Type 1 Output type for solenoid valves

Fieldbus System (For Output)

EX120/121/122 Series

Compatible Protocols

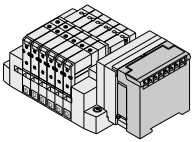
DeviceNet® CC-Link
CompoNet®

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

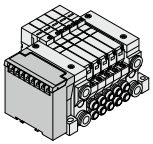
Manifold Solenoid Valves

***EX120* Series**

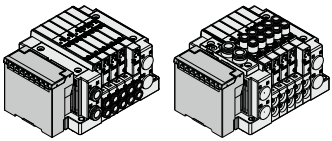
SV1000/2000/3000/4000



VQ1000/2000

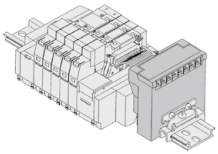


SY3000/5000/7000



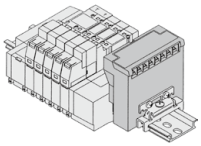
***EX121* Series**

SY3000/5000



***EX122* Series**

SY3000/5000



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Type 1 Output type for solenoid valves

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


EX120


EX121


EX122

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Fieldbus System
For Output
EX120/121/122 Series

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

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

DN1	DeviceNet®*1
DN1-X26*2	DeviceNet®*1
MJ1	CC-Link
CM1	CompoNet® NPN (Positive common)
CM3	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

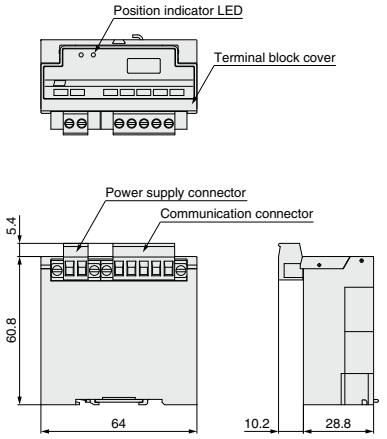
Model		**EX12□-SCM1**	**EX12□-SCM3**
Communication	**Protocol**	CompoNet®	
	Communication speed	93.75 kbps/1.5 M/3 M/4 Mbps	
	Configuration file	EDS file∗1	
	I/O occupation area (Inputs/Outputs)	0/16	
Power supply voltage	**For control**	14 to 26.4 VDC	
	For valve	24 VDC +10%/–5%	
Output	**Output type**	Sink/NPN (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)	
Standards		CE/UKCA 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.∗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.

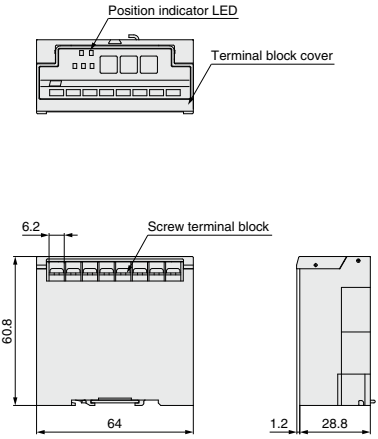
Dimensions/Parts Description

EX120

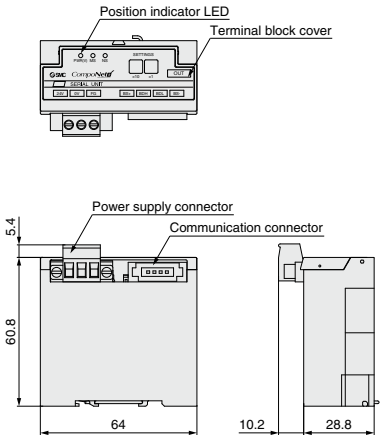
EX120-SDN1(-X26)



