

For Output

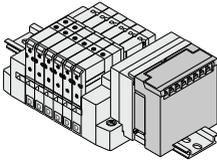
Series EX120/121/122



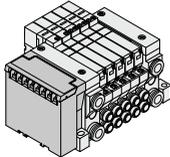
- ★ Small unit compatible with maximum 16 outputs
- ★ Compatible with a variety of communication networks

Series EX120

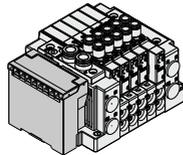
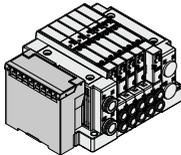
SV1000/2000/3000/4000



VQ1000/2000

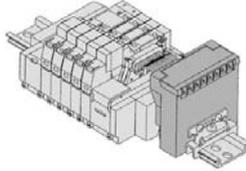


SY3000/5000



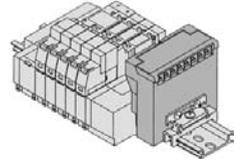
Series EX121

SY3000/5000



Series EX122

SY3000/5000



How to Order SI Unit

EX12 **0** - S **DN1**

Valve interface

0	Plug-in
1	Flat ribbon cable DIN rail mounting
2	Plug-in DIN rail mounting

Communication protocol

		CE-compliant
DN1	DeviceNet <small>Note 1)</small>	●
DN1-X26	DeviceNet <small>Note 1)</small>	●
MJ1	CC-Link	●
CS1	OMRON Corp.: CompoBus/S (16 outputs)	●
CS2	OMRON Corp.: CompoBus/S (8 outputs)	●
SL1	Panasonic Industrial Devices SUNX Co., Ltd.: S-LINK (16 outputs)	—
SL2	Panasonic Industrial Devices SUNX Co., Ltd.: S-LINK (8 outputs)	—
UW1	NKE Corp.: Fieldbus System	—
UH1	NKE Corp.: Fieldbus H System	—
CM1	CompoNet™ NPN (Positive common)	●
CM3	CompoNet™ PNP (Negative common)	●

Note 1) DN1's occupied points are 16 inputs and 16 outputs, while DN1-X26 has 0 inputs and 16 outputs.

Note 2) Please consult SMC for networks other than those above.

EX12□

EX140

EX180

EX260

EX250

EX600

EX500

EX510

PCA

EX□

Series EX120/121/122

SI Unit Specifications

Model		EX12□-SDN1	EX12□-SDN1-X26 ^{Note 4)}	EX12□-SMJ1	EX12□-SCS1 EX12□-SCS2	EX12□-SSL1 EX12□-SSL2	EX12□-SUW1	EX12□-SUH1
Communication	Applicable system	DeviceNet™		CC-Link	OMRON Corp.: CompoBus/S	Panasonic Industrial Devices SUNX Co., Ltd.: S-Link	NKE Corp.: Fieldbus System	NKE Corp.: Fieldbus H System
	Protocol Version ^{Note 1)}	Release 2.0		Ver. 1.10	—	—	—	—
	Communication speed	125 k/250 k/500 kbps		156 k/625 kbps 2.5 M/5 M/10 Mbps	750 kbps	28.5 kbps	28.5 kbps	29.4 kbps
	Configuration file ^{Note 2)}	EDS file		—				
	I/O occupation area (Inputs/Outputs)	16/16	0/16	32/32 (1 station, remote I/O stations)	SCS1: 0/16 SCS2: 0/8	SSL1: 0/16 SSL2: 0/8	0/16	0/16
	Terminating resistor	Not provided						
Power supply voltage	For unit	11 to 25 VDC		15 to 30 VDC	14 to 26.4 VDC	24 VDC+10%/−5% (Common power supply)	24 VDC±10% (Common power supply)	
	For valve	24 VDC+10%/−5%						
Internal current consumption (Unit)		100 mA or less						
Output	Output type	Sink/NPN (Positive common)						
	Number of outputs	16 points			SCS1/SSL1: 16 points SCS2/SSL2: 8 points		16 points	
	Load	Solenoid valve with surge voltage suppressor 24 VDC, 2.1 W or less (SMC)						
	Fail safe	Clear	Hold/Clear (Switch setting)	Clear	Hold/Clear (Switch setting)		Clear	
Environment	Enclosure	IP20						
	Operating temperature range	0 to +55°C (Valve 8 points ON) 0 to +50°C (Valve 16 points ON)						
	Operating humidity range	35 to 85%RH (With no condensation)						
	Withstand voltage	1500 VAC for 1 min. between whole external terminal and enclosure						
	Insulation resistance	2 MΩ or more (500 VDC) between whole external terminal and enclosure						
Standards		CE marking					—	
Weight		EX120: 110 g or less, EX121: 140 g or less, EX122: 130 g or less						
Accessory		Communication connector 1 pc., Power supply connector 1 pc.		—				

Note 1) Please note that the version is subject to change.

