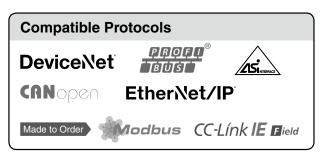
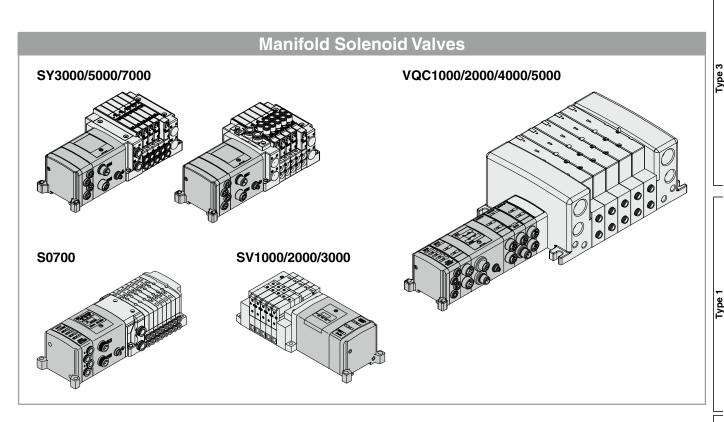
Fieldbus System (For Input/Output)

EX250 Series





- **★Enclosure IP67**
- **★**Maximum 32 inputs/32 outputs
- **★Sensors with M8/M12 connectors can be connected.**



14/126 EX260

EX500 EX123/124/126

EX600

EX245

EX250

EX140 EX120/121/122

EX180

EX510

CONTENTS

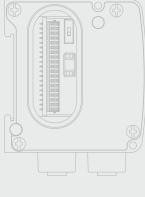
Type 3 Integrated input-output type

Fieldbus System (For Input/Output) EX250 Series











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Made to Order	
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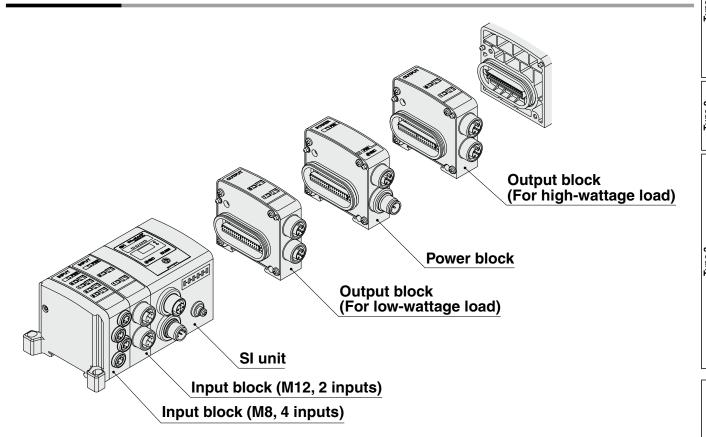
INPUT

⊘SMC

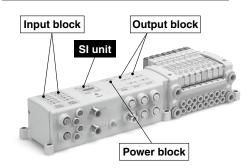
Fieldbus System For Input/Output

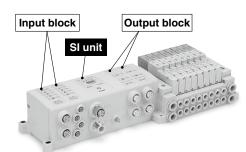
* Only the SY and SV valves are UL-compliant.

Parts Structure









●Made to Order ⇒ p. 167
DeviceNet® 7/8 inch connector

DN1*1	DeviceNet®
DN1-X102*1	DeviceNet®
PR1	PROFIBUS DP
AS3	AS-Interface (8in/8out 31 Slave Mode, 2 power supply systems)
AS5	AS-Interface (4in/4out 31 Slave Mode, 2 power supply systems)
AS7	AS-Interface (8in/8out 31 Slave Mode, 1 power supply system)
AS9	AS-Interface (4in/4out 31 Slave Mode, 1 power supply system)
CA1A	CANopen
EN1	EtherNet/IP™

^{*1} DN1's occupied points are 32 inputs and 32 outputs, while DN1-X102 has 48 inputs and 32 outputs.