EX120-SMJ1



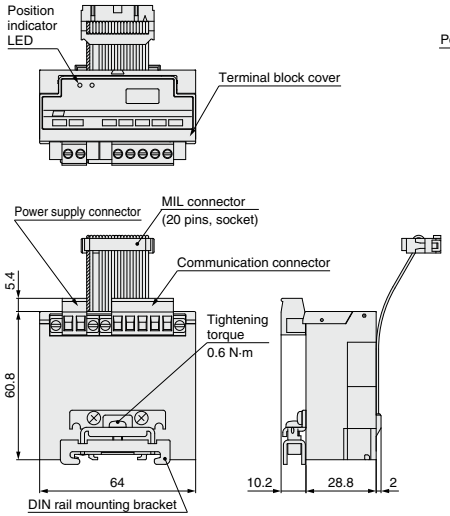
EX120-SCM□



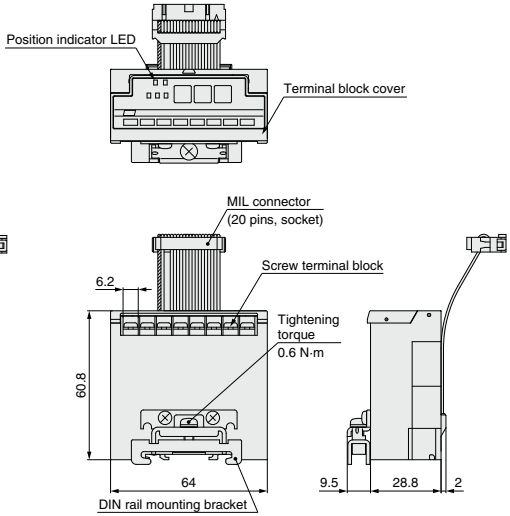
Dimensions/Parts Description

EX121

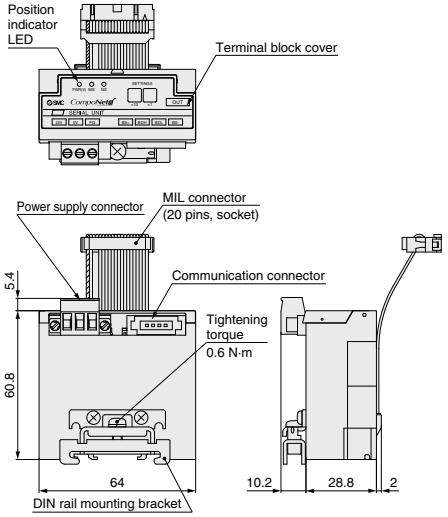
EX121-SDN1(-X26)



EX121-SMJ1



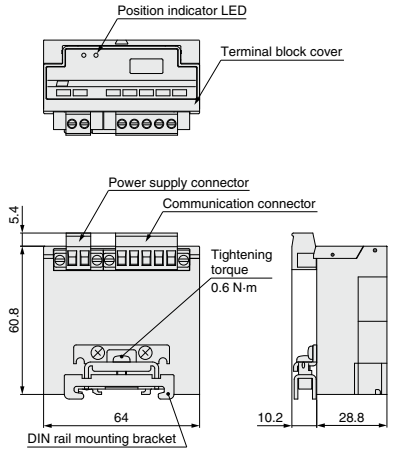
EX121-SCM□



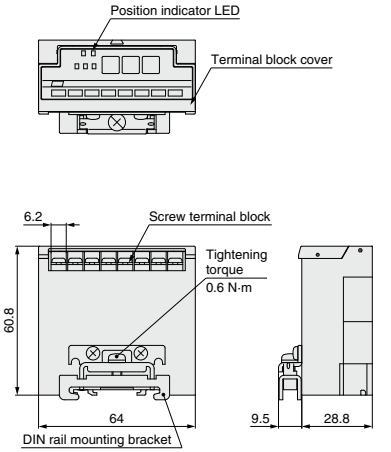
Dimensions/Parts Description

EX122

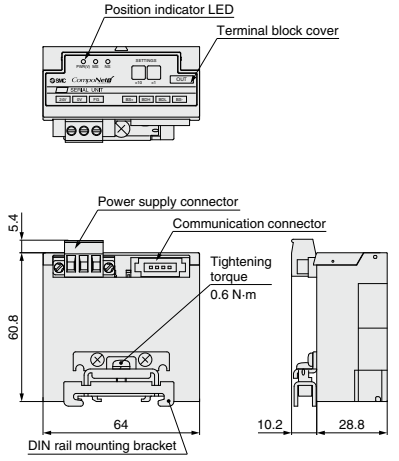
EX122-SDN1(-X26)



