Fieldbus System (For Output)

EX120/121/122 Series

Compatible Protocols

Device Net CC-Link CompoBus/S

NKE Corp.: Fieldbus H System CompoNet

Made to Order S-Link V

The NKE Corp. Fieldbus H System is to be discontinued as of February 2021. Please consider switching to a different network.

((

 Some protocols are not CE-compliant. Refer to How to Order

How to Order.

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

CONTENTS

Type 1	Output type for solenoid valves
Iypc I	output type for soleliola valves

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







How to Order SI Unit ·····p	. 173
Specifications ······p	. 174
Dimensions/Parts Description ······p	. 175
LED Indicator ······p	. 178

Accessories

① Communication Connector ·····p.	179
2 Power Supply Connector ·····p.	179

Made to Order

1) D	eviceNet [™] PNP (Negative common) output,
0	ccupied points: 16 inputs/16 outputsp. 179
2 D	eviceNet [™] PNP (Negative common) output,
0	ccupied points: 0 inputs/16 outputsp. 179
3 S-	LINK V compatible NPN (Positive common) 16 outputs
	p. 179

Specific Product Precautionsp. 179

EX245

EX123/124/126

EX500

120/121/122

EX140

EX180

EX510

M8/M12

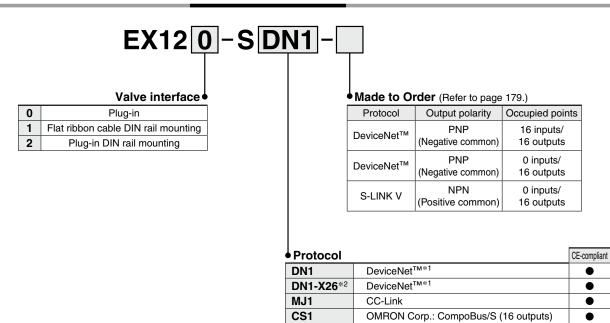
Fieldbus System For Output

EX120/121/122 Series

not CE-compliant.

How to Order SI Unit

The NKE Corp. Fieldbus H System is to be discontinued as of February 2021. Please consider switching to a different network.



CS₂

UH1

CM₁

СМЗ

CompoNet™ PNP (Negative common) *1 DN1's occupied points are 16 inputs and 16 outputs, while DN1-X26 has 0 inputs and 16 outputs.

CompoNet™ NPN (Positive common)

NKE Corp.: Fieldbus H System

OMRON Corp.: CompoBus/S (8 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
	Enclosure	IP20
Facilitation	Operating temperature range	0 to 55°C (Valve 8 points ON) 0 to 50°C (Valve 16 points ON)
Environment	Operating humidity range	35 to 85%RH (No condensation)
	Withstand voltage	1500 VAC for 1 minute between whole external terminal and enclosure
	Insulation resistance	$2\ M\Omega$ or more (500 VDC) between whole external terminal and enclosure

Model		EX12□-SDN1	EX12□-SDN1-X26	EX12⊡-SMJ1	EX12□-SCS1 EX12□-SCS2	
	Protocol	DeviceNet™		CC-Link	OMRON Corp.: CompoBus/S	
	Version*1	Relea	se 2.0	Ver. 1.10	_	
Communication	Communication speed	125 k/250	125 k/250 k/500 kbps		750 kbps	
	Configuration file*2	EDS	S file	CSP+ 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	
Power supply	For control	11 to 25 VDC		15 to 30 VDC	14 to 26.4 VDC	
voltage	For valve		24 VDC -	+10%/–5%		
	Output type		Sink/NPN (Positive common)			
Outman	Number of outputs	16 points			SCS1: 16 points SCS2: 8 points	
Output	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)
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. —				

st 1 Please note that the version is subject to change.

^{*2} The setting file can be downloaded from the SMC website, http://www.smcworld.com

Model		EX12□-SUH1	EX12□-SCM1	EX12□-SCM3
	Protocol	NKE Corp.: Fieldbus H System	CompoNet™	
Communication	Communication speed	29.4 kbps	93.75 kbps/1.5 M/3 M/4 Mbps	
Communication	Configuration file	_	EDS	file*1
	I/O occupation area (Inputs/Outputs)	0/16		
Power supply	For control	24 VDC ±10%	14 to 26.4 VDC	
voltage For valve		(Common power supply)	ipply) 24 VDC +10%/-5%	
	Output type	Sink/NPN (Positive common)	Sink/NPN (Positive common)	Source/PNP (Negative common)
0	Number of outputs	16 points		
Output	Load	Solenoid valve with surge voltage suppressor 24 VDC, 2.1 W or less (SMC)		
	Fail safe	CLEAR HOLD/CLEAR (Setting via network)		etting via network)
Standards		_	CE marking	
		EX120: 110 g or less	EX120: 100 g or less	
Weight		EX121: 140 g or less	EX121: 120 g or less	
		EX122: 130 g or less	EX122: 110 g or less (including accessory)	
Accessory		_	Power supply connector (EX9-CP2) 1 pc.*2	

