

# Fieldbus System (For Output)

## EX120/121/122 Series



Compatible Protocols

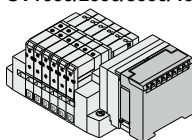
**DeviceNet**   
**CompoNet**

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

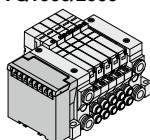
### Manifold Solenoid Valves

#### EX120 Series

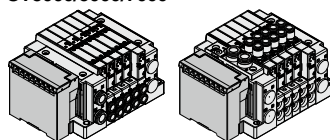
SV1000/2000/3000/4000



VQ1000/2000

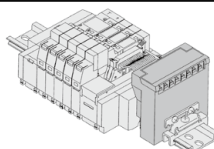


SY3000/5000/7000



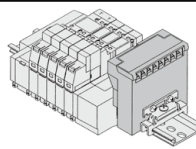
#### EX121 Series

SY3000/5000



#### EX122 Series

SY3000/5000



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### Fieldbus System (For Output) EX120/121/122 Series

EX120



EX121



EX122



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#### Accessories

① Communication Connector .....	p. 1294
② Power Supply Connector .....	p. 1294

#### Made to Order


① DeviceNet® PNP (Negative common) output, Occupied points: 16 inputs/16 outputs .....	p. 1294
② DeviceNet® PNP (Negative common) output, Occupied points: 0 inputs/16 outputs .....	p. 1294

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# Fieldbus System For Output

## EX120/121/122 Series

### How to Order SI Unit

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

#### Valve interface

<b>0</b>	Plug-in
<b>1</b>	Flat ribbon cable DIN rail mounting
<b>2</b>	Plug-in DIN rail mounting

#### Made to Order (Refer to page 1294.)

Protocol	Output polarity	Occupied points
DeviceNet®	PNP (Negative common)	16 inputs/ 16 outputs
DeviceNet®	PNP (Negative common)	0 inputs/ 16 outputs

#### Protocol

<b>DN1</b>	DeviceNet®*1
<b>DN1-X26</b> *2	DeviceNet®*1
<b>MJ1</b>	CC-Link
<b>CM1</b>	CompoNet® NPN (Positive common)
<b>CM3</b>	CompoNet® PNP (Negative common)

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

\*2 A manifold part number is not specified for this model.  
Please contact SMC for the manifold integrated type.

## Specifications

### Common Specifications

Communication	Terminating resistor	Not provided
Internal current consumption (Unit)		100 mA or less
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 (No condensation)
	Withstand voltage	1500 VAC for 1 minute between whole external terminal and enclosure
	Insulation resistance	2 MΩ or more (500 VDC) between whole external terminal and enclosure

Model		EX12□-SDN1	EX12□-SDN1-X26	EX12□-SMJ1
Communication	Protocol	DeviceNet®		CC-Link
	Version*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
	Configuration file*2	EDS file		CSP+ file
	I/O occupation area (Inputs/Outputs)	16/16	0/16	32/32 (1 station, remote I/O stations)
Power supply voltage	For control	11 to 25 VDC		15 to 30 VDC
	For valve	24 VDC +10%/−5%		
Output	Output type	Sink/NPN (Positive common)		
	Number of outputs	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
	Standards	CE/UKCA 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.		—

\*1 Please note that the version is subject to change.

\*2 The setting file can be downloaded from the SMC website, <https://www.smcworld.com>

Model		EX12□-SCM1	EX12□-SCM3
Communication	Protocol	CompoNet®	
	Communication speed	93.75 kbps/1.5 M/3 M/4 Mbps	
	Configuration file	EDS file*1	
	I/O occupation area (Inputs/Outputs)	0/16	
	Power supply voltage	14 to 26.4 VDC	
Output	For control	24 VDC +10%/−5%	
	For valve	Sink/NPN (Positive common) Source/PNP (Negative common)	
	Output type	16 points	
	Number of outputs	Solenoid valve with surge voltage suppressor 24 VDC, 2.1 W or less (SMC)	
	Load	HOLD/CLEAR (Setting via network)	
Standards	Fail safe	CE/UKCA marking	
		EX120: 100 g or less EX121: 120 g or less EX122: 110 g or less (including accessory)	
Weight			
Accessory		Power supply connector (EX9-CP2) 1 pc.*2	

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

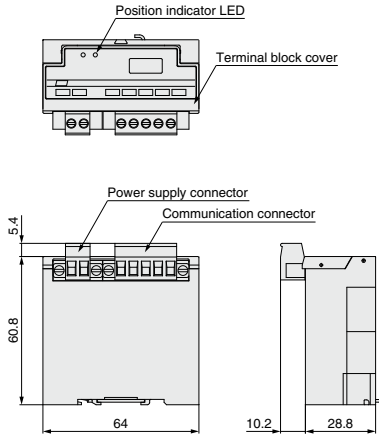
\*2 Communication connector (for the opposite side) is not provided.

