

! Contact our sales office for delivery dates and prices as this is a special model.

Specialized Product **P.G.** Point to Group information

# CC-Link IE Field Compatible Fieldbus System EX250-SCF1-X200

Features

Supports the **CC-Link IE Field**<sup>\*1</sup> communication protocol

\*1 CC-Link IE Field: Industrial Ethernet network that supports a communication speed of 1 Gbps

- Number of inputs and outputs: 32 inputs/32 outputs
- Enclosure: IP65
- Communication connector: M12 connector (X-Coding) 2 pcs.

Various sensors can be connected using the input block.

Input block



Input device

Solid state auto switch with pre-wired connector



Pressure switch



Flow switch



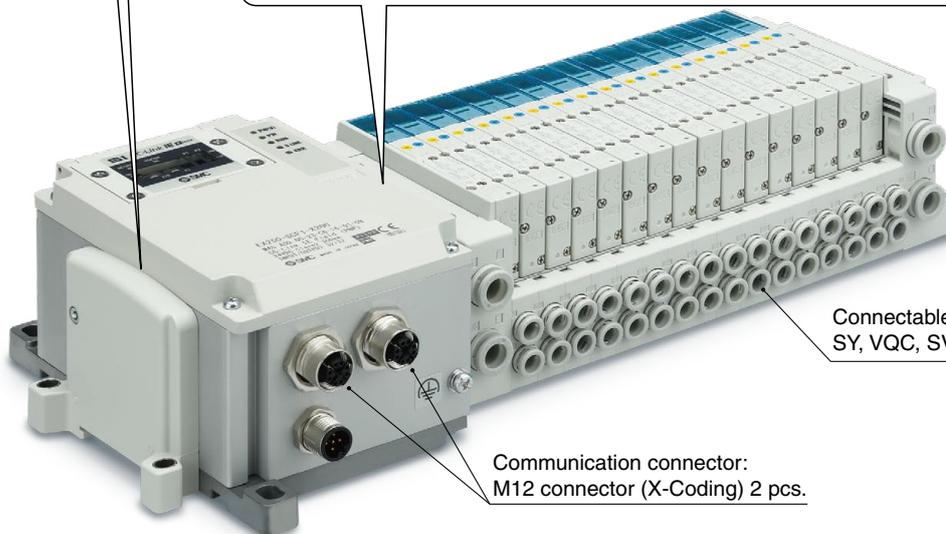
Separately mounted solenoid valves can be connected using the output block.

Output block



Output device

Solenoid valve



Connectable solenoid valves:  
SY, VQC, SV, S0700

Communication connector:  
M12 connector (X-Coding) 2 pcs.



**Caution**

To ensure the safest possible operation of this product, please be sure to thoroughly read the "Safety Instructions" in our "Best Pneumatics" catalog before use.

SMC Corporation 4-14-1, SOTO-KANDA, CHIYODA-KU, TOKYO 101-0021, JAPAN URL: <http://www.smcworld.com>

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SP175X-004E  
P: VU

## Specifications

Item	Specifications	
Protocol	CC-Link IE Field	
Station type	Remote device station	
Communication speed	1 Gbps	
Allowable station number setting	1 to 120	
Allowable network number setting	1 to 239	
Configuration file	CSP+	
Power supply voltage	For control unit and input block	19.2 to 28.8 VDC (24 VDC ±20%)
	For solenoid valve	22.8 to 26.4 VDC (24 VDC +10%/−5%)
Input	Number of inputs	32 inputs
	Connection block	Input block *1
	Supply current for block	Max. 1 A
Output	Number of outputs	32 outputs
	Output type	Source/PNP (Negative common)
	Connected load	Solenoid valve with surge voltage suppressor of 24 VDC and 1.5 W or less (made by SMC)
	Residual voltage	0.3 VDC or less
	Load current	Max. 2 A
Current consumption	0.3 A or less (SI unit internal parts)	
Weight	800 g or less	
Standard	CE marking	

Please contact SMC for the CSP+ file and operation manual.