 $^{*1 \ \ \}text{The setting file can be downloaded from the SMC website, http://www.smcworld.com}$

24/126 EX2

1ype 2 EX500

EX600

EX245

EX120/121/122

EX14

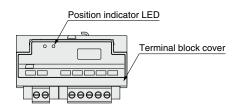


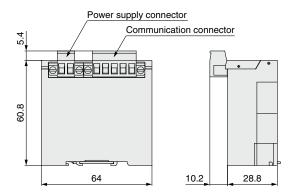
st2 Communication connector (for the opposite side) is not provided.

EX120/121/122 Series

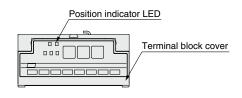
Dimensions/Parts Description

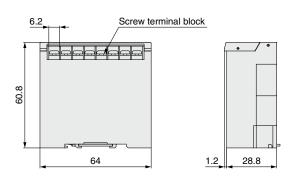
EX120 EX120-SDN1(-X26)



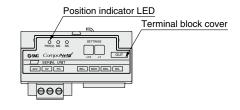


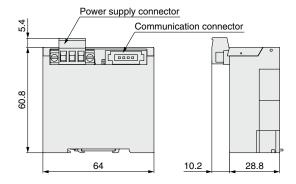
EX120-SMJ1, SCS□, SUH1





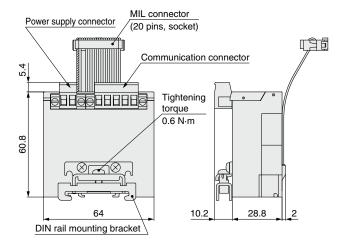
EX120-SCM□

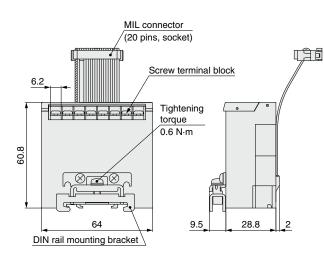




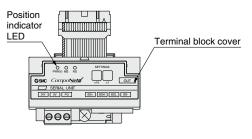
Dimensions/Parts Description

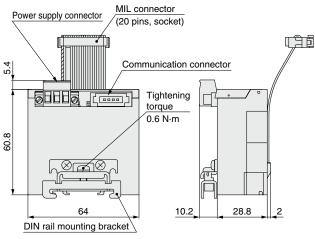
EX121-SDN1(-X26) EX121-SMJ1, SCS, SUH1 Position indicator LED Position indicator LED Terminal block cover





EX121-SCM□





EX260

X245 EX600

EX120/121/122 EX250

EX140

EX510 EX180

M8/M12

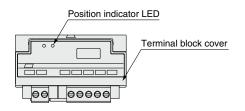
ATEX

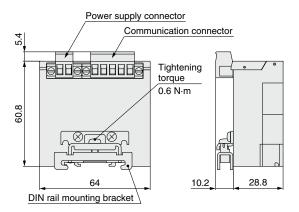
176

EX120/121/122 Series

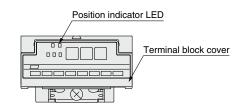
Dimensions/Parts Description

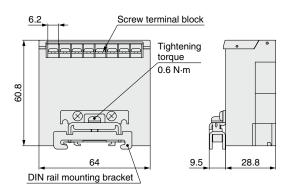
EX122 EX122-SDN1(-X26)