# EX120/121/122 Series

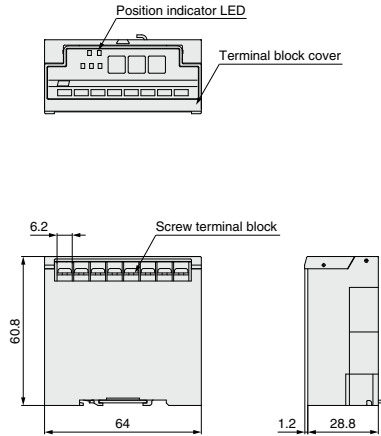
## Dimensions/Parts Description

### EX120

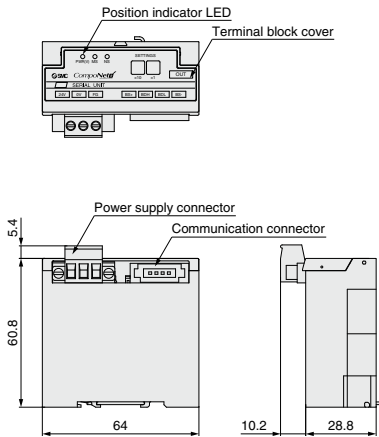
EX120-SDN1(-X26)



### EX120-SMJ1



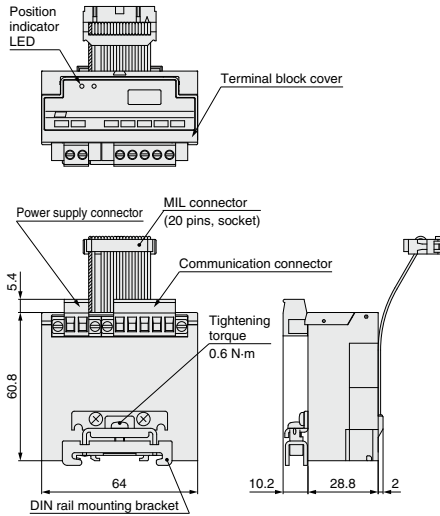
### EX120-SCM□



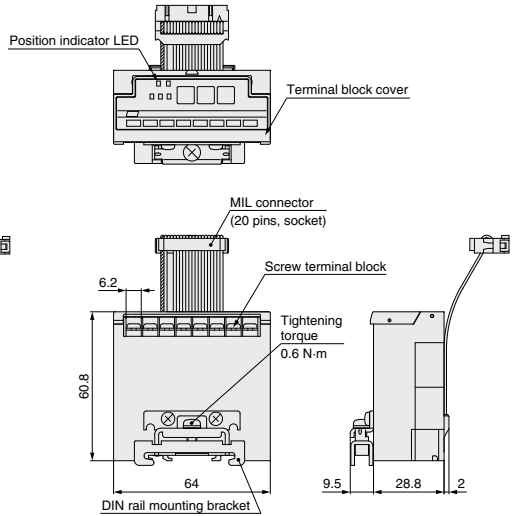
## Dimensions/Parts Description

### EX121

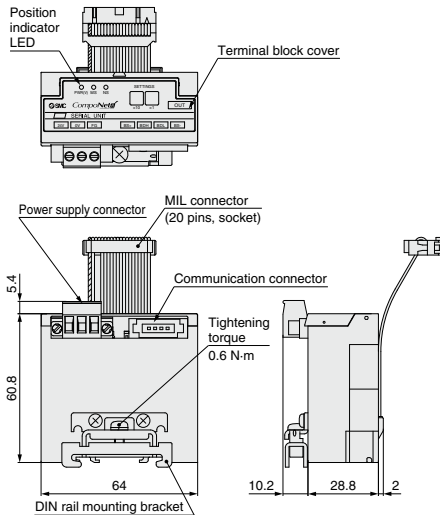
#### EX121-SDN1(-X26)



#### EX121-SMJ1



#### EX121-SCM□

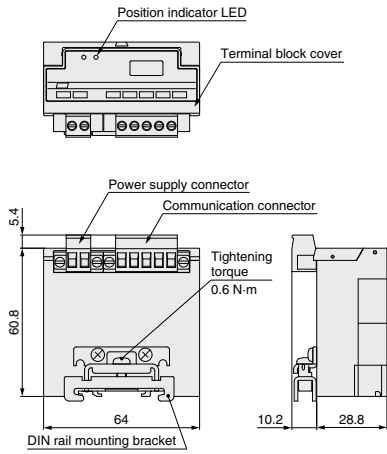


# EX120/121/122 Series

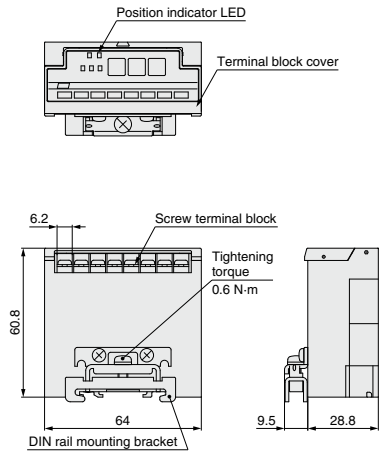
## Dimensions/Parts Description

### EX122

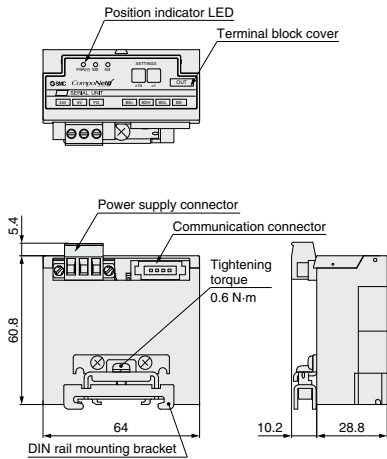
#### EX122-SDN1(-X26)



