SNC. Information

SMC Corporation

Akihabara UDX 15F, 4-14-1, Sotokanda, Chiyoda-ku, Tokyo 101-0021, JAPAN URL http://www.smcworld.com ©2009 SMC Corporation All Rights Reserved

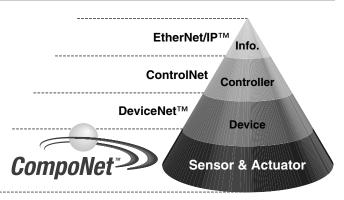
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Fieldbus System Compatible with CompoNet[™] Series EX120/121/122

■ CompoNet[™] is an open network for sensors and actuators to transmit data and messages at high-speed with a CIP ^{Note)} control protocol. Note) CIP: Common Industrial Protocol

■ Use of the same standard protocol as DeviceNet[™] and EtherNet/IP[™] enables transmission of valueadded information of a manufacturing site over network layers.

The CIP for CompoNet[™] shares common specifications as DeviceNet[™] and EtherNet/IP[™], thus enabling application transplants between these CIP networks.

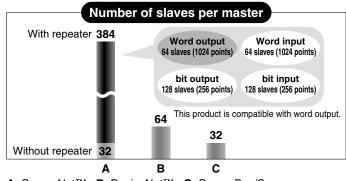




EX120-SCM1 + VQ1000

Multiple points

Compatible with 384 slaves by using a repeater



A: CompoNet[™] B: DeviceNet[™] C: CompoBus/S

2 types of communication cables

Can use a round (VCTF) cable (which is more available and inexpensive) or a dedicated flat ribbon cable (which is made by pressure welding and excels in workability), or both cables.





High-spee

EX121-SCM1 + SY5000

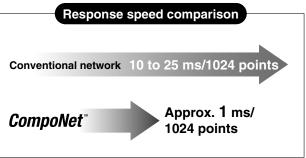
High-speed response

Realized high-speed data transmission of approx. 1 ms with 1024 points.

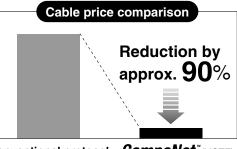
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EX122-SCM1 + SY3000

Networking of devices required for high-speed response has become possible, thus contributing to reduce non-productive auxiliary process time.



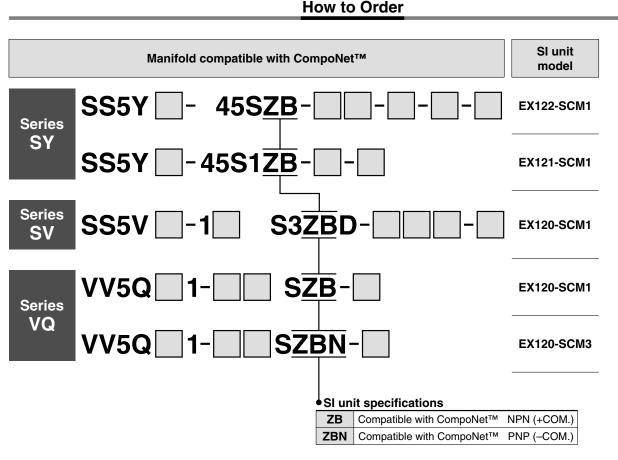
Use of 2 cable types depending on the application will lead to reduction of total cost.



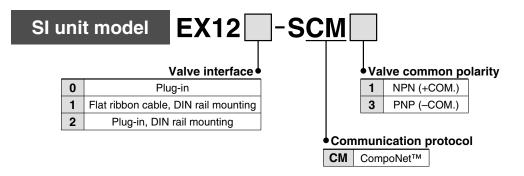
Conventional protocol CompoNet^{**}(VCTF)



Fieldbus System Compatible with CompoNet™ Series EX120/121/122



Note) Refer to corresponding SMC catalogue for more information about manifold.



Accessories

Part No.	Option	Remarks		
EX9-CCM1	Communication connector	For flat ribbon cable: Pressure welding connector		
EX9-CCM2 Communication connector		For round cable: Terminal block type		
EX9-CP2 Power supply connector		Straight type (provided with the product)		



Fieldbus System Compatible with CompoNet™ *Series EX120/121/122*

Communication Specifications

Protocol	CompoNet™		
Transmission speed	93.75 kbps, 1.5 M/3 M/4 Mbps		
Configuration file	EDS file (Please download it from website.)		
I/O occupation area (Inputs/Outputs)	0/16		
Terminator	Not provided		

Note) Please confirm the details on transmission speed and settings by downloading the operation manual from website.