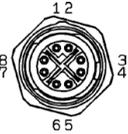
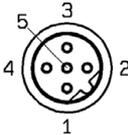
\*1 Refer to the following for the connectable blocks.

Part number	Remarks	
For input device	EX250-IE1	M12 connector, 2 inputs
	EX250-IE2	M12 connector, 4 inputs
	EX250-IE3	M8 connector, 4 inputs
For output device	EX9-OET1 *2	M12 connector, 2 outputs Source/PNP (Negative common), for low loads
	EX9-OEP1	M12 connector, 2 outputs Source/PNP (Negative common), for high loads
	EX9-PE1 *2	M12 connector, Power block

\*2 Refer to the following for the blocks for output devices which can be mounted to the 1st station on the U side.

Part number	Remarks
EX9-OET1-X31	For CC-Link IE Field
EX9-PE1-X31	

## Wiring Specifications

Communication connector PORT 1 (P1) & PORT 2 (P2)	Power supply connector PWR																																				
<p>M12 8-pin socket, X-Coding (Cat. 6A)</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Designation</th> </tr> </thead> <tbody> <tr><td>1</td><td>DA+</td></tr> <tr><td>2</td><td>DA−</td></tr> <tr><td>3</td><td>DB+</td></tr> <tr><td>4</td><td>DB−</td></tr> <tr><td>5</td><td>DD+</td></tr> <tr><td>6</td><td>DD−</td></tr> <tr><td>7</td><td>DC−</td></tr> <tr><td>8</td><td>DC+</td></tr> </tbody> </table> <p>Mating cable examples [M12 connector — Separate lines]                      : NBC-MSX/1,0-94F SCO (Order no.: 1407467) (1 m)                      : NBC-MSX/2,0-94F SCO (Order no.: 1407468) (2 m)                      : NBC-MSX/5,0-94F SCO (Order no.: 1407469) (5 m), etc.                      (made by PHOENIX CONTACT)</p> <p>[M12 connector — RJ45 connector]                      : NBC-MSX/1,0-94F/R4AC SCO (Order no.: 1407471) (1 m)                      : NBC-MSX/2,0-94F/R4AC SCO (Order no.: 1407472) (2 m)                      : NBC-MSX/5,0-94F/R4AC SCO (Order no.: 1407473) (5 m), etc.                      (made by PHOENIX CONTACT)</p>	No.	Designation	1	DA+	2	DA−	3	DB+	4	DB−	5	DD+	6	DD−	7	DC−	8	DC+	<p>M12 5-pin plug, B-coded</p>  <table border="1"> <thead> <tr> <th>No.</th> <th>Designation</th> <th>Function</th> </tr> </thead> <tbody> <tr><td>1</td><td>SV24V</td><td>+24 V for solenoid valve</td></tr> <tr><td>2</td><td>SV0V</td><td>0 V for solenoid valve</td></tr> <tr><td>3</td><td>SW24V</td><td>+24 V for control unit and input block</td></tr> <tr><td>4</td><td>SW0V</td><td>0 V for control unit and input block</td></tr> <tr><td>5</td><td>E</td><td>Grounding</td></tr> </tbody> </table> <p>Mating cable examples: EX9-AC010-1 (1 m)                      : EX9-AC030-1 (3 m)                      : EX9-AC050-1 (5 m) (made by SMC), etc.</p>	No.	Designation	Function	1	SV24V	+24 V for solenoid valve	2	SV0V	0 V for solenoid valve	3	SW24V	+24 V for control unit and input block	4	SW0V	0 V for control unit and input block	5	E	Grounding
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## How to Order

# EX250-S CF 1-X200

Communication protocol

CF	CC-Link IE Field
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Output specification