#### EX122-SMJ1

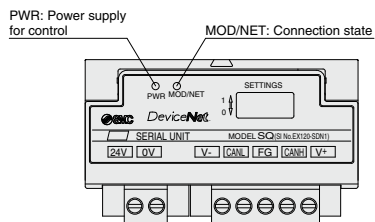


### EX122-SCM

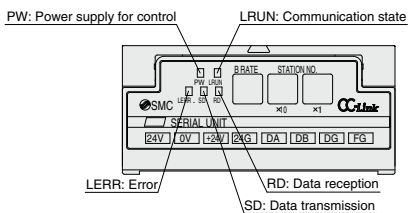


## LED Indicator

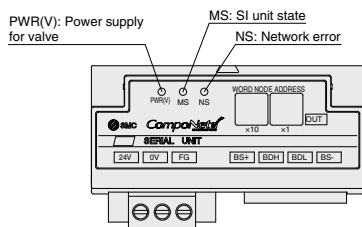
### EX12□-SDN1



### EX12□-SMJ1



### EX12□-SCM□



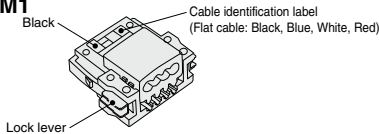
# EX120/121/122 Series

## Accessories (For EX12□-SCM□)

### ① Communication Connector

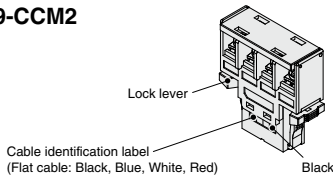
Press-in connector for flat cables  
Use this connector for the standard dedicated flat cable.  
The communication connector does not come with this product.

#### EX9-CCM1



Terminal block connector for round cables (VCTF)  
Use this connector for the VCTF cable.  
The communication connector does not come with this product.

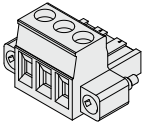
#### EX9-CCM2



### ② Power Supply Connector

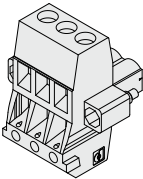
Straight type power supply connector  
This connector is supplied at the time of shipment.

#### EX9-CP2



T-branch type power supply connector  
This connector is not supplied at the time of shipment.

#### EX9-CP3



## Made to Order

Please contact SMC for detailed specifications and lead times.  
Prepare the SI unit and manifold valve (without SI unit) separately, and combine them before use.

### ① DeviceNet® PNP (Negative common) output, Occupied points: 16 inputs/16 outputs

#### EX12□-SDN1-X2

●Valve interface

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

●Dimensions are the same as those of the standard type.

### ② DeviceNet® PNP (Negative common) output, Occupied points: 0 inputs/16 outputs

#### EX12□-SDN1-X77

●Valve interface

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

●Dimensions are the same as those of the standard type.

## ⚠ Specific Product Precautions

Be sure to read this before handling the products. Refer to page 7 for safety instructions and pages 15 to 17 for fieldbus system precautions.

### Operating Environment

#### ⚠ Warning

1. Do not use this product in the presence of dust, particles, water, chemicals, and oil. Use around such materials is likely to cause a malfunction or breakage.

#### ■ Trademark

DeviceNet® is a registered trademark of ODVA, Inc.  
CompoNet® is a registered trademark of ODVA, Inc.



# Fieldbus System (For Output)

## EX124/126 Series



### Compatible Protocols

**DeviceNet** 

Made to Order **CompoNet**

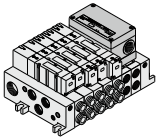
★Enclosure IP65 (EX124), IP67 (EX126)

★Maximum 16 outputs

### Manifold Solenoid Valves

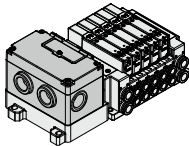
#### EX124 Series

VQ2000/4000/5000

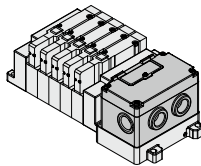


#### EX126 Series

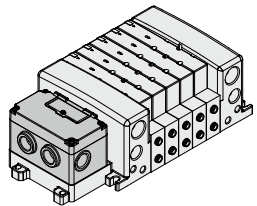
SY3000/5000/7000



SV1000/2000/3000



VQC1000/2000/4000/5000



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### Fieldbus System (For Output)

#### EX124/126 Series



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① Replacement Fuse .....	p. 1299
② Drip Proof Plug Assembly .....	p. 1299

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② DeviceNet® PNP (Negative common), Occupied points: 0 inputs/16 outputs .....	p. 1300
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# Fieldbus System For Output