6 EX260

EX123/124/126

EX500

EX600

EX245

EX250

EX120/121/122

EX140

EX180

EX510

M12

Specifications

Model			EX250-SDN1	EX250-SDN1-X102	EX250-SPR1	EX250-SCA1A	EX250-SEN1	EX250-SAS3/5	EX250-SAS7/9
	A 15 1- 1	Protocol	Devic	eNet®	PROFIBUS DE	CANopen	EtherNet/IP™	AS-Int	erface
	Applicable system	Version*2	Release 2.0		DP-V0	CiA DS-301 V4.02 CiA DS-401	Release 1.0		2.11 Idress Mode)
Communication	Communication speed		125 k/250	k/500 kbps	9.6 k/19.2 k/ 45.45 k/93.75 k/ 187.5 k/500 k/ 1.5 M/3 M/6 M/ 12 Mbps	10 k/20 k/50 k/ 125 k/250 k/ 500 k/800 k/ 1 Mbps	10 M/100 Mbps	167	kbps
Ē	Configurat	tion file*3	EDS	S file	GSD file	EDS file	EDS file	_	_
Ö	I/O occupa (Inputs/Ou		32/32	48/32	32/32	32/32	48/32	SAS3: 8/8 (2 slave units) SAS5: 4/4	SAS7: 8/8 (2 slave units) SAS9: 4/4
	Applicable	function	QuickCo	onnect™	_	_	_	_	_
	Terminatin	g resistor		Not pr	ovided		Not p	provided (Not requ	uired)
Power supply	For contro	For control		25 VDC lied by et [®] circuit)	24 VDC ±20%	18 V to 30 VDC (Supplied by CANopen circuit)	24 VDC ±20%	26.5 to 31.6 VDC (Supplied by	*4 26.5 to 31.6 VDC
voltage	For sensor	rs	24 VD0	C ±20%		24 VDC±20%		AS-i circuit)	(Supplied by AS-i circuit)
	For valve				24 VDC	+10%/–5%		ı	AO-1 circuit)
Internal current consumption (Unit)		100 mA or less					SAS3: 100 mA or less SAS5: 65 mA or less	SAS7: 100 mA or less SAS9: 65 mA or less	
.	Number of	inputs						SAS7: 8 inputs SAS9: 4 inputs	
Input	Supply vol	tage				24 VDC			
	Supply cur	rrent	1.0 A or less					SAS3: 240 mA or less SAS5: 120 mA or less	*5
	Output typ	e	Source/PNP (Negative common)						
	Number of outputs							SAS3: 8 outputs SAS5: 4 outputs	SAS7: 8 outputs SAS9: 4 outputs
Output	Load		Solenoid valve with surge voltage suppressor 24 VDC, 1.5 W or less (SMC) Output block Power block						
	Supply vol	tage				24 VDC			
	Supply cu	rrent		2.0 A or less			SAS3: 500 mA or less SAS5: 250 mA or less	*5	
	Fail safe			HOLD/CLEAR (Switch setting) CLEAR (Switch setting)					
<u>z</u>	Enclosure				ı	IP67	-		
Jce	Enclosure Operating tempor Operating tempor Withstand vo			5 to +45°C		−10 to +50°C		5 to +45°C	
Star	· · · · ·	numidity range	35 to 85%RH (No condensation)						
vird	Withstand	voltage		500 V	AC for 1 minute	between whole ex	kternal terminal a	ınd FG	
ត្ត Insulation resistance			10 $\mbox{M}\Omega$ or more (500 VDC) between whole external terminal and FG						
Standards			CE marking (EMC directive/RoHS directive), UL (CSA)						
Weight						250 g			
Accesso	ry*6					Tie-rod 2 pcs.			

^{*1} This is a specification to transmit the diagnostic information of voltage drop of the valve power supply and input block fuse blowout as an input data to the master. The EX250-SDN1 becomes I/O connection time out when the diagnostic information is detected, but not EX250-SDN1-X102.

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



^{*2} Please note that the version is subject to change.

^{*3} The setting file can be downloaded from SMC website, http://www.smcworld.com

^{*4} Since the EX250-SAS7/9 is compatible with the 1 power supply system, the power supply for units is divided into two: the power supply for sensors and for valves.

^{*5} Since the EX250-SAS7/9 is compatible with the 1 power supply system, the power supply must be divided in accordance with the values below. (Refer to page 170 for details.)

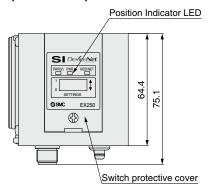
EX250-SAS7 ··· Max. 240 mA, EX250-SAS9 ··· Max. 120 mA

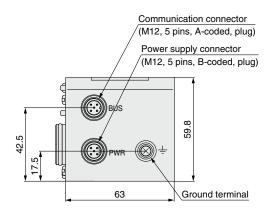
^{*6} When the SI unit is mounted to the manifold when shipped, accessories are shipped together with it.

^{*7} For detailed specifications other than the above, refer to the operation manual that can be downloaded from SMC website, http://www.smcworld.com

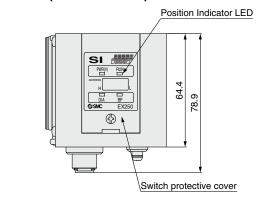
Dimensions/Parts Description

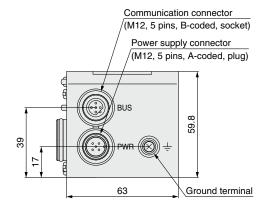
EX250-SDN1 (DeviceNet®)





EX250-SPR1 (PROFIBUS DP)

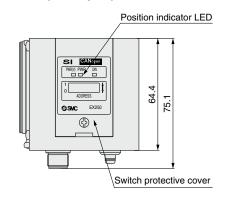


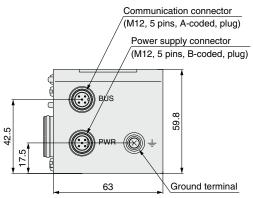


EX180

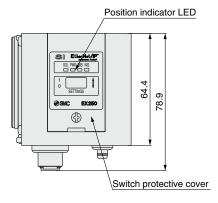
Dimensions/Parts Description

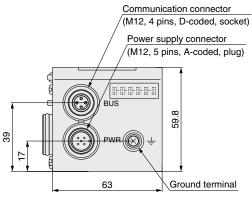
EX250-SCA1A (CANopen)



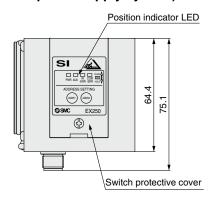


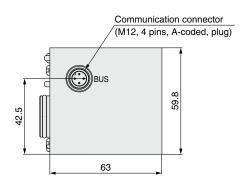
EX250-SEN1 (EtherNet/IP™)



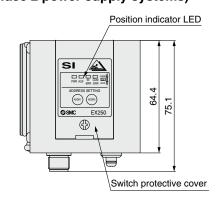


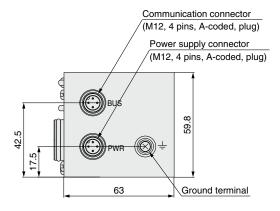
EX250-SAS7/9 (AS-Interface 1 power supply system)





EX250-SAS3/5 (AS-Interface 2 power supply systems)