Unit Specifications

	Model	EX120-SCM1	EX121-SCM1	EX122-SCM1	EX120-SCM3	EX121-SCM3	EX122-SCM3	
Power supply	For unit	14 VDC to 26.4 VDC						
voltage	For valve	24 VDC +10%/-5%						
Internal current consumption (Unit)		100 mA or less						
Output specifications	Output type (Valve common polarity)	NPN (+COM.)		PNP (-COM.)				
	Number of outputs	16 outputs						
	Load	Solenoid valve with light/surge voltage suppressor 24 VDC, 2.1 W or less (SMC)						
	Fail safe	HOLD/CLEAR (Setting via network)						
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 dew condensation)						
	Withstand voltage	1500 VAC for 1 minute between external terminals and housing						
	Insulation resistance	500 VDC, 2 M Ω or more between external terminals and housing						
	Vibration resistance	10 to 55 Hz with ampiltude of 0.5 mm for 2 hours in each X, Y, Z direction (During de-energizin					g de-energizing)	
	Impact resistance	98 m/s ² 3 times in each direction of X, Y, Z direction (During de-energizing)						
Standard		CE marking						
Accessory		Power supply connector (EX9-CP2), 1 pc. Note)						

Note) Communication connector (on the customer side) is not provided.

Applicable Solenoid Valve Series

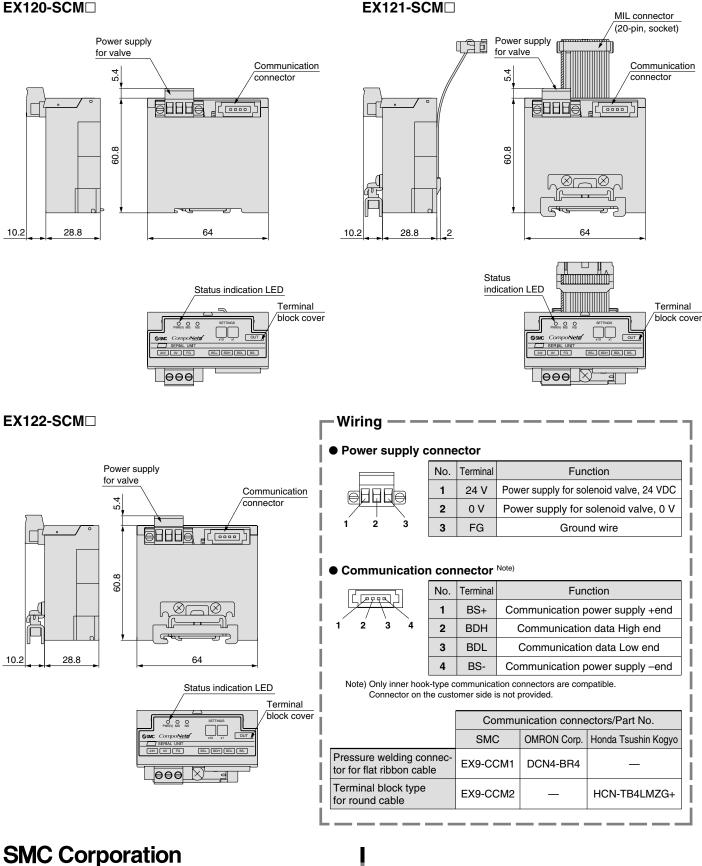
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SV		1000	•	_	—
		2000	•	_	—
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VQ		1000	•	_	_
	- Charles and the loss	2000	•	_	_



Series EX120/121/122

SI Unit Dimensions





SMC CORPORATION

Akihabara UDX 15F, 4-14-1, Sotokanda, Chiyoda-ku, Tokyo 101-0021, JAPAN Phone: 03-5207-8249 FAX: 03-5298-5362 SMC CORPORATION All Rights Reserved

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European Marketing Centre (EMC) Zuazobidea 14, 01015 Vitoria Tel: +34 945-184 100 Fax: +34 945-184 124 URL http://www.smc.eu