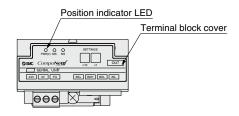


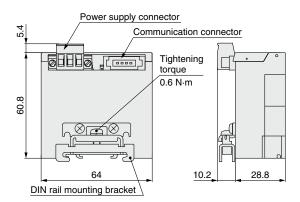
EX122-SMJ1, SCS□, SUH1





EX122-SCM□

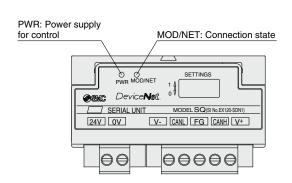


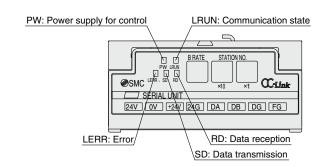


LED Indicator

EX12□-SDN1

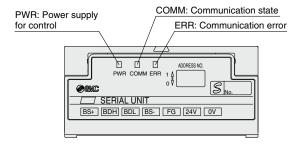
EX12□-SMJ1

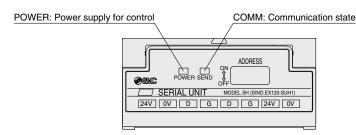




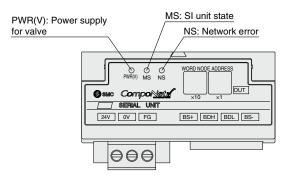
EX12□-SCS□

EX12□-SUH1





EX12□-SCM□



SMC

14/126 EX260

(500 EX123/124/126

EX600

EX245

EX250

EX140 EX120/121/122

EX180

Type 2 EX510

M8/M12

ATEX

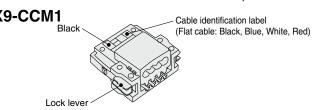
178

EX120/121/122 Series

Accessories (For EX12□-SCM□)

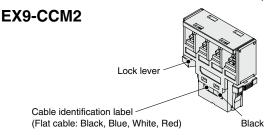
Communication Connector

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



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

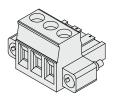
The communication connector does not come with this product.



Power Supply Connector

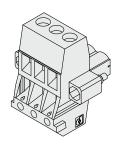
Straight type power supply connector This connector is supplied at the time of shipment.

EX9-CP2



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

EX9-CP3

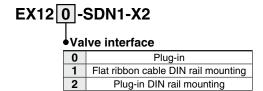


Made to Order

Please contact SMC for detailed specifications and lead times.

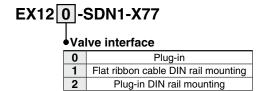
Prepare the SI unit and manifold valve (without SI unit) separately, and combine them before use.

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



 \bullet Dimensions are the same as those of the standard type.

② DeviceNet[™] PNP (Negative common) output, Occupied points: 0 inputs/16 outputs



Dimensions are the same as those of the standard type.

3 S-LINK V compatible NPN (Positive common) 16 outputs

EX120-SSL1-X99

• Dimensions are the same as those of the CC-Link (EX120-SMJ1).

▲ Specific Product Precautions

Be sure to read this before handling the products. Refer to page 277 for safety instructions. For fieldbus system
 precautions, refer to pages 278 to 280 and the "Operation Manual" on the SMC website: http://www.smcworld.com

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

DeviceNet[™] is a trademark of ODVA. CompoNet[™] is a trademark of ODVA.



Fieldbus System (For Output)

EX123/124/126 Series

Compatible Protocols

Device Net CC-Link CompoBus/S NKE Corp.: Fieldbus H System

Made to Order CompoNet

((

 Only the EX124 and EX126 series are CE-compliant.

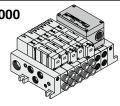
- **★**Enclosure IP65 (EX123, EX124), IP67 (EX126)
- **★**Maximum 16 outputs

The NKE Corp. Fieldbus H System is to be discontinued as of February 2021. Please consider switching to a different network.

Manifold Solenoid Valves

EX123 Series

VQ2000/4000/5000



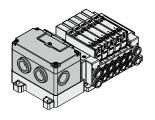
EX124 Series

VQ2000/4000/5000

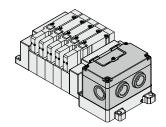


EX126 Series

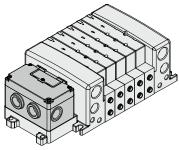
SY3000/5000/7000



SV1000/2000/3000



VQC1000/2000/4000/5000



CONTENTS

Type 1 Output type for solenoid valves

Fieldbus System (For Output) **EX123/124/126** Series







How to Order SI Unit ·····	····- p. 49
Specifications ·····	····· p. 50
Dimensions/Parts Description ·····	····· p. 51
LED Indicator ······	····· p. 52

Accessories

Replacement Fusep. 52	<u>,</u>
2 Drip Proof Plug Assemblyp. 52)

Made to Order

① DeviceNet™ PNP (Negative common),
Occupied points: 16 inputs/16 outputs ····· p. 53
② DeviceNet™ PNP (Negative common),
Occupied points: 0 inputs/16 outputs ·····p. 53
③ CompoNet™p. 53
④ Signal Cut Block ·····p. 53