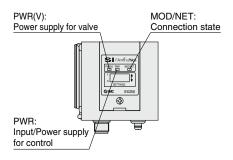




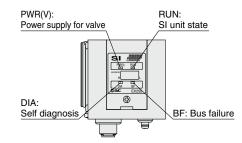


LED Indicator

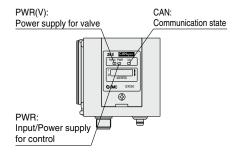
EX250-SDN1 (DeviceNet®)



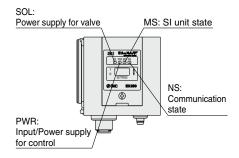
EX250-SPR1 (PROFIBUS DP)



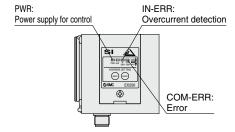
EX250-SCA1A (CANopen)



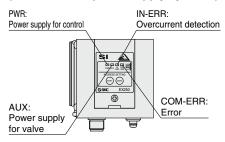
EX250-SEN1 (EtherNet/IP™)



EX250-SAS7/9 (AS-Interface 1 power supply system)



EX250-SAS3/5 (AS-Interface 2 power supply systems)



/126 EX260

EX123/124/126

Type 2 EX500

EX600

Type 3

EX120/121/122

EX250

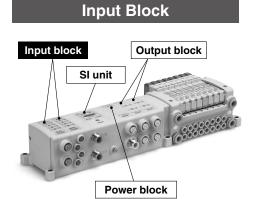
Type 1 EX140

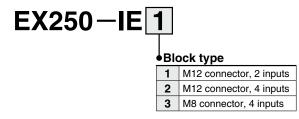
EX180

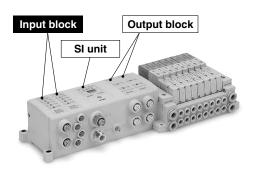
Type 2 EX510

M8/M12









For accessory, refer to pages 156 to 166.

Specifications

Model		EX250-IE1	EX250-IE1 EX250-IE2 EX				
	Input type	PNP/NPN sensor input (switched using a switch)					
	Number of inputs	2 inputs	2 inputs 4 inputs				
Input	Input device supply voltage		24 VDC				
	Input device supply current		Max. 30 mA/Point*1				
	Rated input current	Approx. 8 mA					
	Enclosure	IP67					
	Operating temperature range	−10 to +50°C					
Environmental resistance	Operating humidity range	35 to 85%RH (No condensation)					
resistance	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 marking, UL (CSA)					
Weight		90 g					
Accessory*2		Tie-rod 2 pcs.					

^{*1} When the maximum inputs to the SI unit is reached by adding an input block, pay attention not to exceed the supply current for the SI unit input.

*2 When the SI unit is integrated into manifold, its tie-rod is also incorporated at the time of shipment.

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

EX260

EX123/124/126

EX500

EX600

EX250

EX120/121/122

EX140

EX180

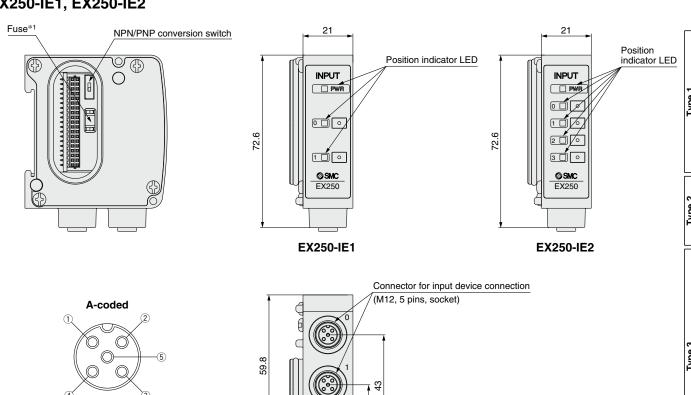
EX510

M8/M12

ATEX

Dimensions/Parts Description

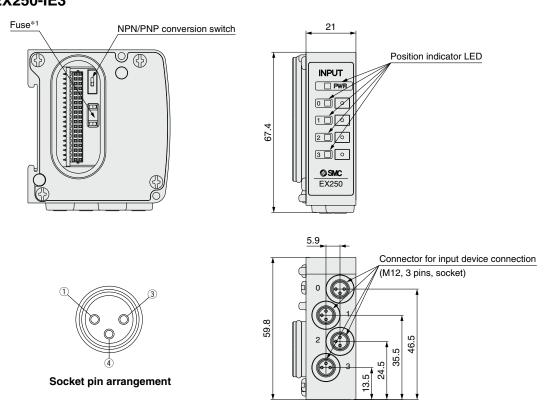
EX250-IE1, EX250-IE2



22

EX250-IE3

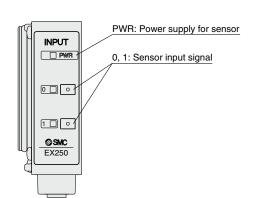
Socket pin arrangement



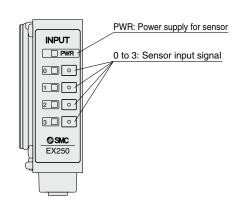
^{*1} Fuse for overcurrent protection If addressing the possible cause of a problem, even when the fuse is blown, it can be reinstated by replacing with a fuse as shown in options, page 157