## EX124/126 Series

### How to Order SI Unit

**EX124** **U** - S **DN1** - 

#### Unit specifications

<b>4</b>	Separate power supply of control and valve Enclosure IP65 Compatible with the VQ valves
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#### Mounting specifications

<b>U</b>	Mount a unit to the U side of the manifold
<b>D</b>	Mount a unit to the D side of the manifold

#### Made to Order (Refer to page 1300.)

Protocol	Output polarity	Occupied points
DeviceNet®	PNP (Negative common)	16 inputs/ 16 outputs
DeviceNet®	PNP (Negative common)	0 inputs/ 16 outputs

#### Protocol

<b>DN1</b>	DeviceNet®*1
<b>DN1-X26</b>	DeviceNet®*1
<b>MJ1</b>	CC-Link

\*1 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

<b>6</b>	Separate power supply of control and valve Enclosure IP65 Compatible with the SY/SV/VQC valves
----------	--

#### Mounting specifications

<b>D</b>	Mount a unit to the D side of the manifold
----------	--

#### Protocol

<b>MJ1</b>	CC-Link
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## Specifications

### Common Specifications

Communication	Terminating resistor	Not provided
Internal current consumption (Unit)		100 mA or less
Output	Output type	Sink/NPN (Positive common)
	Load	Solenoid valve with surge voltage suppressor 24 VDC, 2.1 W or less (SMC)
Environmental resistance	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 (No condensation)
	Withstand voltage	1500 VAC for 1 minute between whole external terminal and enclosure
	Insulation resistance	2 MΩ or more (500 VDC) between whole external terminal and enclosure
Weight		240 g or less
Accessory		4 unit mounting screws (M4 x 10)

Model			EX124□-SDN1	EX124□-SDN1-X26*3
Communication	Applicable system	Protocol	DeviceNet®	DeviceNet®
		Version*1	Release 2.0	
	Communication speed		125 k/250 k/500 kbps	
	Configuration file*2		EDS file	
	I/O occupation area (Inputs/Outputs)		16/16	0/16
Power supply voltage	For control		11 to 25 VDC	
	For valve		24 VDC +10%/−5%	
Output	Number of outputs		16 points	
	Fail safe		CLEAR	HOLD/CLEAR (Switch setting)
Environment	Enclosure		IP65	
Standards			CE/UKCA marking	

Model			EX124□-SMJ1	EX126D-SMJ1
Communication	Applicable system	Protocol	CC-Link	
		Version*1	Ver. 1.10	
	Communication speed		156 k/625 kbps 2.5 M/5 M/10 Mbps	
	Configuration file*2		CSP+ file	
	I/O occupation area (Inputs/Outputs)		32/32 (1 station, remote I/O stations)	
Power supply voltage	For control		15 to 30 VDC	
	For valve		24 VDC +10%/−5%	
Output	Number of outputs		16 points	
	Fail safe		CLEAR	
Environment	Enclosure		IP65	IP67
Standards			CE/UKCA marking	

\*1 Please note that the version is subject to change.

\*2 The setting file can be downloaded from the SMC website, <https://www.smcworld.com>

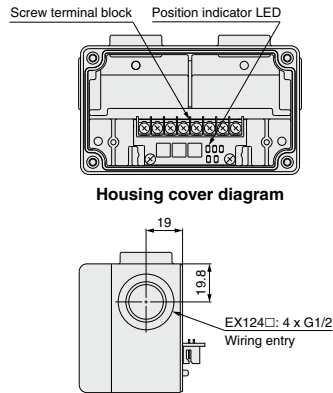
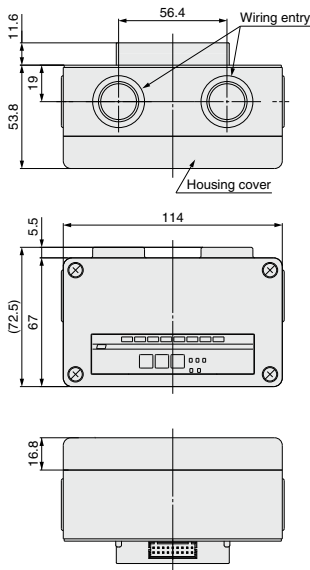
\*3 Since this is a special product, a manifold part number is not specified. Please consult SMC for the manifold integrated type.

\* For detailed specifications other than the above, refer to the operation manual that can be downloaded from SMC website, <https://www.smcworld.com>

# EX124/126 Series

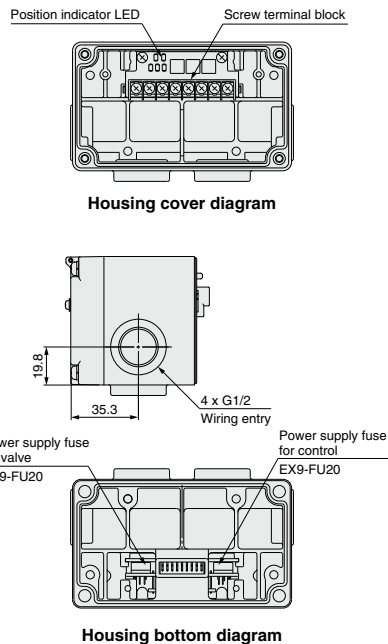
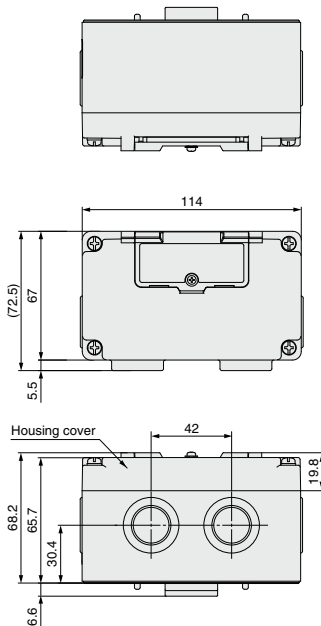
## Dimensions/Parts Description

