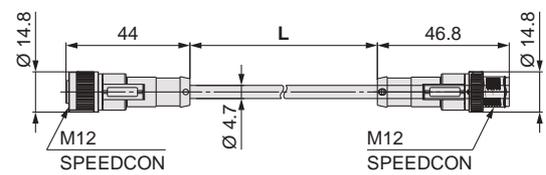
Item	Specifications
Cable O.D.	Ø 5 mm
Nominal cross section	0.3 mm ² /AWG22
Wire diameter (Including insulator)	1.27 mm
Min. bending radius	21.7 mm (Fixed)



PCA- **1557769**

Cable length (L)

1557769	3000 mm
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⑦ Power Supply Cable with M12 Connector (B-coded)

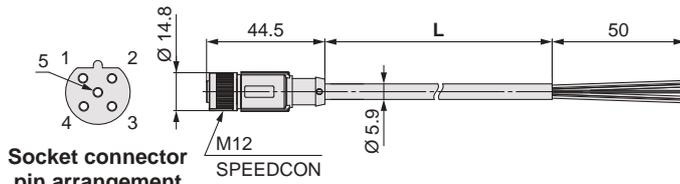
SPEEDCON

PCA-1564927

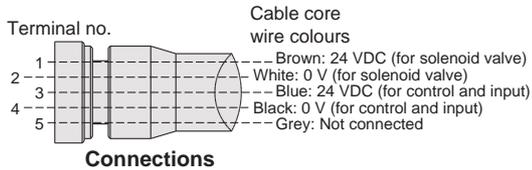
● **Socket specification, Cable length (L)**

1564927	Straight 2 m
1564930	Straight 6 m
1564943	Angle 2 m
1564969	Angle 6 m

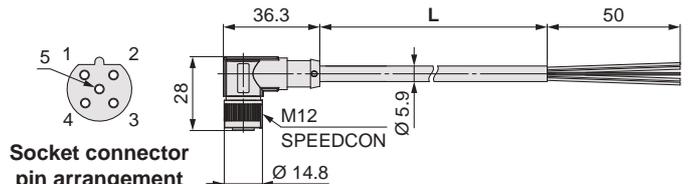
Straight connector type



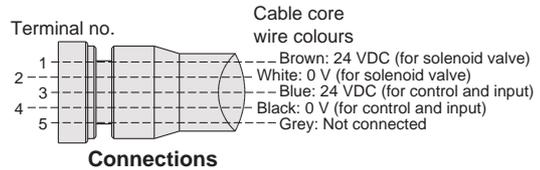
Socket connector pin arrangement B-coded (Reverse key)



Angle connector type



Socket connector pin arrangement B-coded (Reverse key)



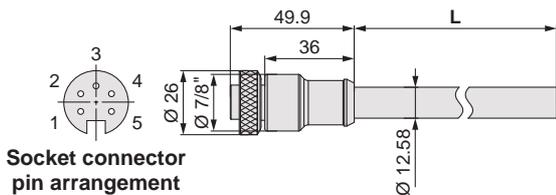
⑧ Power Supply Cable with 7/8 Inch Connector/Power Supply Connector

PCA- **1558810**

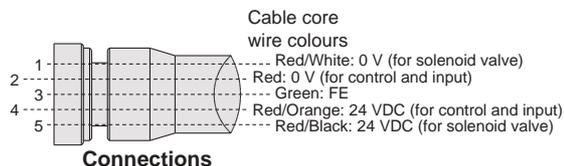
• **Specifications**

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

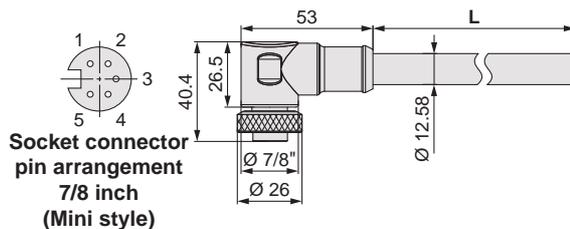
Straight connector type



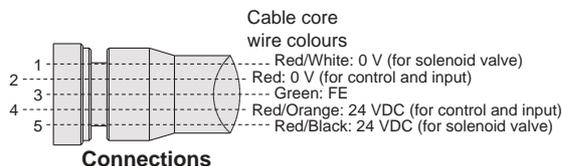
Socket connector pin arrangement 7/8 inch (Mini style)



Angle connector type



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

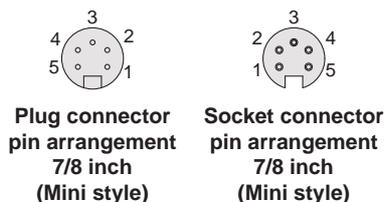
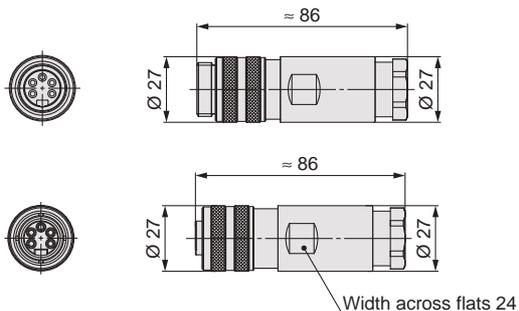