EX122-SMJ1

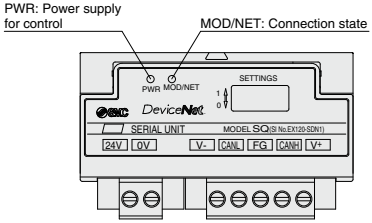


EX122-SCM□

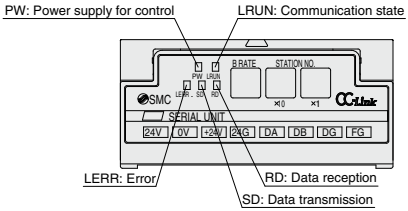


LED Indicator

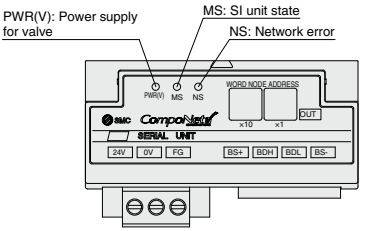
EX12□-SDN1



EX12□-SMJ1



EX12□-SCM□

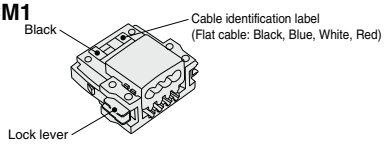


Accessories (For EX12□-SCM□)

❶ Communication Connector

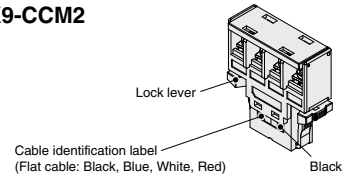
Press-in connector for flat cables
Use this connector for the standard dedicated flat cable.
The communication connector does not come with this product.

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.

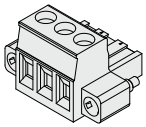
EX9-CCM2



❷ Power Supply Connector

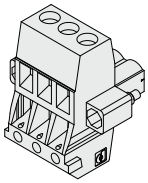
Straight type power supply connector
This connector is supplied at the time of shipment.

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 0 -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 0 -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.

Type 1 Output type for solenoid valves

Fieldbus System (For Output)

EX124/126 Series

Compatible Protocols

DeviceNet™ CC-Link

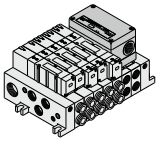
Made to Order CompoNet™

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

Manifold Solenoid Valves

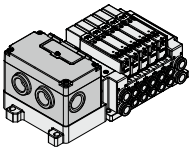
EX124 Series

VQ2000/4000/5000

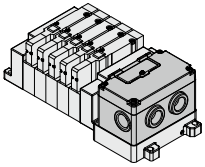


EX126 Series

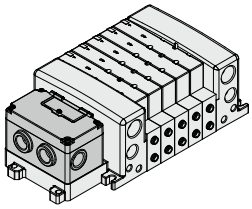
SY3000/5000/7000



SV1000/2000/3000



VQC1000/2000/4000/5000



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Type 1 Output type for solenoid valves

Fieldbus System (For Output)
EX124/126 Series

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② DeviceNet® PNP (Negative common), Occupied points: 0 inputs/16 outputs ····· p. 1300
③ CompoNet® ····· p. 1300
④ Signal Cut Block ····· p. 1300

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Fieldbus System
For Output
EX124/126 Series

How to Order SI Unit

EX124 [U] – S [DN1] – [ ]

Unit specifications

4	Separate power supply of control 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

Protocol

DN1	DeviceNet®*1
DN1-X26	DeviceNet®*1
MJ1	CC-Link

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

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

EX126 D – S MJ1

Unit specifications

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

Mounting specifications

D	Mount a unit to the D side of the manifold

Protocol

MJ1	CC-Link

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)

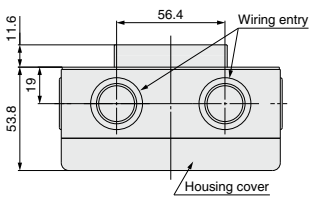
Model			**EX124□-SDN1**	**EX124□-SDN1-X26**＊3
Communication	Applicable system	**Protocol**	DeviceNet®	DeviceNet®
		Version＊1	Release 2.0	
	Communication speed		125 k/250 k/500 kbps	
	Configuration file＊2		EDS file	
	I/O occupation area (Inputs/Outputs)		16/16	0/16
Power supply voltage	**For control**		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	