Note 2) Each file can be downloaded from SMC's website (<http://www.smworld.com>).

Note 3) For detailed specifications other than the above, refer to the operation manual that can be downloaded from SMC website. (<http://www.smworld.com>).

Note 4) Since this is a special product, a manifold part number is not specified. Please consult SMC for the manifold integrated type.

CompoNet™ Communication Specifications

Protocol	CompoNet™
Communication speed	93.75 kbps/1.5 M/3 M/4 Mbps
Configuration file	EDS file (Download from SMC's website)
I/O occupation area (Inputs/Outputs)	0/16
Terminating resistor	Not provided

Note) For details about the communication speed or each setting instruction, check the operation manual that can be downloaded from SMC website.

SI Unit Specifications

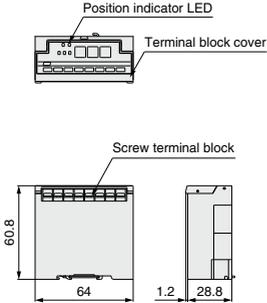
Model		EX120-SCM1	EX121-SCM1	EX122-SCM1	EX120-SCM3	EX121-SCM3	EX122-SCM3
Power supply voltage	For unit	14 to 26.4 VDC					
	For valve	24 VDC+10%/−5%					
Internal current consumption (Unit)		100 mA or less					
Output	Output type (Valve common polarity)	Sink/NPN output (Positive common)			Source/PNP (Negative common)		
	Number of outputs	16 points					
	Load	Solenoid valve with surge voltage suppressor 24 VDC, 2.1 W or less (SMC)					
	Fail safe	Hold/Clear (Setting via network)					
Environment	Enclosure	IP20					
	Operating temperature range	0 to +55°C (Valve 8 points ON) 0 to +50°C (Valve 16 points ON)					
	Operating humidity range	35 to 85%RH (With no condensation)					
	Withstand voltage	1500 VAC for 1 min. between whole external terminal and enclosure					
	Insulation resistance	2 MΩ or more (500 VDC) between whole external terminal and enclosure					
Standards		CE marking					
Weight		EX120: 100 g or less, EX121: 120 g or less, EX122: 110 g or less (including accessory)					
Accessory		Power supply connector (EX9-CP2) 1 pc. ^{Note)}					

Note) Communication connector (for the opposite side) is not provided.

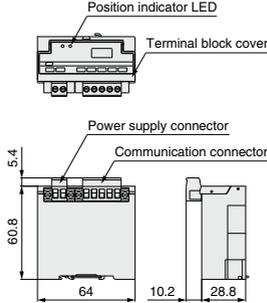
SI Unit Dimensions/Parts Description

EX120

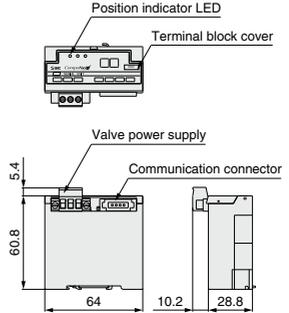
EX120-SMJ1, SCS□,
SSL□, SUW1, SUH1



EX120-SDN1(-X26)

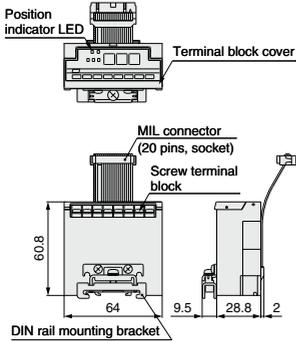


EX120-SCM□

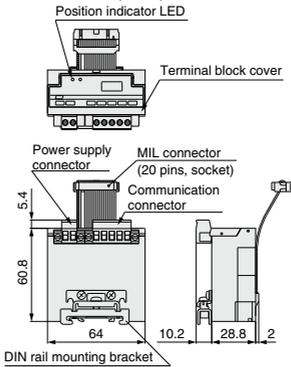


EX121

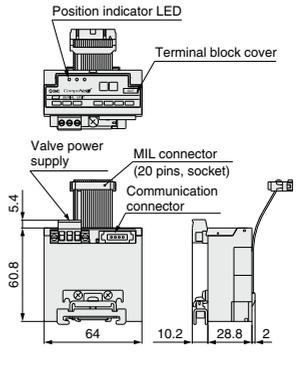
EX121-SMJ1, SCS□,
SSL□, SUW1, SUH1



EX121-SDN1(-X26)