LED Indicator

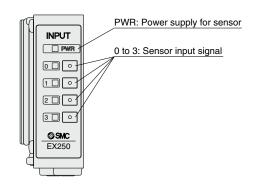
EX250-IE1



EX250-IE2

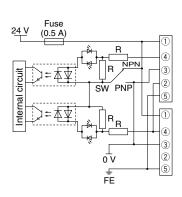


EX250-IE3

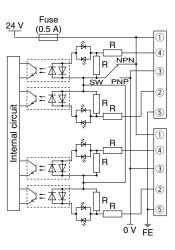


Internal Circuit

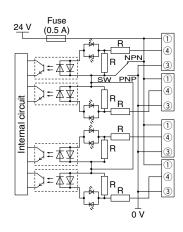
EX250-IE1



EX250-IE2



EX250-IE3

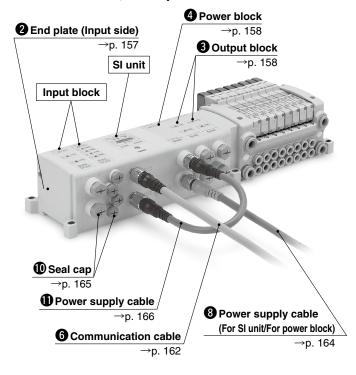




EX250 Series Accessories

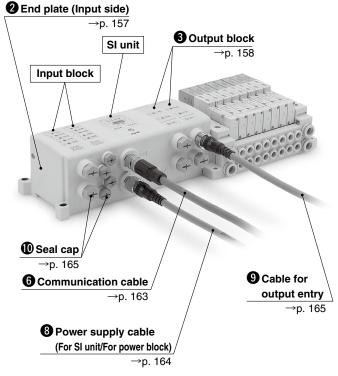
Example of Connections

Connection example of an SI unit compatible with DeviceNet®, CANopen



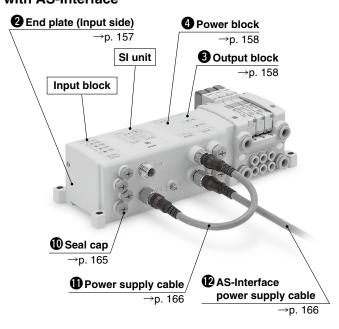
* The SI unit pictured above is compatible with DeviceNet®.

Connection example of an SI unit compatible with EtherNet/IP™, PROFIBUS DP



* The SI unit pictured above is compatible with PROFIBUS DP.

Connection example of an SI unit compatible with AS-Interface



Type 2 EX510

EX123/124/126

EX600

EX250

EX120/121/122

EX140

M8/M12

Replacement Fuse

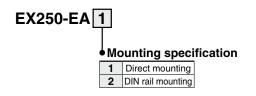
Replacement fuse required when the fuse for the input block (EX250-IE□) overcurrent protection is blown.

EX9-FU05

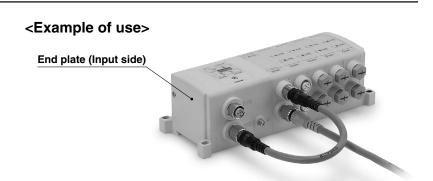
Model	EX9-FU05
Applicable model	EX250-IE□
Rated current	0.5 A
Rated insulation capacity	48 VAC/DC 50 A
Fuse resistance value	0.36 Ω



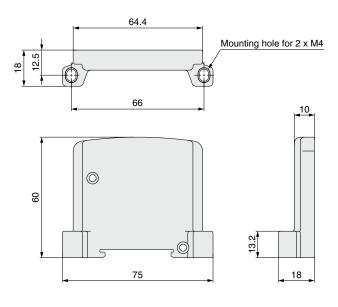
2 End Plate (Input side)



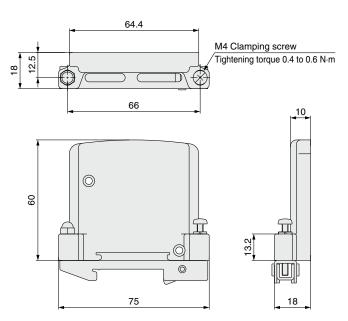
Accessory
Hexagon socket head cap screw (M3 x 10): 2 pcs.



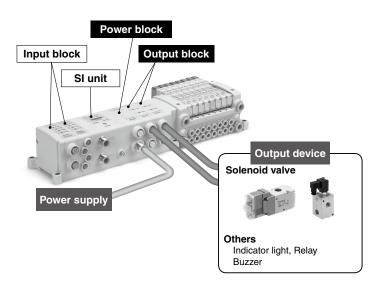
EX250-EA1



EX250-EA2



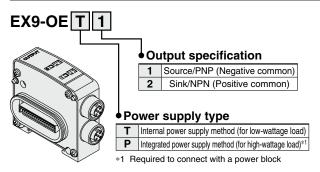
Accessories **EX250** Series



- Able to retrofit to the valve manifold, using the unused points
- 2-output (M12 connector)
- Positive/Negative common available as standard
- Able to drive by 0.5 A per point

You are requested to connect it to an SI unit and a valve manifold. For detailed specifications, refer to the operation manual that can be downloaded from SMC website, http://www.smcworld.com

3 Output Block



SI Unit/Part Nos.

SI unit part no.	Output	Applicable model
EX250-SDN1 EX250-SPR1 EX250-SASD EX250-SCA1A EX250-SEN1	Source/PNP (Negative common)	EX9-OET1 EX9-OEP1

Option/Part Nos.

Description	Part no.	Applicable model		Note
Description	Part no.	OET□	OEP□	Note
Seal cap	EX9-AWTS	0	0	Refer to page 165. Order separately: 10 pcs. included
Cable for output entry	EX9-AC□-7	0	0	Refer to page 165. Order separately.
Power block	EX9-PE1		0	Refer to page 159. Order separately.