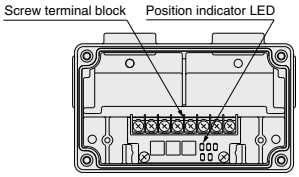
Model			**EX124□-SMJ1**	**EX126D-SMJ1**
Communication	Applicable system	**Protocol**	CC-Link	
		Version＊1	Ver. 1.10	
	Communication speed		156 k/625 kbps 2.5 M/5 M/10 Mbps	
	Configuration file＊2		CSP+ file	
	I/O occupation area (Inputs/Outputs)		32/32 (1 station, remote I/O stations)	
Power supply voltage	**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

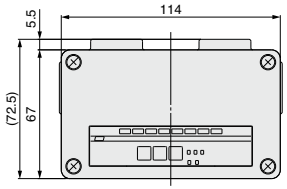
Dimensions/Parts Description

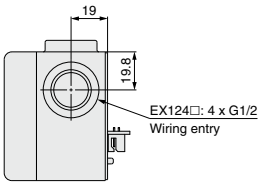
EX124□-S□□□

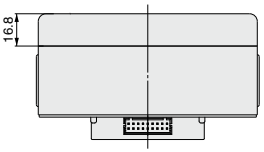




Housing cover diagram

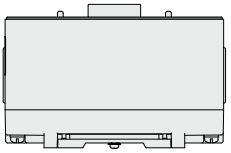


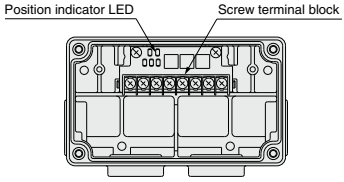




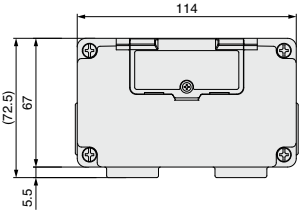
∗ The housing cover of the EX124U/D-SMJ1 is the same as that of the EX126D-SMJ1.

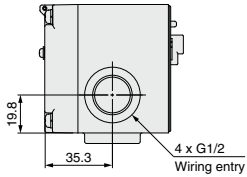
EX126D-SMJ1

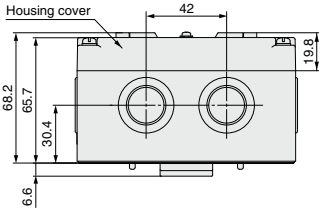


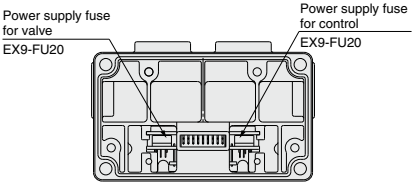


Housing cover diagram





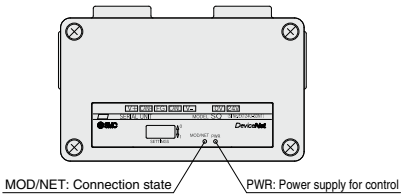




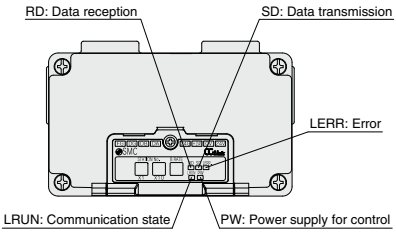
Housing bottom diagram

LED Indicator

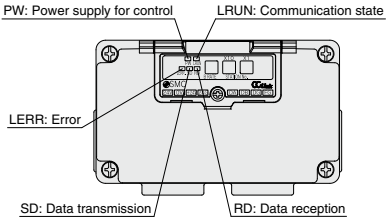
EX124□-SDN1



EX124□-SMJ1



EX126D-SMJ1



Accessories

❶ Replacement Fuse

A replacement fuse for the EX126D-SMJ1

EX9-FU20

Applicable model	EX126D-SMJ1
Rated current	2.0 A

Fuse

❷ 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

Made to Order

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

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

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

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

③ CompoNet®

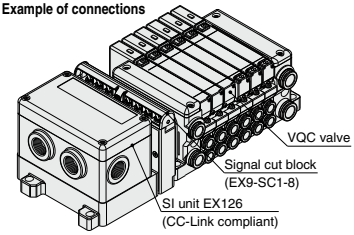
- Please contact SMC for details.