Specific Product Precautionsp. 53

EX26

EX123/124/126

EX200

EX6(

EX24

EX250

EX120/121/122

EX140

EX180

EX510

M8/M12

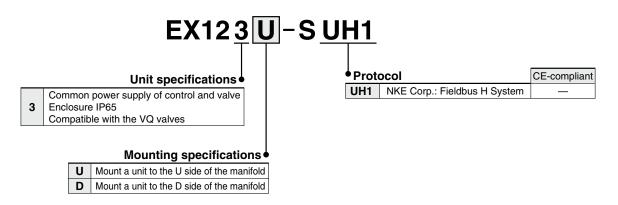
Fieldbus System For Output

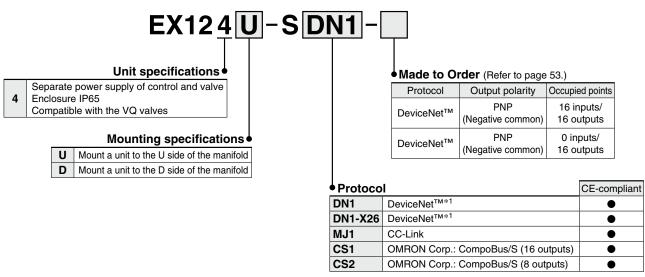
EX123/124/126 Series

Only the EX124 and EX126 series

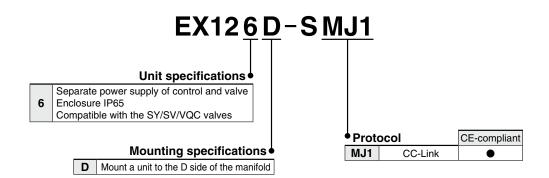
How to Order SI Unit

The NKE Corp. Fieldbus H System is to be discontinued as of February 2021. Please consider switching to a different network.





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





Specifications

Common Specifications

	оросиновичено		_
Communication Terminating resistor		Not provided	
Internal current consumption (Unit)		100 mA or less	
Output type		Sink/NPN (Positive common)	
Output	Load	Solenoid valve with surge voltage suppressor 24 VDC, 2.1 W or less (SMC)	
	Operating temperature	0 to 55°C (Valve 8 points ON)	
Fusinammantal	range	0 to 50°C (Valve 16 points ON)	
Environmental resistance	Operating humidity range	35 to 85%RH (No condensation)	
resistance	Withstand voltage	1500 VAC for 1 minute between whole external terminal and enclosure	
	Insulation resistance	$2 \text{ M}\Omega$ or more (500 VDC) between whole external terminal and enclosure	
Weight		240 g or less	
Accessory		4 unit mounting screws (M4 x 10)	
	•		

Model			EX123□-SUH1	EX124□-SDN1	EX124□-SDN1-X26* ³
	Applicable	Protocol	NKE Corp.: Fieldbus H System	DeviceNet™	DeviceNet™
	system Version*1		-	Relea	se 2.0
Communication	Communi	cation speed	29.4 kbps	125 k/250	k/500 kbps
	Configura	ation file*2		EDS	S file
	I/O occupation area (Inputs/Outputs)		0/16	16/16	0/16
Power supply	For contr	ol	24 VDC ±10%	11 to 25 VDC	
voltage	For valve		(Common power supply)	24 VDC +	-10%/–5%
Output Number of outputs		of outputs		16 points	
	Fail safe		CLEAR HOLD/CLEAR (Switch		HOLD/CLEAR (Switch setting)
Environment Enclosure		9		IP65	
Standards				CE m	arking

Model			EX124□-SMJ1	EX124□-SCS1 EX124□-SCS2	EX126D-SMJ1		
Communication	Applicable	Protocol	CC-Link	OMRON Corp.: CompoBus/S	CC-Link		
	system	Version*1	Ver. 1.10	_	Ver. 1.10		
	Communication speed		156 k/625 kbps 2.5 M/5 M/10 Mbps	750 kbps	156 k/625 kbps 2.5 M/5 M/10 Mbps		
	Configuration file*2		CSP+ file	_	CSP+ file		
	I/O occupation area (Inputs/Outputs)		32/32 (1 station, remote I/O stations)	SCS1: 0/16 SCS2: 0/8	32/32 (1 station, remote I/O stations)		
Power supply	supply For control		15 to 30 VDC	14 to 26.4 VDC	15 to 30 VDC		
voltage	For valve 24 VDC +10%/-5%						
Output	Number of outputs		16 points	SCS1: 16 points SCS2: 8 points	16 points		
-	Fail safe		CLEAR	HOLD/CLEAR (Switch setting)	CLEAR		
Environment	Enclosure	Э	IP65		IP67		
Standards				CE marking	CE marking		

^{*1} Please note that the version is subject to change.