### EX124□-S□□□



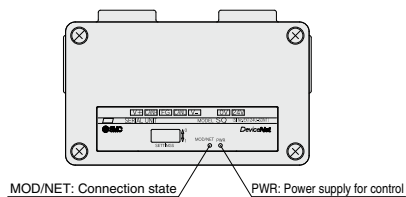
\* The housing cover of the EX124U/D-SMJ1 is the same as that of the EX126D-SMJ1.

### EX126D-SMJ1

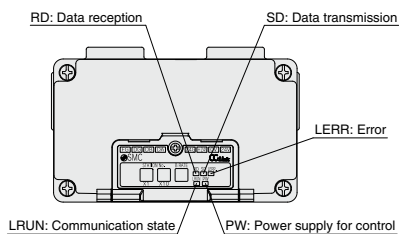


## LED Indicator

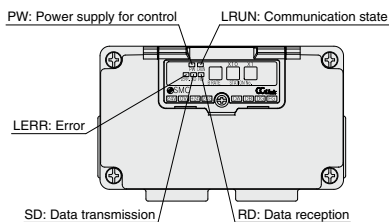
### EX124□-SDN1



### EX124□-SMJ1



### EX126D-SMJ1



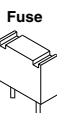
## Accessories

### ① Replacement Fuse

A replacement fuse for the EX126D-SMJ1

#### EX9-FU20

Applicable model	EX126D-SMJ1
Rated current	2.0 A



### ② Drip Proof Plug Assembly

Use when the wiring entry (G1/2) is not being used.  
Incorrect handling of the wiring entry may allow foreign matter to enter the SI unit, which will lead to a malfunction and damage to the SI unit.

#### AXT100-B04A

# EX124/126 Series

Please contact SMC for detailed specifications and lead times.  
Prepare the SI unit, signal cut block, and manifold valve (without SI unit) separately, and combine them before use.



## Made to Order

### ① DeviceNet® PNP (Negative common), Occupied points: 16 inputs\*1 /16 outputs

#### EX124[U]-SDN1-X2

##### ● Mounting specifications

<b>U</b>	Mount a unit to the U side of the manifold
<b>D</b>	Mount a unit to the D side of the manifold

- Dimensions are the same as those of the standard type.

\*1 The SI unit cannot be connected to an input device but occupies memory areas of 16 input points (2 bytes) as a mirror function of output data.  
The mirror function is used to transmit output data received by the SI unit as input data exactly as it is.

### ② DeviceNet® PNP (Negative common), Occupied points: 0 inputs/16 outputs

#### EX124[U]-SDN1-X77

##### ● Mounting specifications

<b>U</b>	Mount a unit to the U side of the manifold
<b>D</b>	Mount a unit to the D side of the manifold

- Dimensions are the same as those of the standard type.

### ③ CompoNet®

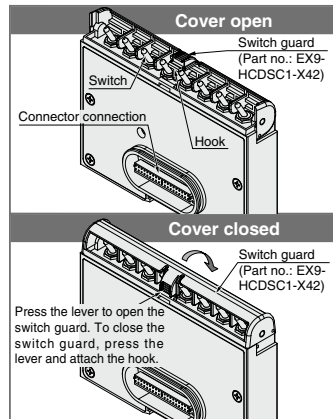
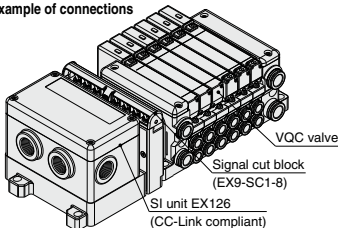
- Please contact SMC for details.

### ④ Signal cut block

#### EX9-SC1-8

- A switch unit that forcibly turns OFF the output signal to the valve by means of a toggle switch operation in double 1-station units
- Open the switch guard to prevent misoperation, and then carry out the operation.
- It comes with a safety mechanism which returns the switch to the normal position (AUTO) after the switch guard is closed.
- Enclosure: IP67

##### Example of connections



## ⚠ Specific Product Precautions

Be sure to read this before handling the products.  
Refer to page 7 for safety instructions and pages 15 to 17 for fieldbus system precautions.

## Operating Environment

### ⚠ Caution

1. Select the proper type of enclosure according to the operating environment.

IP65/67 is achieved when the following conditions are met.