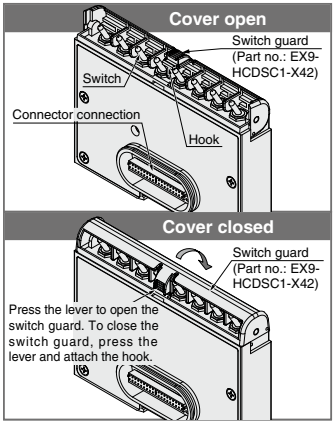
④ Signal cut block

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.

Type 1 Output type for solenoid valves

Fieldbus System (For Output)

EX140 Series

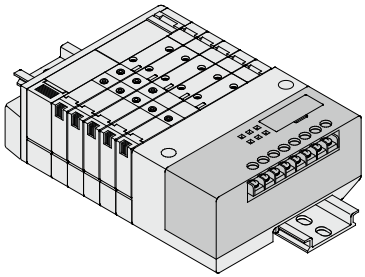
Compatible Protocols

DeviceNet™ CC-Link

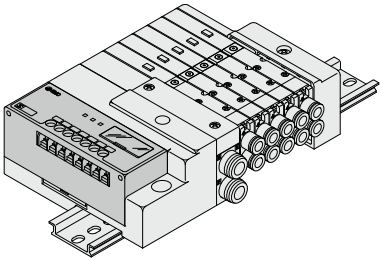
★**Thinner unit with low height**
★**Maximum 16 outputs**

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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Specifications ····· p. 1302
Dimensions/Parts Description ····· p. 1303
LED Indicator ····· p. 1304

Specific Product Precautions ····· p. 1304

Fieldbus System For Output
EX140 Series

How to Order SI Unit

EX140 – S DN1

Protocol

DN1	DeviceNet®
MJ1	CC-Link

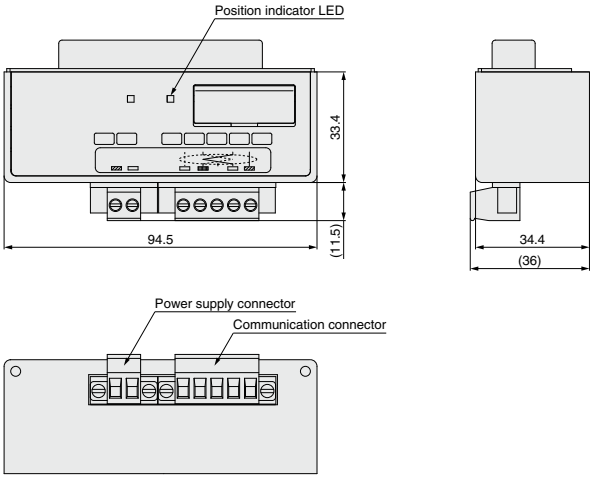
Specifications

Model			EX140-SDN1	EX140-SMJ1
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)		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.	—

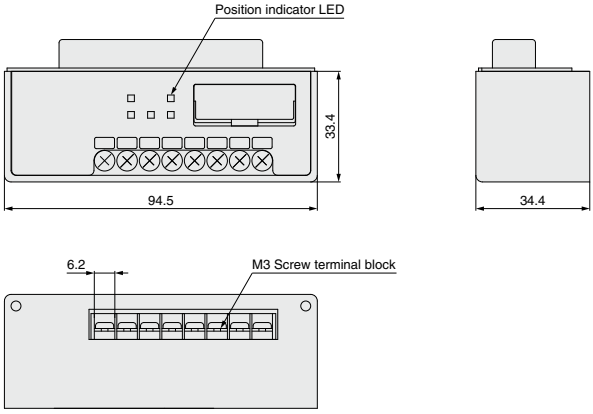
*1 Please note that the version is subject to change.
*2 The setting file can be downloaded from SMC website, https://www.smcworld.com
* For detailed specifications other than the above, refer to the operation manual that can be downloaded from SMC website, https://www.smcworld.com