SMC

126 EX26

EX500

EX600

EX245

EX250

EX120/121/

EX14(

EX510 EX

18/M12

ATEX

50

^{*2} The setting file can be downloaded from the SMC website, http://www.smcworld.com

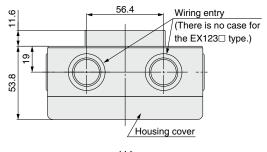
^{*3} Since this is a special product, a manifold part number is not specified. Please consult SMC for the manifold integrated type.

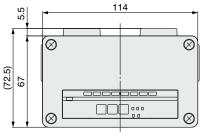
^{*} For detailed specifications other than the above, refer to the operation manual that can be downloaded from SMC website, http://www.smcworld.com

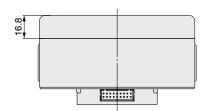
EX123/124/126 Series

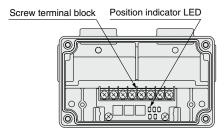
Dimensions/Parts Description

EX123□-S□□□, EX124□-S□□□

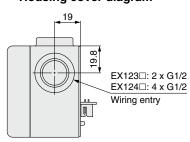






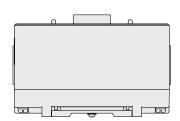


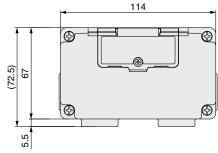
Housing cover diagram

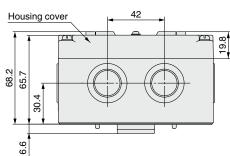


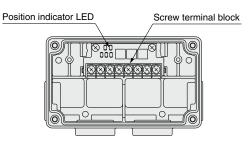
* The housing cover of the EX124U/D-SMJ1 is the same as that of the EX126D-SMJ1.

EX126D-SMJ1

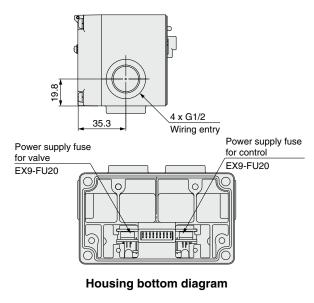








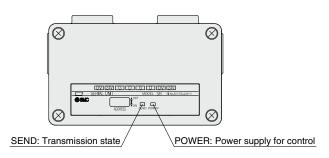
Housing cover diagram



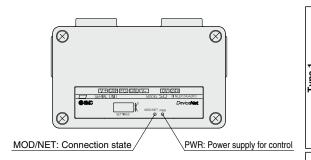


LED Indicator

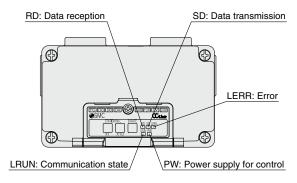
EX123□-SUH1



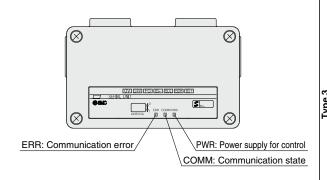
EX124□-SDN1



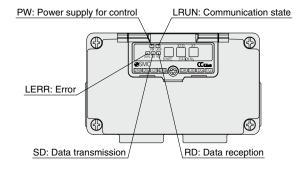
EX124□-SMJ1



EX124□-SCS□



EX126D-SMJ1



LX 120D-31110

Accessories

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

EX510 | EX180

EX123/124/126

EX600

EX250

EX120/121/122

EX140

M8/M12

EX123/124/126 Series

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.



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

EX124 U -SDN1-X2

Mounting specifications

- Wount a unit to the U side of the manifoldMount 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 manifoldD Mount a unit to the D side of the manifold
- Dimensions are the same as those of the standard type.

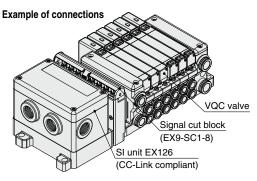
③ CompoNet™

• 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



Cover open Switch guard (Part no.: EX9-HCDSC1-X42) Connector connection Hook Cover closed Switch guard (Part no.: EX9-HCDSC1-X42) Press the lever to open the switch guard. To close the switch guard, press the lever and attach the hook.

Be sure to read this before handling the products. Refer to page 277 for safety instructions. For fieldbus system precautions, refer to pages 278 to 280 and the "Operation Manual" on the SMC website: http://www.smcworld.com

■ Trademark

DeviceNet[™] is a trademark of ODVA. CompoNet[™] is a trademark of ODVA.

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.