- 1) Provide appropriate wiring between all units using electrical wiring cables and communication connectors cables.
- 2) For wiring, use a G1/2 cable gland.
- 3) Appropriately mount each unit and valve manifold.
- 4) Be sure to install a drip proof plug assembly (AXT100-B04A) on each unused connector. This is to prevent the risk of the SI unit malfunctioning or breaking down.  
If using in an environment that is exposed to water splashes, please take measures such as using a cover.

#### ■ Trademark

DeviceNet® is a registered trademark of ODVA, Inc.  
CompoNet® is a registered trademark of ODVA, Inc.

# Fieldbus System (For Output)

## EX140 Series



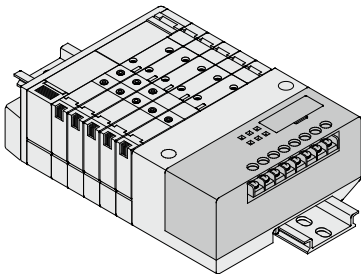
Compatible Protocols

DeviceNet    CC-Link

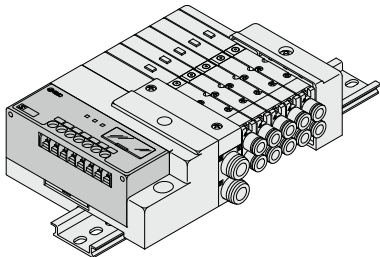
- ★ Thinner unit with low height
- ★ Maximum 16 outputs

### Manifold Solenoid Valves

SZ3000



SQ1000/2000



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Type 1    Output type for solenoid valves

### Fieldbus System (For Output) EX140 Series



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# Fieldbus System For Output

# EX140 Series



## How to Order SI Unit

EX140-S **DN1**

### • Protocol

<b>DN1</b>	DeviceNet®
<b>MJ1</b>	CC-Link

## Specifications

Model			EX140-SDN1	EX140-SMJ1
Communication	Applicable system	Protocol Version*1	DeviceNet® Release 2.0	CC-Link Ver. 1.10
	Communication speed		125 k/250 k/500 kbps	156 k/625 kbps 2.5 M/5 M/10 Mbps
	Configuration file*2		EDS file	CSP+ file
	I/O occupation area (Inputs/Outputs)		0/16	32/32 (1 station, remote I/O stations)
	Terminating resistor		Not provided	
	Power supply voltage	For control	11 to 25 VDC	15 to 30 VDC
		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 outputs	
	Load		Solenoid valve with surge voltage suppressor 24 VDC, 2.1 W or less (SMC)	
	Fail safe		HOLD/CLEAR (Switch setting)	
Environmental resistance	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 (No condensation)	
	Withstand voltage		1500 VAC for 1 minute between whole external terminal and enclosure	
	Insulation resistance		2 MΩ or more (500 VDC) between whole external terminal and enclosure	
Standards			CE/UKCA marking	
Weight			80 g or less	
Accessory			Communication connector 1 pc., Power supply connector 1 pc.	—

\*1 Please note that the version is subject to change.

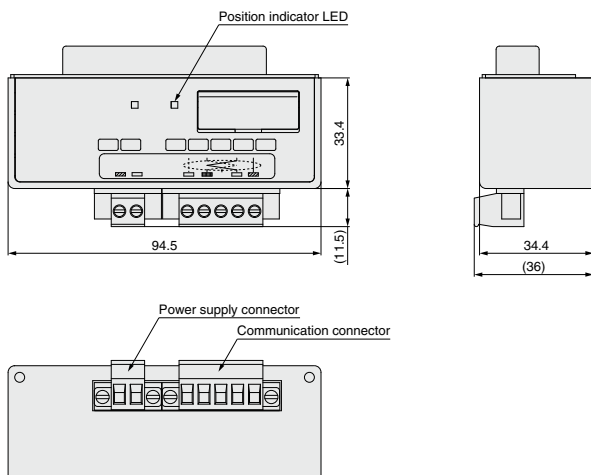
\*2 The setting file can be downloaded from SMC website, <https://www.smcworld.com>

\* For detailed specifications other than the above, refer to the operation manual that can be downloaded from SMC website, <https://www.smcworld.com>

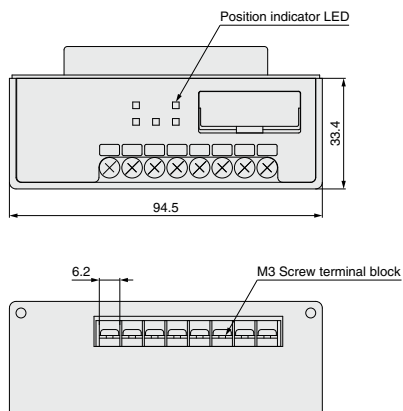


## Dimensions/Parts Description

### EX140-SDN1



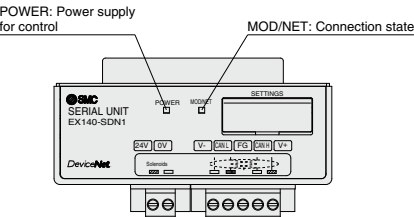
### EX140-SMJ1



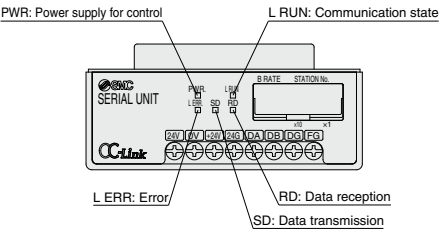
# EX140 Series

## LED Indicator

### EX140-SDN1



### EX140-SMJ1



## ⚠ Specific Product Precautions

Be sure to read this before handling the products. Refer to page 7 for safety instructions and pages 15 to 17 for fieldbus system precautions.