4 Power Block

EX9-PE1



Option/Part Nos.

optionin art 1100.		
Description	Part no.	Note
Seal cap	EX9-AWTS	Refer to page 165. Order separately: 10 pcs. included
Power supply cable (For SI unit/For power block)	EX9-AC□-1	Refer to page 164. Order separately.
Power supply cable (For connecting the SI unit to the power block)	EX9-AC002-2 EX9-AC002-3 EX9-AC002-4	Refer to page 166. Order separately.
AS-Interface power supply cable	EX9-AC□-5	Refer to page 166. Order separately.

6 EX260

EX123/124/126

EX500

EX600

EX245

EX250

EX120/121/122

EX140

EX180

EX510

M8/M12



3 Output Block/ Power Block

Output Block Specifications

	Model	EX9-OET1	EX9-OET2	EX9-OEP1	EX9-OEP2	
Output connec	tor	M12 connector (5 pins)				
Internal curren	t consumption		40 mA	or less		
	Output type	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)	
	Number of outputs		2 ou	tputs		
Output	Power supply method	Internal power	supply method	Integrated power supply method (P	ower block: supplied from EX9-PE1)	
	Output device supply voltage		24 \	VDC		
	Output device supply current	Max. 62 mA/Point (1.5 W/Point)		Max. 0.5 A/Point (12 W/Point)		
Enclosure		IP67				
	Operating temperature range	−10 to +50°C				
Environmental resistance	Operating humidity range	35 to 85%RH (No condensation)				
resistance	Withstand voltage	150	00 VAC for 1 minute between	n whole external terminal and	FG	
	Insulation resistance	10 $M\Omega$ or more (500 VDC) between whole external terminal and FG				
Standards		CE marking, UL (CSA)				
Weight		120 g				
Accessory	Tie-rod	2 pcs.				

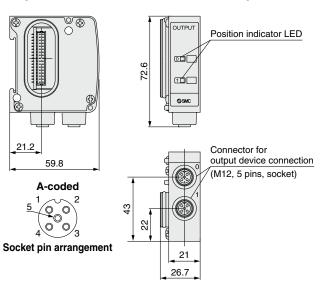
Power Block Specifications

Model		Model	EX9-PE1	
Connection block			Output block (EX9-OEP□)	
Connection blo	ck sta	ations	Output block: Max. 9 stations (excluding input blocks)*1	
Power supply for Power supply voltage		Power supply voltage	22.8 to 26.4 VDC	
output and inter		Internal power consumption	20 mA or less	
Supply current			Max. 3.1 A (When using with 3.0 to 3.1 A, the ambient temperature should not exceed 40°C, and do not bundle the cable.)	
	Enclosure		IP67	
	Ope	rating temperature range	−10 to +50°C	
Environmental resistance	Ope	rating humidity range	35 to 85%RH (No condensation)	
resistance	With	nstand voltage	1500 VAC for 1 minute between whole external terminal and FG	
	Insu	lation resistance	10 $M\Omega$ or more (500 VDC) between whole external terminal and FG	
Standards	ds		CE marking, UL (CSA)	
Weight			120 g	
Accessory		Tie-rod	2 pcs.	
		Seal cap (for M12 connector socket)	1 pc. (EX9-AWTS)	

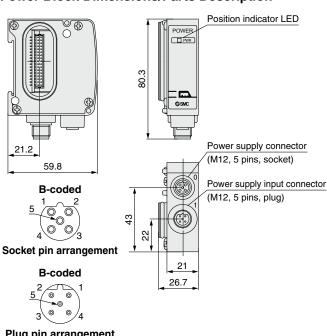
^{*1} The total number of connectable input/output/power block to the EX250 series SI unit (except for AS-Interface compliant) is 10 stations at the maximum.

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

Output Block Dimensions/Parts Description



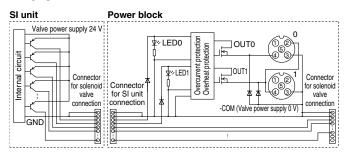
Power Block Dimensions/Parts Description



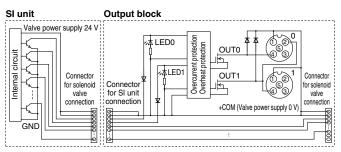
3 Output Block/ Power Block

Circuit Diagram

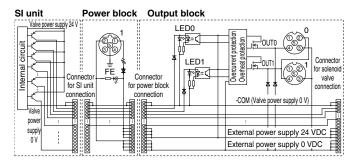
EX9-OET1



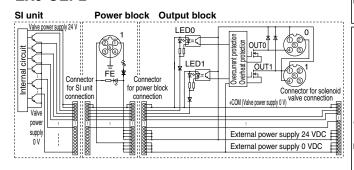
EX9-OET2



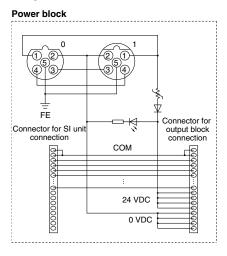
EX9-OEP1



EX9-OEP2



EX9-PE1



* When the valve which supplies power to the SI unit is turned OFF, the output of the output block (EX9-OE□) remains OFF.

160

Type 1 EX123/124/126 EX260

туре 2 EX500

EX600

EX24

EX120/121/122

EX250

EX140

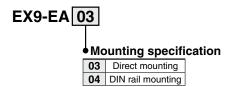
EX180

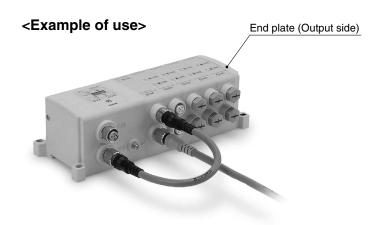
EX510

M8/M12

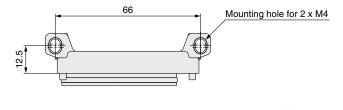
5 End Plate (Output side)

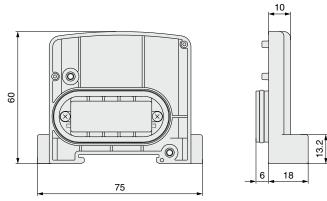
Use the end plate when a valve manifold is not connected.