Fieldbus System (For Output)

EX140 Series

Compatible Protocols

DeviceNet CC-Link CompoBus/S

NKE Corp.: Fieldbus H System

The NKE Corp. Fieldbus H System is to be discontinued as of February 2021. Please consider switching to a different network.

((

EX123/124/126

EX120/121/122

EX510

 Some protocols are not CE-compliant. Refer to How to Order.

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

SZ3000 SQ1000/2000

CONTENTS

Type 1 Output type for solenoid valves

Fieldbus System (For Output)

EX140 Series



How to Order SI Unit ·····p. 18	1
Specifications ·····p. 18	1
Dimensions/Parts Description · · · · p. 18	2
LED Indicatorp. 18	3
Specific Product Precautionsp. 18	3

Fieldbus System For Output EX140 Series

* Some protocols are not CE-compliant.

How to Order SI Unit

The NKE Corp. Fieldbus H System is to be discontinued as of February 2021. Please consider switching to a different network.

EX140-S DN1

Protocol		
DN1	DeviceNet™	•
MJ1	CC-Link	•
CS1	OMRON Corp.: CompoBus/S (16 outputs)	•
CS2	OMRON Corp.: CompoBus/S (8 outputs)	•
UH1	NKE Corp.: Fieldbus H System	_

Specifications

Model		EX140-SDN1	EX140-SMJ1	EX140-SCS1 EX140-SCS2	EX140-SUH1		
ion	Applicable system	Protocol	DeviceNet™	CC-Link	OMRON Corp.: CompoBus/S	NKE Corp.: Fieldbus H System	
		Version*1	Release 2.0	Ver. 1.10	-	_	
Communication	Communication speed		125 k/250 k/500 kbps	156 k/625 kbps 2.5 M/5 M/10 Mbps	750 kbps	29.4 kbps	
E	Configurat	ion file*2	EDS file	CSP+ file	-	_	
Š	I/O occupation area (Inputs/Outputs)		0/16	32/32 (1 station, remote I/O stations)	SCS1: 0/16 SCS2: 0/8	0/16	
	Terminating resistor			Not provided			
Power supply	For control		11 to 25 VDC	15 to 30 VDC	14 to 26.4 VDC	24 VDC ±10%	
voltage	For valve		24 VDC +10%/-5%			(Common power supply)	
Internal co	1	mption (Unit)					
	Output type		Sink/NPN (Positive common)				
Output	Number of outputs		16 outputs SCS1: 16 outputs SCS2: 8 outputs			16 outputs	
Out	Load		Solenoid valve with surge voltage suppressor 24 VDC, 2.1 W or less (SMC)				
	Fail safe		HOLD/CLEAR (Switch setting)			CLEAR	
_	Enclosure		IP20				
Environmental resistance	Operating t	emperature	0 to 55°C (Valve 8 points ON) 0 to 50°C (Valve 16 points ON)				
ron	Operating h	umidity range					
i i i	Withstand	voltage	1500 \	closure			
	Insulation	resistance	2 ${\rm M}\Omega$ or more (500 VDC) between whole external terminal and er			nclosure	
	Standards		CE marking —				
Weight	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.

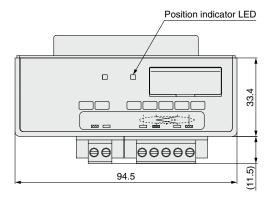
^{*} For detailed specifications other than the above, refer to the operation manual that can be downloaded from SMC website, http://www.smcworld.com

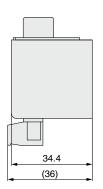


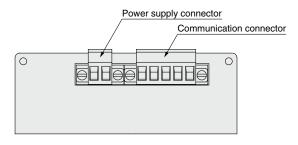
^{*2} The setting file can be downloaded from SMC website, http://www.smcworld.com

Dimensions/Parts Description

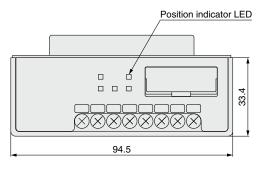
EX140-SDN1

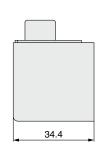


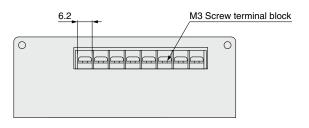




EX140-SMJ1, SCS□, SUH1







EX123/124/126

182

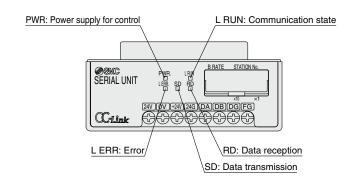
EX140 Series

LED Indicator

EX140-SDN1

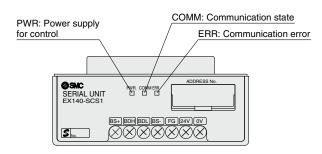
POWER: Power supply for control MOD/NET: Connection state MOD/NET: Connection state MOD/NET: Connection state SERIAL UNIT EX140-SDN1 Power MOD/NET: Connection state Power MOD/NET: Connection state