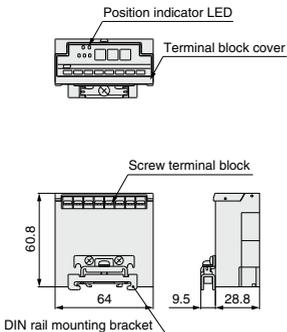


EX121-SCM□

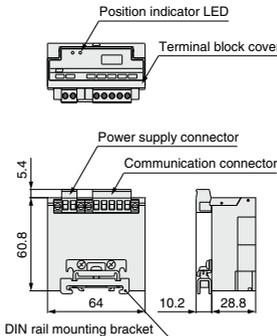


EX122

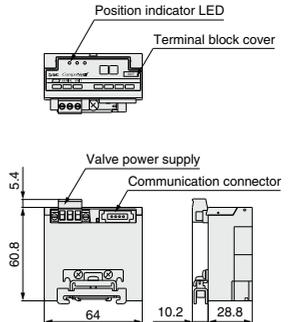
EX122-SMJ1, SCS□,
SSL□, SUW1, SUH1



EX122-SDN1(-X26)



EX122-SCM□



EX12□

EX140

EX180

EX260

EX250

EX600

EX500

EX510

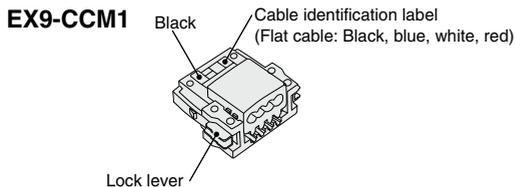
PCA

EX□

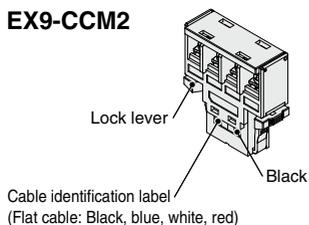
Series EX120/121/122

How to Order Options (For EX12□-SCM□)

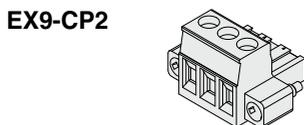
Communication connector: Press-in connector for flat cable.
Use this connector for the standard dedicated flat cable.



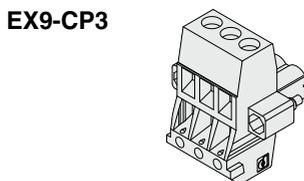
Communication connector: Terminal block connector for round cable (VCTF).
Use this connector for the VCTF cable.



Power supply connector: Straight type power supply connector. This connector is supplied at shipment.



Power supply connector: T-branch type power supply connector.



For Output

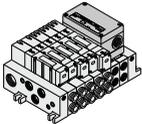
Series EX123/124/126



- ★ Enclosure IP65 (EX123, EX124), IP67 (EX126)
- ★ Maximum 16 outputs

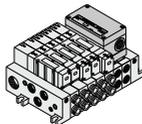
Series EX123

VQ2000/4000/5000



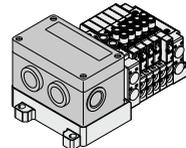
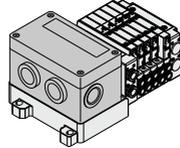
Series EX124

VQ2000/4000/5000



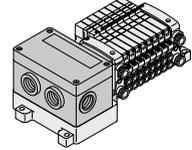
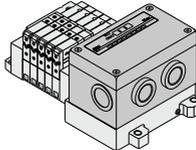
Series EX126

SV3000/5000



SV1000/2000/3000

VQC1000/2000/4000



How to Order SI Unit

EX123 U-S SL1

Unit specifications

3	Common power supply of unit and valve Enclosure IP65 Compatible with the VQ valves
----------	--

Mounting specifications

U	Mount a unit to the U side of the manifold
D	Mount a unit to the D side of the manifold

Communication protocol

		CE-compliant
SL1	Panasonic Industrial Devices SUNX Co., Ltd.: S-LINK (16 outputs)	—
SL2	Panasonic Industrial Devices SUNX Co., Ltd.: S-LINK (8 outputs)	—
UW1	NKE Corp.: Fieldbus System	—
UH1	NKE Corp.: Fieldbus H System	—