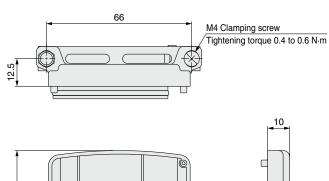


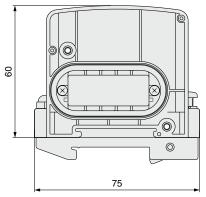
EX9-EA03

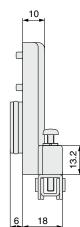




EX9-EA04

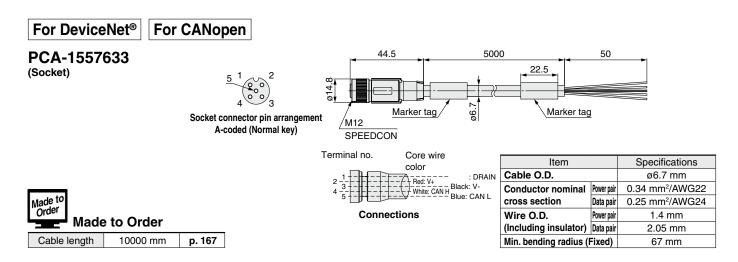


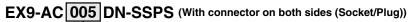


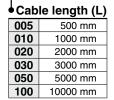


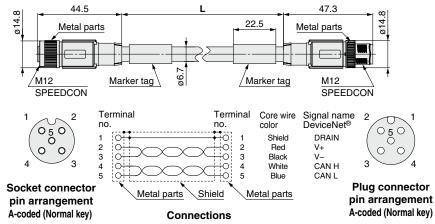
e 1	EX260
Typ	EX123/124/126
Type 2	EX500
	EX600
Type 3	EX245
	EX250
	EX140 EX120/121/122
Type 1	EX140
	EX180
Type 2	EX510
	M8/M12

6 Communication Cable









Item		Specifications
Cable O.D.		ø6.7 mm
Conductor nominal	Power pair	0.34 mm ² /AWG22
cross section Data pair		0.25 mm ² /AWG24
Wire O.D.	Power pair	1.4 mm
(Including insulator) Data pair		2.05 mm
Min. bending radius (Fixed)		67 mm



6 Communication Cable

47.3 5000 50 For PROFIBUS DP 22.5 PCA-1557691 (Plug) Marker tag Marker tag _ M12 Plug connector pin arrangement B-coded (Reverse key) SPEEDCON Terminal no. Core wire color Item Specifications Green: A Line Cable O.D. ø7.8 mm Red: B Line Conductor nominal cross section 0.34 mm²/AWG22 Wire O.D. (Including insulator) 2.55 mm Shield line is connected to the knurl.

Connections

Min. bending radius (Fixed)

Wire O.D. (Including insulator)

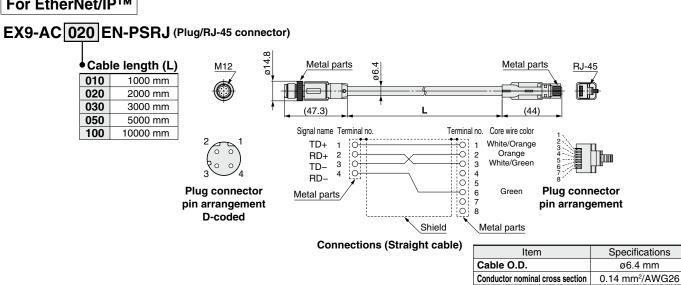
Min. bending radius (Fixed)

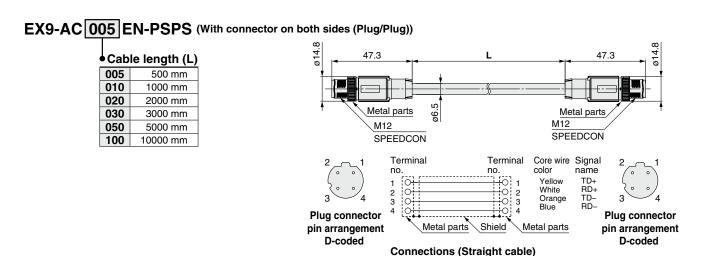
78 mm

0.98 mm

26 mm

For EtherNet/IP™





Item	Specifications
Cable O.D.	ø6.5 mm
Conductor nominal cross section	0.34 mm ² /AWG22
Wire O.D. (Including insulator)	1.55 mm
Min. bending radius (Fixed)	19.5 mm

7 Field-wireable Communication Connector

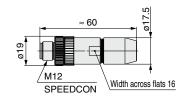
Plug

For DeviceNet®

For CANopen

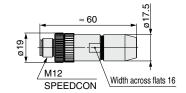
PCA-1075528





For PROFIBUS DP PCA-1075530

B-coded (Reverse key)



Applicable Cable

Item	Specifications
Cable O.D.	4.0 to 8.0 mm
Wire gauge (Stranded wire cross section)	0.14 to 0.75 mm²/AWG26 to 18 (Solid cable/Flexible cable) 0.08 to 0.5 mm²/AWG28 to 20 (With ferrule)