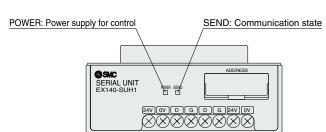
EX140-SMJ1



EX140-SCS□

EX140-SUH1





△ Specific Product Precautions

Be sure to read this before handling the products. Refer to page 277 for safety instructions. For fieldbus system I precautions, refer to pages 278 to 280 and the "Operation Manual" on the SMC website: http://www.smcworld.com

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

DeviceNet™ is a trademark of ODVA.



Fieldbus System (For Output)

EX180 Series

Compatible Protocols

DeviceNet CC-Link

Made to Order Ether CAT AnyWireASLINK

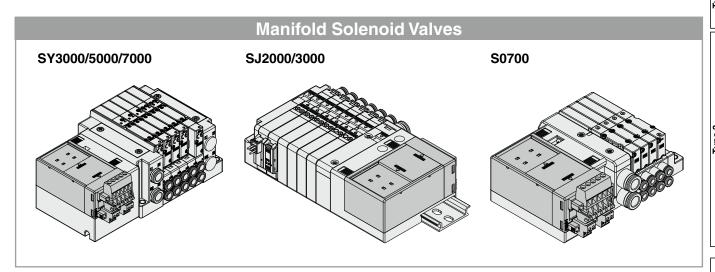
- **★**Thinner unit with low height
- **★**Maximum 32 outputs





EX500

EX510



CONTENTS

Type 1 Output type for solenoid valves

Fieldbus System (For Output) EX180 Series



Dimensions/Parts Description	
Accessories 1 Communication Connector 2 Power Supply Connector	-
Made to Order 1 EtherCAT PNP (Negative common), 32 outputs 2 AnyWireASLINK NPN (Positive common), 32 outputs	·
Specific Product Precautions	···· р. 188

How to Order SI Unit ·····

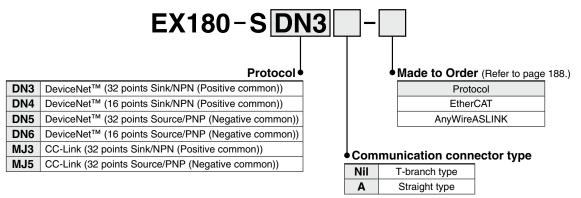
Specifications

Fieldbus System For Output EX180 Series





How to Order SI Unit



Communication and power supply connectors are included.

Specifications

Model			EX180-SDN3 EX180-SDN4	EX180-SDN5 EX180-SDN6	EX180-SMJ3	EX180-SMJ5	
	Applicable	Protocol	DeviceNet™		CC-Link		
	system	Version*1	Release 2.0		Ver. 1.10		
Communication	Communication speed		125 k/250	125 k/250 k/500 kbps 156 k/625 kbps 2.5 M/5 M/10 Mbps			
<u> </u>	Configuration file*2		EDS	S file	CSP+ file		
Comm	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 pro	ovided	Built into the unit (Switch setting, 110 Ω)		
Power supply	supply For control		11 to 2	5 VDC	24 VDC ±10%		
voltage	For valve		24 VDC ±10%/-5%				
Internal current consumption (Unit)			0.1 A or less				
	Output type		Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common) Source/PNP (Negative common)		
5	Number of outputs		SDN3: 32 outputs SDN4: 16 outputs	SDN5: 32 outputs SDN6: 16 outputs	32 outputs		
Output	Load		SY3000/5000/7000, SJ2000/3000, S0700 series manifold valves				
	Fail safe		HOLD/CLEAR (Switch setting)				
E .	Enclosure		IP20				
nce	Operating temperature range		−10 to 50°C				
Environmental resistance	Operating humidity range		35 to 85%RH (No condensation)				
resi	Withstand voltage		500 VAC for 1 minute between whole external terminal and FG				
	Insulation res	istance		10 $\mbox{M}\Omega$ or more (500 VDC) between whole external terminal and FG			
Standards			CE marking (EMC directive/RoHS directive), 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.

^{*} 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□.