Field wireable connector

PCA- **1578078**

• **Specifications**

Symbol	Connector specification
1578078	Plug
1578081	Socket



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

Applicable Cable

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

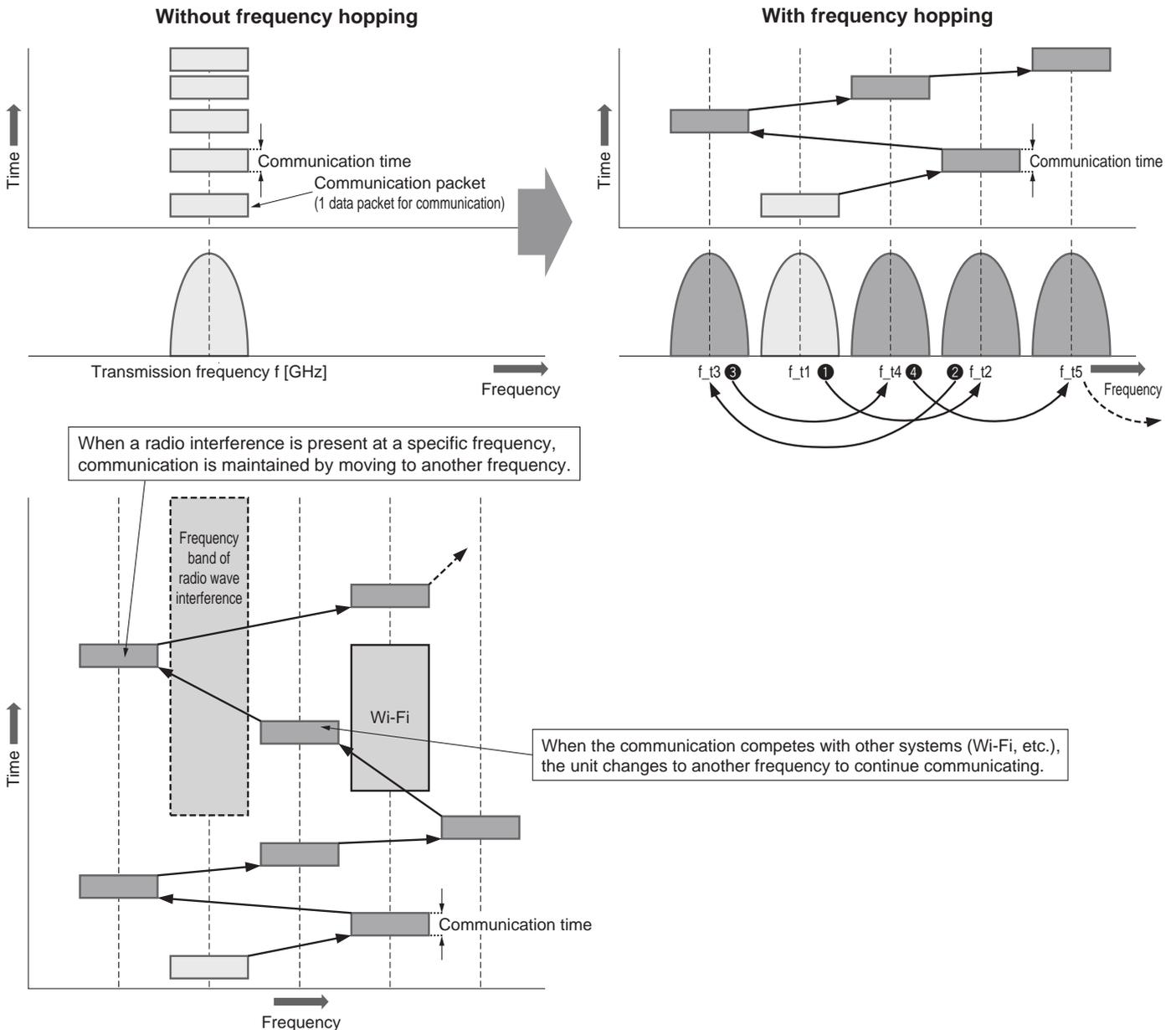
* The table above shows the specifications for the applicable cable. Adaptation for the connector may vary on account of the conductor construction of the electric wire.

* For further information on cables and connectors, refer to the M8/M12 connector PCA series in the **catalogue on www.smc.eu**.

EX600-W Series Technical Data

Frequency Hopping (FHSS: Frequency Hopping Spread Spectrum)

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



⚠ Warning <Important>

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

* As of end of December, 2018

Safety Instructions

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

-  **Caution:** **Caution** indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
-  **Warning:** **Warning** indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.
-  **Danger:** **Danger** indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

- *1) ISO 4414: Pneumatic fluid power – General rules relating to systems.
- ISO 4413: Hydraulic fluid power – General rules relating to systems.
- IEC 60204-1: Safety of machinery – Electrical equipment of machines.
(Part 1: General requirements)
- ISO 10218-1: Manipulating industrial robots - Safety.
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. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.

1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalogue.
3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

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.

Caution

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

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

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary.

If anything is unclear, contact your nearest sales branch.

Caution

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

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

Safety Instructions

Be sure to read “Handling Precautions for SMC Products” (M-E03-3) before using.

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