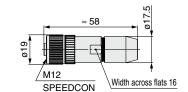
Socket

For DeviceNet®

For CANopen

PCA-1075529

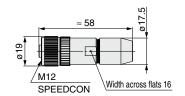




For PROFIBUS DP

PCA-1075531

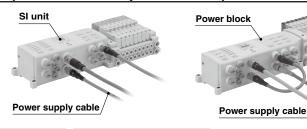




Applicable Cable

Item	Specifications
Cable O.D.	4.0 to 8.0 mm
Wire gauge (Stranded wire cross section)	0.14 to 0.75 mm²/AWG26 to 18 (Solid cable/Flexible cable) 0.08 to 0.5 mm²/AWG28 to 20 (With ferrule)

Power Supply Cable (For SI unit/For power block)

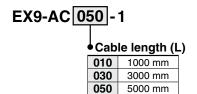


For DeviceNet® For CANopen

p. 168

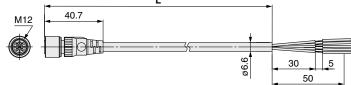
For Power block

Straight connector type



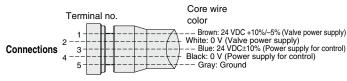






Item	Specifications
Cable O.D.	ø6.6 mm
Conductor nominal cross section	AWG22
Wire O.D. (Including insulator)	1.65 mm
Min. bending radius (Fixed)	40 mm





EX123/124/126

EX600

EX120/121/122

EX250

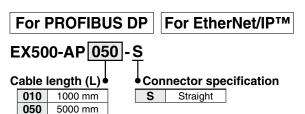
EX140

EX180

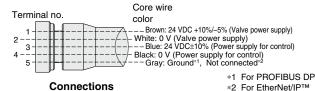
EX510

M8/M12

Power Supply Cable (For SI unit)



Straight connector type M12 27 Socket connector 40.7 50 pin arrangement

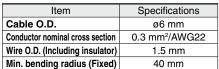


*2 For EtherNet/IP™



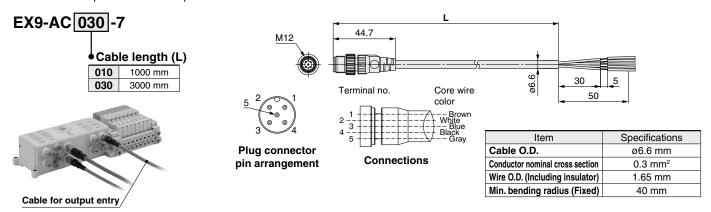
A-coded

Made to Order		
Cable length	10000 mm	p. 169



Cable for Output Entry

Connects the output block to the output device



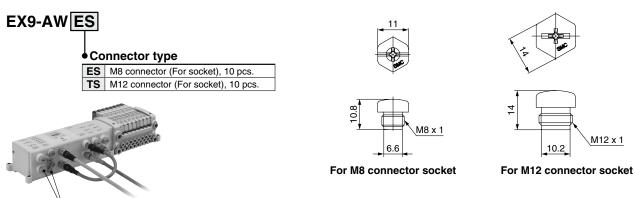
⑥ Seal Cap (10 pcs.)

Seal cap

165

Use this on ports that are not being used for an M8 or M12 connector (socket). Use of this seal cap maintains the integrity of the enclosure. (Seal caps are packed together with each unit.)

* Tighten the seal caps with the prescribed tightening torque. (For M8: 0.05 N·m, For M12: 0.1 N·m)



EX260

EX123/124/126

EX500

EX600

EX250

EX120/121/122

EX140

EX180

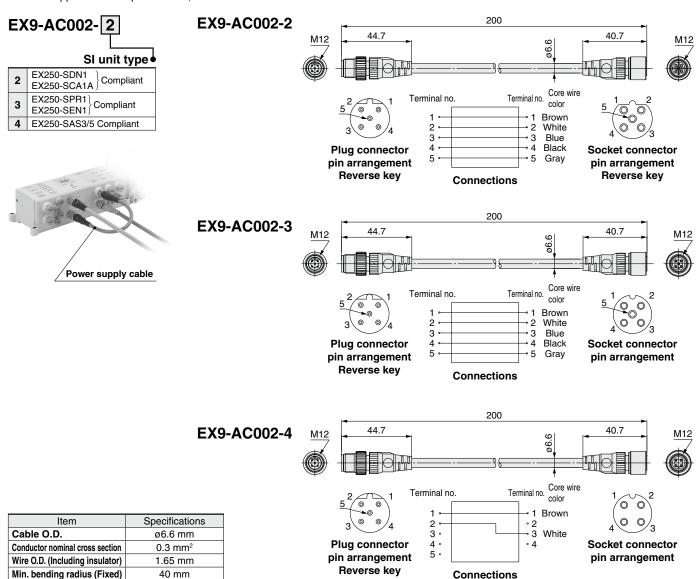
EX510

M8/M12

ATEX

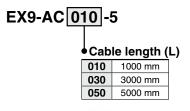
1 Power Supply Cable (For connecting the SI unit to the power block)

Connects between the power supply connector for the power block and the SI unit power supply connector, bridging the external power supply, which is supplied with the power block, to the SI unit.

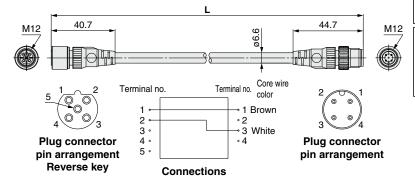


♠ AS-Interface Power Supply Cable

Cable connecting between AS-Interface power supply line (for external devices) branch connector (M12) and the power block's power supply input connector.







Item	Specifications
Cable O.D.	ø6.6 mm
Conductor nominal cross section	0.3 mm ²
Wire O.D. (Including insulator)	1.65 mm
Min. bending radius (Fixed)	40 mm

Made to Order

Please contact SMC for detailed specifications and lead times.