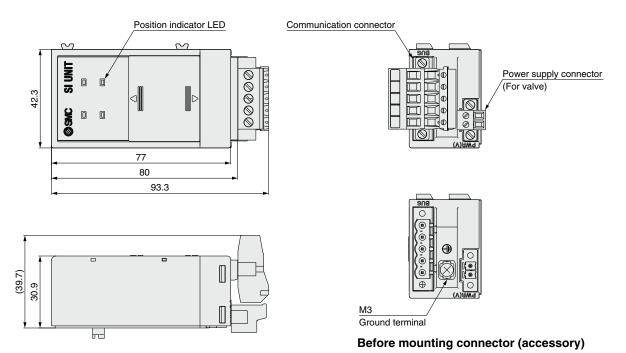
^{*2} The setting file can be downloaded from SMC website, https://www.smcworld.com

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

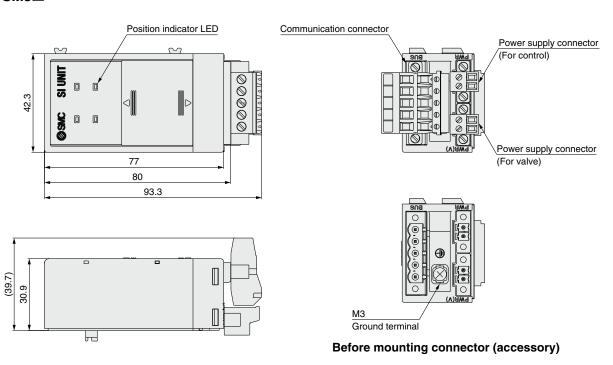
^{*} The EX180-SDN1□/2□ cannot be mounted on the manifold for the EX180-SDN3□/4□/5□/6□. Additionally, the EX180-SDN3□/4□/5□/6□ cannot be mounted on the manifold for the EX180-SDN1□/2□.

Dimensions/Parts Description

EX180-SDN□



EX180-SMJ□



EX123/124/126 EX260

EX500

EX600

EX250 EX2

EX140 EX120/121/122

:X180

EX510

M8/M12

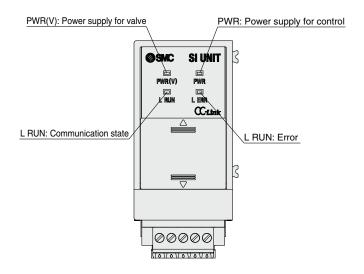
EX180 Series

LED Indicator

PWR(V): Power supply for valve PWR: Power supply for control PWR: Power supply for control MNS: Connection state

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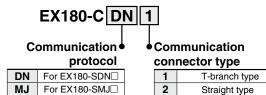
EX180-SMJ□

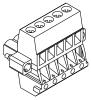


Accessories

1 Communication Connector

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









EX180-C□□2

Power Supply Connector

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

EX180-CP1

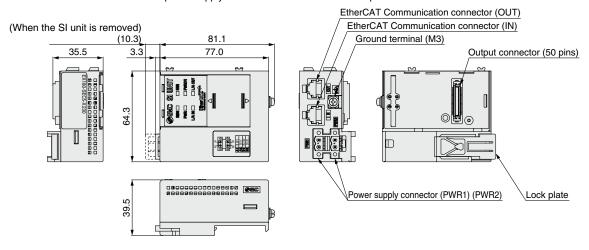


Please contact SMC for detailed specifications and lead times. Prepare the SI unit and manifold valve (without SI unit) separately, and combine them before use.

1) EtherCAT PNP (Negative common), 32 outputs

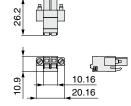
EX180-SEC5-X230

• The communication connector and power supply connector do not come with this product.

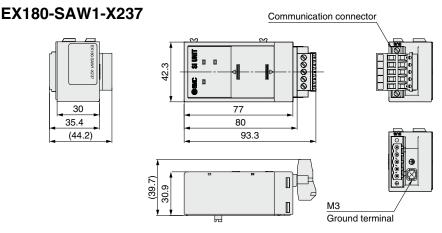


EX9-CP6-X27

- Power supply connector for the EX180-SEC5-X230
- This connector is not supplied at the time of shipment.
- The minimum ordering quantity of this product is one box (50 pcs. included).



2 AnyWireASLINK NPN (Positive common), 32 outputs



Before mounting connector (accessory)

△ Specific Product Precautions

Be sure to read this before handling the products. Refer to page 277 for safety instructions. For fieldbus system I precautions, refer to pages 278 to 280 and the "Operation Manual" on the SMC website: http://www.smcworld.com

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 trademark of ODVA. EtherCAT[®] is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.



EX260

EX123/124/126

EX500

EX600

EX245

X250

EX120/121/122

ıype ı

V100

EX510

M8/M12