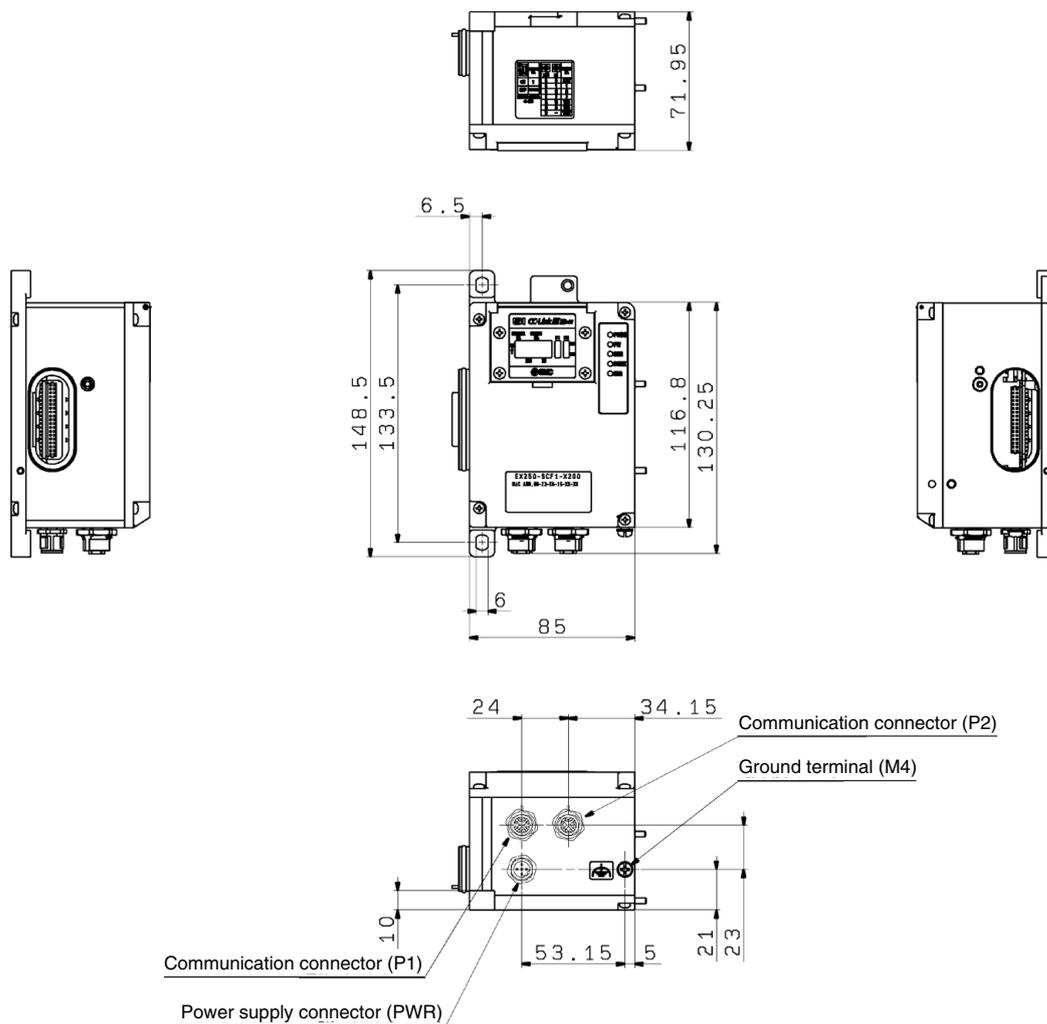
1	32 outputs, PNP (Negative common)/Source
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\* When ordering, order the end plate (Part no.: EX250-EA1) as a set to be used in combination.

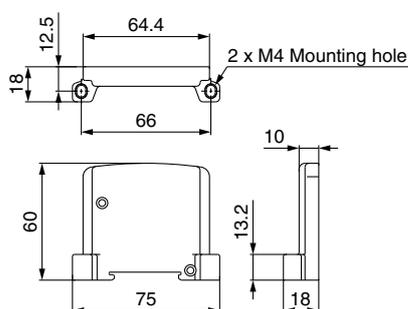
## Dimensions

[mm]

### EX250-SCF1-X200



### EX250-EA1



### ⚠ Caution

- For the dimensions when combined with the valve manifold, add the dimensions of this SI unit and end plate to the standard valve manifold dimensions of the "no SI unit" type.
- Order the valve manifold separately. Specify "no SI unit" and "negative common" for the valve manifold specifications.