### Operating Environment

#### ⚠ Warning

1. Do not use this product in the presence of dust, particles, water, chemicals, and oil. Use around such materials is likely to cause a malfunction or breakage.

■ Trademark  
DeviceNet® is a registered trademark of ODVA, Inc.

# Fieldbus System (For Output)

## EX180 Series

### Compatible Protocols

**DeviceNet**   CC-Link

Made to Order   **AnyWireASLINK**

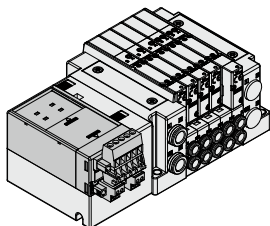


★ **Thinner unit with low height**

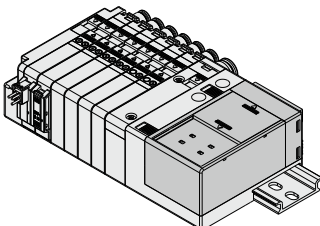
★ **Maximum 32 outputs**

### Manifold Solenoid Valves

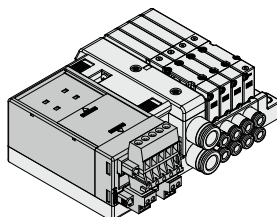
**SY3000/5000/7000**



**SJ1000/2000/3000**



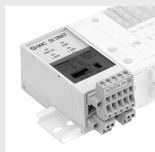
**S0700**



## CONTENTS

### Fieldbus System (For Output)

## EX180 Series



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#### Made to Order

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# Fieldbus System For Output

# EX180 Series



## How to Order SI Unit

EX180-S **DN3** -

### Protocol

<b>DN3</b>	DeviceNet® (32 points Sink/NPN (Positive common))
<b>DN4</b>	DeviceNet® (16 points Sink/NPN (Positive common))
<b>DN5</b>	DeviceNet® (32 points Source/PNP (Negative common))
<b>DN6</b>	DeviceNet® (16 points Source/PNP (Negative common))
<b>MJ3</b>	CC-Link (32 points Sink/NPN (Positive common))
<b>MJ5</b>	CC-Link (32 points Source/PNP (Negative common))

### Made to Order (Refer to page 1309.)

Protocol
AnyWireASLINK

### Communication connector type

<b>Nil</b>	T-branch type
<b>A</b>	Straight type

\* Communication and power supply connectors are included.

## Specifications

Model			EX180-SDN3 EX180-SDN4		EX180-SDN5 EX180-SDN6		EX180-SMJ3		EX180-SMJ5	
Communication	Applicable system	Protocol	DeviceNet®				CC-Link			
		Version*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			
	Configuration file*2		EDS file				CSP+ file			
	I/O occupation area (Inputs/Outputs)		SDN3: 0/32 SDN4: 0/16		SDN5: 0/32 SDN6: 0/16		32/32 (1 station)			
	Terminating resistor		Not provided				Built into the unit (Switch setting, 110 Ω)			
Power supply voltage	For control		11 to 25 VDC				24 VDC ±10%			
	For valve		24 VDC ±10%/–5%							
Internal current consumption (Unit)			0.1 A or less							
Output	Output type		Sink/NPN (Positive common)		Source/PNP (Negative common)		Sink/NPN (Positive common)		Source/PNP (Negative common)	
	Number of outputs		SDN3: 32 outputs SDN4: 16 outputs		SDN5: 32 outputs SDN6: 16 outputs		32 outputs			
	Load		SY3000/5000/7000, SJ2000/3000, S0700 series manifold valves							
	Fail safe		HOLD/CLEAR (Switch setting)							
Environmental resistance	Enclosure		IP20							
	Operating temperature range		–10 to 50°C							
	Operating humidity range		35 to 85%RH (No condensation)							
	Withstand voltage		500 VAC for 1 minute between whole external terminal and FG							
Insulation resistance			10 MΩ or more (500 VDC) between whole external terminal and FG							
Standards			CE/UKCA marking, UL (CSA)						CE/UKCA marking, UL	
Weight			110 g or less (including accessory)							
Accessory			Communication connector 1 pc., Power supply connector 1 pc.				Communication connector 1 pc., Power supply connector 2 pcs.			