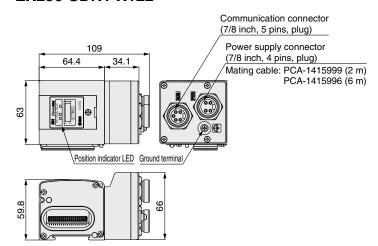
SI Unit

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

1) DeviceNet®, 7/8 inch connector, 32 inputs/32 outputs

(Occupied points: 48 inputs (32 inputs + diagnostic 16 inputs)/32 outputs)

EX250-SDN1-X122



Power supply connector



	1	24 VDC +10%/-5% (For valve)		
2 Unused 3 FE		Unused		
		FE		
	4	0 VDC (For valve)		

Communication connector



* When connecting to a VQC4000 series model, use a VVQC4000-3A-3□, etc., D side end plate. The VVQC4000-3A-2□ D side end plate used by the standard EX250-SDN1 model

1	DRAIN
2	V+
3	V-
4	CAN H
5	CAN L

Communication Cable cannot be used as it will come into contact with the EX250-SDN1-X122.

① With connector on one side (Socket)
Cable length: 10000 mm

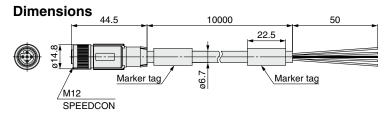
For DeviceNet®

EX9-AC100 DN-X12

Applicable protocol

DN DeviceNet®





Connections

	Terminal no.	Core wire color: Signal name (DeviceNet®
	1	Shield: DRAIN
	2	Red: V+
	3	Black: V-
or	4	White: CAN H
t	5	Blue: CAN L
-1		

Item		Specifications
Cable O.D.		ø6.7 mm
Conductor nominal	Power pair	0.34 mm ² /AWG22
cross section	Data pair	0.25 mm ² /AWG24
Wire O.D. Power pair		1.4 mm
(Including insulator) Data pair		2.05 mm
Min. bending radius (Fixed)		67 mm



Socket connector pin arrangement A-coded (Normal key)



Power Supply Cable

② With connector on one side (Socket)
Cable length: 10000 mm

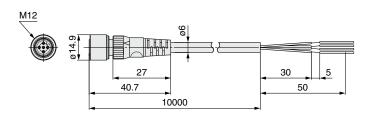
For PROFIBUS DP For Eth

For EtherNet/IP™

Straight connector type

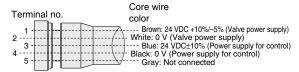
EX500-AP100-S-X1

Connector specification
S Straight





Socket connector pin arrangement A-coded



Connections (PROFIBUS DP, EtherNet/IP™)

Item	Specifications
Cable O.D.	ø6 mm
Conductor nominal cross section	0.3 mm ² /AWG22
Wire O.D. (Including insulator)	1.5 mm
Min. bending radius (Fixed)	40 mm



EX250 Series 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

When one AS-Interface power supply system is used

		EX250-SAS7	EX250-SAS9	
Power supply voltage		Supplied from AS-Interface circuit, 26.5 to 31.6 VDC*1		
Internal current consumption		Max. 100 mA	Max. 65 mA	
Input/output specification	Number of inputs	8	4	
	Number of outputs	8	4	
	Supply voltage	24 VDC		
	Supply current*2	Max. 240 mA	Max. 120 mA	

- *1 For communication power supply, use a power supply dedicated to AS-Interface. For details, please refer to operation manuals provided by the respective manufacturers.
- *2 The AS-Interface circuit provides current to the internal parts of the SI unit and all connected equipment.

Since there is a limit on the possible supply current to all connected equipment, select the equipment connected to the input/output device to stay within the possible supply current.

Example) When EX250-SAS9 is used

Valve: VQC1100NY - 5 (low-wattage type of 0.5 W) x 4 pcs.

0.5 [W] ÷ 24 [V] x 4 [pcs.]

= 84 [mA] (4 outputs simultaneously ON)

The maximum possible supply current of EX250-SAS9 is 120 mA. Therefore, the possible supply current to the sensor is $\frac{120}{120}$

120 [mA] - 84 [mA] = 36 [mA]

Use of low-wattage type valves by minimizing the maximum number of simultaneous outputs, and low current consumption sensors (2-wire sensor, etc.) is recommended.

Maximum number of AS-Interface compatible input blocks

SI unit specifications		Input block type		Input block maximum stations
	AS-Interface 8in/8out 31 Slave Mode, 2 power supply systems	1	M12/2 inputs	4 stations
EX250-SAS3		2	M12/4 inputs	2 stations
		3	M8/4 inputs	2 stations
	AS-Interface 4in/4out 31 Slave Mode, 2 power supply systems	1	M12/2 inputs	2 stations
EX250-SAS5		2	M12/4 inputs	1 station
		3	M8/4 inputs	1 station
	AS-Interface 8in/8out 31 Slave Mode, 1 power supply system	1	M12/2 inputs	4 stations
EX250-SAS7		2	M12/4 inputs	2 stations
		3	M8/4 inputs	2 stations
	AS-Interface 4in/4out 31 Slave Mode, 1 power supply system	1	M12/2 inputs	2 stations
EX250-SAS9		2	M12/4 inputs	1 station
		3	M8/4 inputs	1 station

Operating Environment

⚠ Caution

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

IP65 is achieved when the following conditions are met.

- Provide appropriate wiring between all units using electrical wiring cables, communication connectors and cables with M12 connectors.
- 2) Suitable mounting of each unit and valve manifold.
- 3) Be sure to mount a seal cap on any unused connectors. If using in an environment that is exposed to water splashes, please take measures such as using a cover.

126 EX260

EX123/124/126

Type 2 EX500

5 EX600

EX120/121/12

Type

EX510

M8/M12

ATEX

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