Dimensions/Parts Description

EX140-SDN1

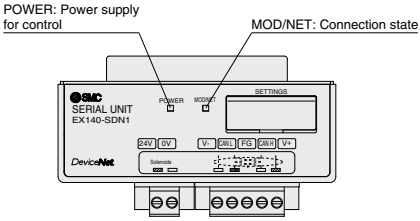


EX140-SMJ1

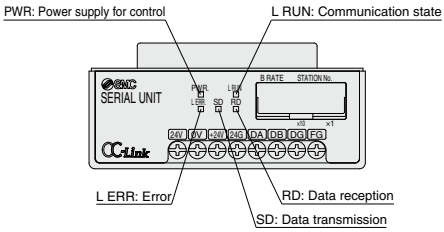


LED Indicator

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.

Type 1 Output type for solenoid valves

Fieldbus System (For Output)

EX180 Series

Compatible Protocols

DeviceNet™ CC-Link

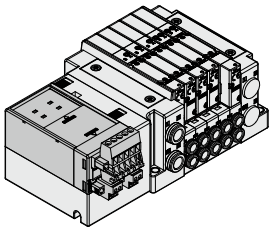
Made to Order **AnyWireASLINK**

CE UKCA cULus * Excludes the S0700. RoHS

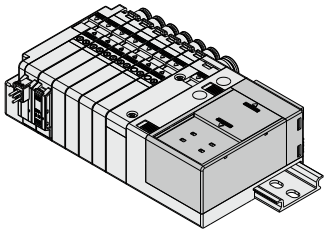
★**Thinner unit with low height**
★**Maximum 32 outputs**

Manifold Solenoid Valves

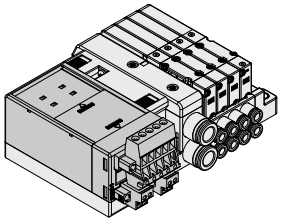
SY3000/5000/7000



SJ2000/3000



S0700



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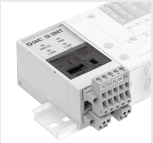
Type 1 Output type for solenoid valves

Fieldbus System (For Output)
EX180 Series



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Specifications ····· p. 1306
Dimensions/Parts Description ····· p. 1307
LED Indicator ····· p. 1308

Accessories
❶ Communication Connector ····· p. 1308
❷ Power Supply Connector ····· p. 1308

Made to Order
① AnyWireASLINK NPN (Positive common), 32 outputs ····· p. 1309

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Fieldbus System For Output
EX180 Series

∗ Excludes the S0700.

How to Order SI Unit

EX180 – S DN3 □ – □

Protocol

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

Made to Order (Refer to page 1309.)

Protocol
AnyWireASLINK

Communication connector type

Nil	T-branch type
A	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)			
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

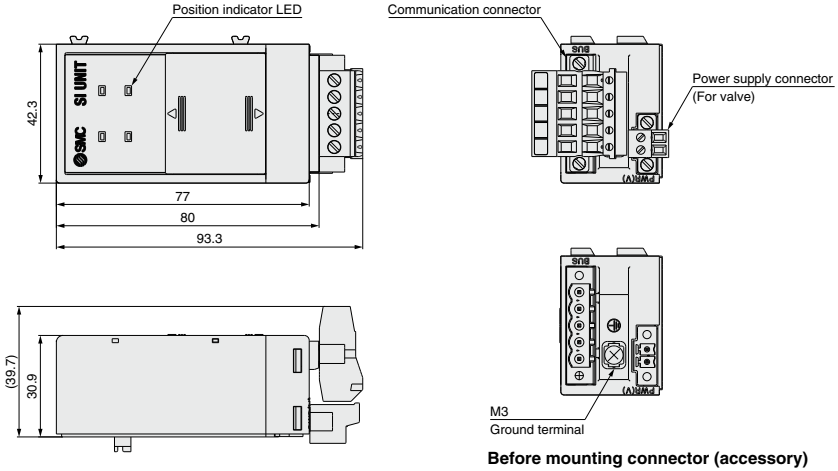
∗ For detailed specifications other than the above, refer to the operation manual that can be downloaded from SMC website, https://www.smcworld.com

∗ The EX180-SDN1□/2□ cannot be mounted on the manifold for the EX180-SDN3□/4□/5□/6□. Additionally, the EX180-SDN3□/4□/5□/6□ cannot be mounted on the manifold for the EX180-SDN1□/2□.