EX124 U-S DN1

Unit specifications

4	Separate power supply of unit and valve Enclosure IP65 Compatible with the VQ valves
----------	--

Mounting specifications

U	Mount a unit to the U side of the manifold
D	Mount a unit to the D side of the manifold

Communication protocol

		CE-compliant
DN1	DeviceNet <small>Note)</small>	●
DN1-X26	DeviceNet <small>Note)</small>	●
MJ1	CC-Link	●
CS1	OMRON Corp.: CompoBus/S (16 outputs)	●
CS2	OMRON Corp.: CompoBus/S (8 outputs)	●

Note) DN1's occupied points are 16 inputs and 16 outputs, while DN1-X26 has 0 inputs and 16 outputs.

EX126 D-S MJ1

Unit specifications

6	Separate power supply of unit and valve Enclosure IP67 Compatible with the SY/SV/VQC valves
----------	---

Mounting specifications

D	Mount a unit to the D side of the manifold
----------	--

Communication protocol

		CE-compliant
MJ1	CC-Link	●

EX12□

EX140

EX180

EX260

EX250

EX600

EX500

EX510

PCA

EX□

Series EX123/124/126

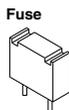
How to Order Options

Fuse for replacement

A fuse for replacement used for EX126D-SMJ1.

EX9-FU20

Applicable model	EX126D-SMJ1
Rated current	2.0 A



Dripproof plug assembly

Use for the unused conduit port (G1/2).

AXT100-B04A

SI Unit Specifications

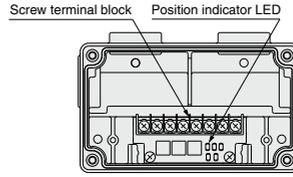
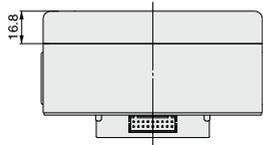
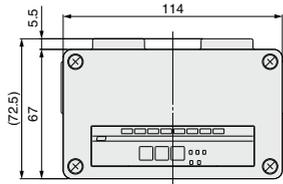
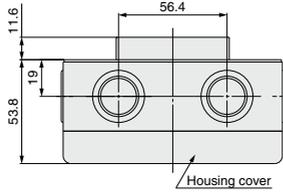
The electrical specification is the same for EX12□. Refer to page 2052.

The weight of the EX123, 124, or 126 is 240g or less.

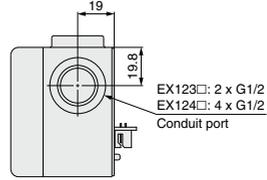
4 unit mounting screws (M4 x 10) are included when shipped.

SI Unit Dimensions/Parts Description

EX123□-S□□□, EX124□-S□□□

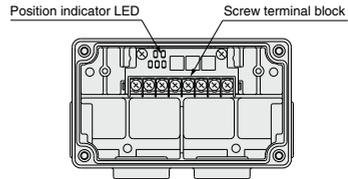
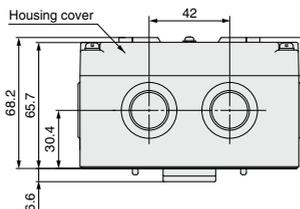
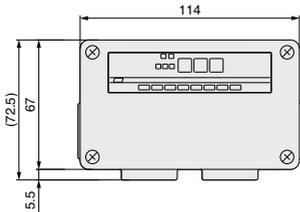
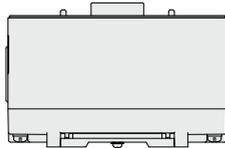


Housing cover diagram

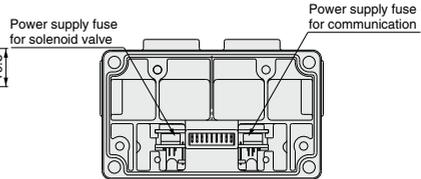
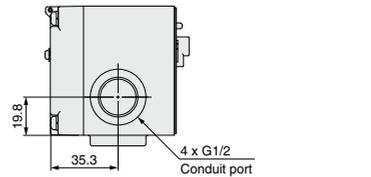


Note) The housing cover of the EX124U/D-SMJ1 is the same as that of the EX126D-SMJ1.

EX126D-SMJ1



Housing cover diagram



Housing bottom diagram

EX12□

EX140

EX180

EX260

EX250

EX600

EX500

EX510

PCA

EX□