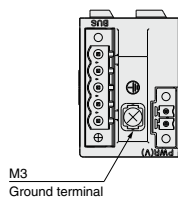
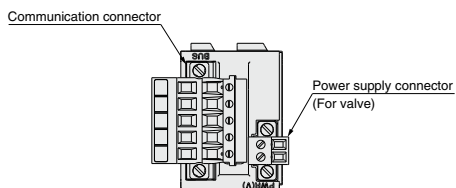
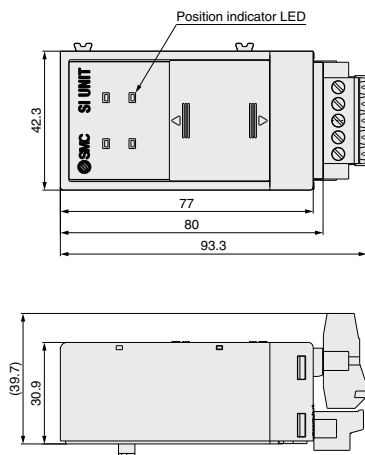
\*1 Please note that the version is subject to change.

\*2 The setting file can be downloaded from SMC website, <https://www.smcworld.com>

\* For detailed specifications other than the above, refer to the operation manual that can be downloaded from SMC website, <https://www.smcworld.com>

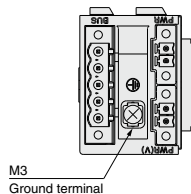
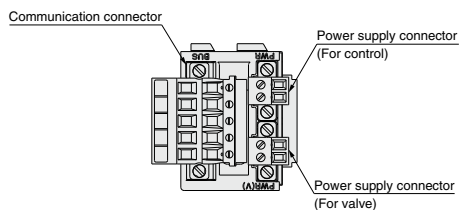
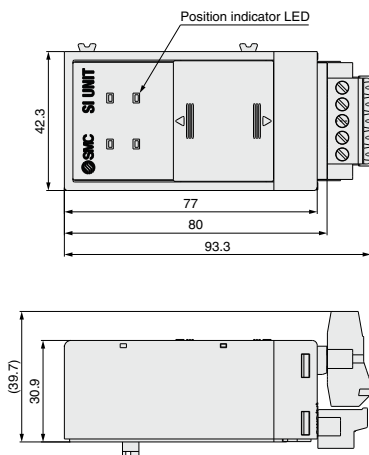
## Dimensions/Parts Description

### EX180-SDN□



Before mounting connector (accessory)

### EX180-SMJ□

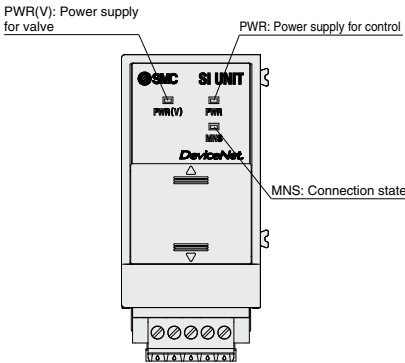


Before mounting connector (accessory)

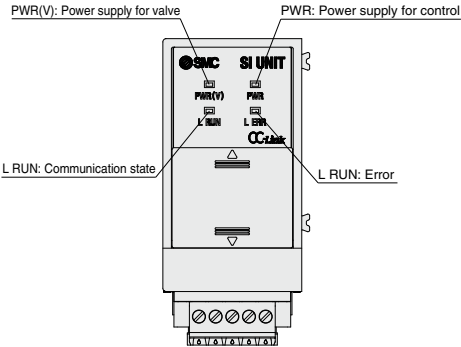
# EX180 Series

## LED Indicator

### EX180-SDN□



### EX180-SMJ□



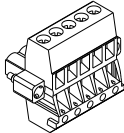
## Accessories

### ① Communication Connector

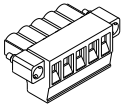
Connector for the network cable  
This connector is supplied at the time of shipment.

EX180-C **DN** **1**

Communication protocol		Communication connector type	
DN	For EX180-SDN□	1	T-branch type
MJ	For EX180-SMJ□	2	Straight type



EX180-C□□1



EX180-C□□2

### ② Power Supply Connector

Connector for power supply  
This connector is supplied at the time of shipment.

EX180-CP1

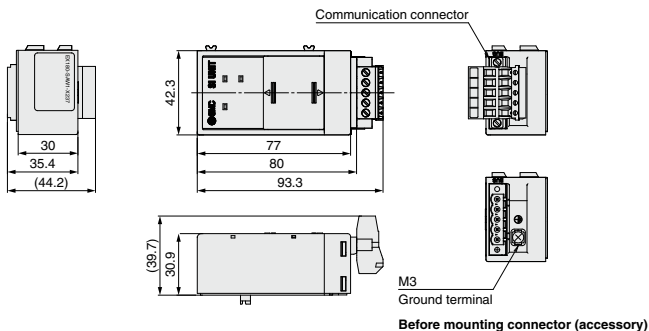


## Made to Order

Please contact SMC for detailed specifications and lead times.  
Prepare the SI unit and manifold valve (without SI unit) separately, and combine them before use.

### ① AnyWireASLINK NPN (Positive common), 32 outputs

#### EX180-SAW1-X237



## ⚠ Specific Product Precautions

Be sure to read this before handling the products. Refer to page 7 for safety instructions and pages 15 to 17 for fieldbus system precautions.

### Operating Environment

#### ⚠ Warning

- Do not use this product in the presence of dust, particles, water, chemicals, and oil. Use around such materials is likely to cause a malfunction or breakage.

#### ■ Trademark

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