∗ The EX180-SMJ1□ cannot be mounted on the manifold for the EX180-SMJ3□/5□. Additionally, the EX180-SMJ3□/5□ cannot be mounted on the manifold for the EX180-SMJ1□.

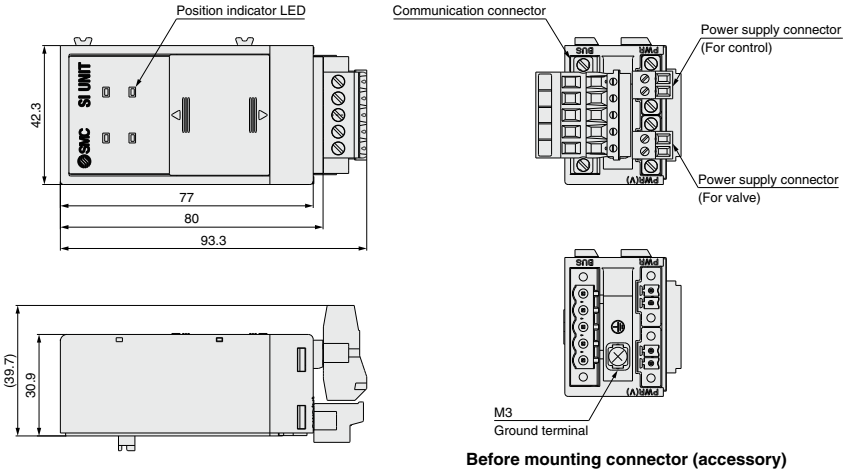
Dimensions/Parts Description

EX180-SDN□



Before mounting connector (accessory)

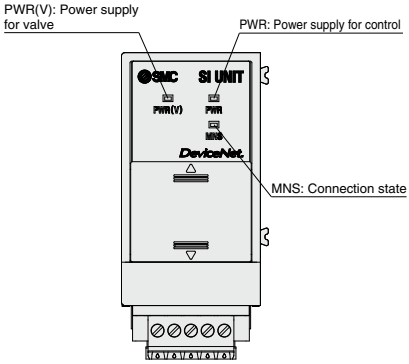
EX180-SMJ□



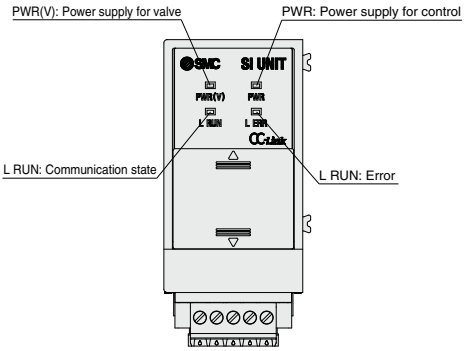
Before mounting connector (accessory)

LED Indicator

EX180-SDN□



EX180-SMJ□



Accessories

❶ Communication Connector

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

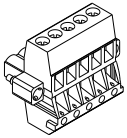
EX180-C DN 1

Communication protocol

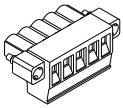
DN	For EX180-SDN□
MJ	For EX180-SMJ□

Communication connector type

1	T-branch type
2	Straight type



EX180-C□□1



EX180-C□□2

❷ Power Supply Connector

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

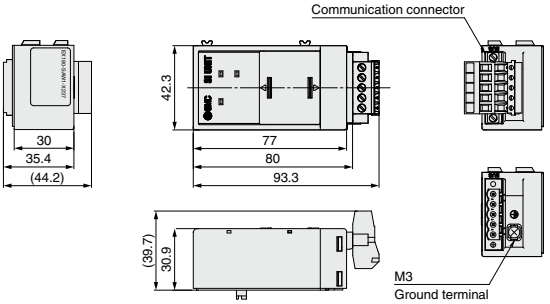
EX180-CP1

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



Before mounting connector (accessory)

⚠ 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.