Fieldbus System

(Output device for driving 5-port solenoid valves)



Space-saving installation

- IP67
 - * For units with a D-sub connector, and when connected to S0700 manifolds, it is IP40.
- Drives up to 32 solenoids
- Daisy-chain wiring communication
 - * Excludes the units compatible with IO-Link





<Compatible Protocols>

























Please contact SMC for details on compatible products.





- Can be connected using a single cable
- Various types of diagnostic tests can be performed using service data.

Internal failure of the SI unit

Output short circuit Solenoid valve power supply failure | Abnormal internal temperature of the SI unit | Output switching count value exceeded

Output open circuit



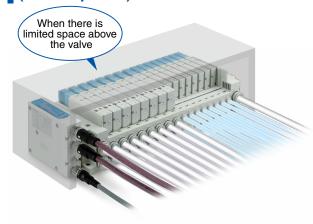




Manifold length reduced by approx. 53 mm



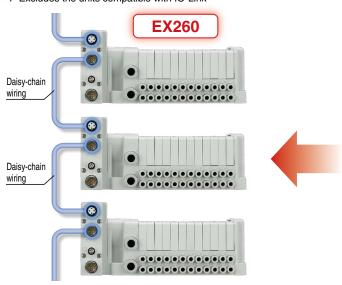
Wiring and piping from the same direction is possible. (for side ported)

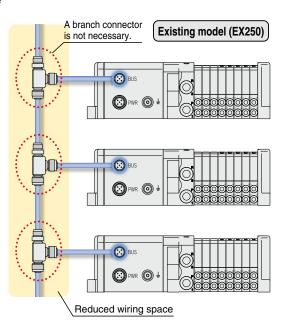


Daisy-chain wiring communication is possible.*1

A branch connector is not necessary/Reduced wiring space

*1 Excludes the units compatible with IO-Link



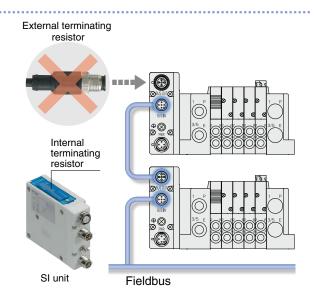


An external terminating resistor is not necessary.

(Only available for M12 PROFIBUS DP, CC-Link communication connectors)

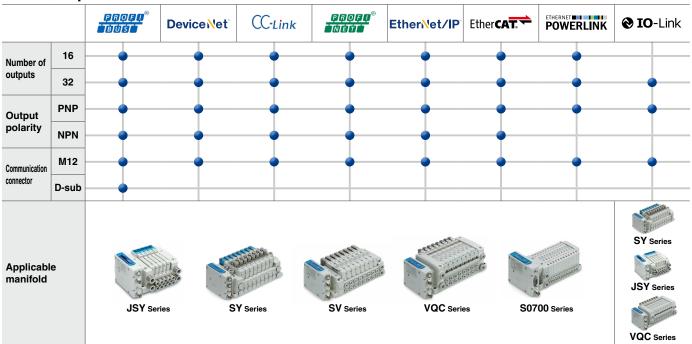
ON/OFF switching is possible with an internal terminating resistor.

An external terminating resistor is not necessary.





Product Specification Variations



■ Communication connector examples



Applicable Valve Series

Series		Flow rate charac (4/2 → 5/3		Maximum number of	Power consumption	Applicable cylinder
		C [dm³/(s⋅bar)]	b	solenoids	[W]	size
IP67 *1	SY3000	1.6	0.19		0.35	ø50
C Flus	SY5000	3.6	0.17	32	(Standard) 0.1	ø63
c A sus	SY7000	5.9	0.20		(With power-saving circuit)	ø80
IP67 *1,*3	JSY1000	0.91	0.48		0.2 (With power-saving circuit)	ø40
CE	JSY3000	2.77	0.27	32	0.4 (Standard)	ø50
	JSY5000	6.59	0.22		0.1 (With power-saving circuit)	ø80
IP40 CE	S0700*2	0.37	0.39	32	0.35	ø25
IP67 *1	SV1000*2	1.1	0.35			ø40
C C C C C C C C C C C C C C C C C C C	SV2000*2	2.4	0.18	32	0.6	ø63
C 7 Sus	SV3000*2	4.3	0.21			ø80
1007 *1	VQC1000	1.0	0.30		0.4	ø40
IP67 *1 C €	VQC2000	3.2	0.30	24	(Standard)	ø63
O Comment of the Control of the Cont	VQC4000	7.3	0.38	24	0.95 (Standard)	ø160
	VQC5000	17	0.31		0.4 (Low-wattage type)	ø180

^{*1} Units with a D-sub communication connector are IP40.



^{*2} There is no manifold part number setting for the IO-Link compatible units.

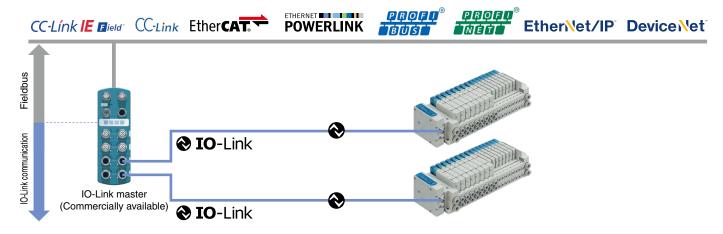
^{*3} IP40 for the JSY1000

New IO-Link compatible

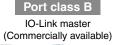
Integratable with various existing networks

IO-Link devices can be easily connected to various networks via the IO-Link master, which acts as a gateway between IO-Link communication and various Fieldbusses.

Solenoid valves can be connected for communication without relying upon a Fieldbus or PLC.



Can be connected using a single general-purpose cable, resulting in a reduction in the space required for wiring

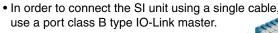


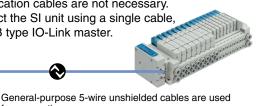
supply load

- Connect the IO-Link master port to the device using a 1:1 configuration.
- Connect using an M12 round connector.
- Maximum cable length: 20 m

IO-Link

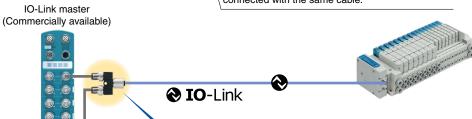
· Special communication cables are not necessary.







for connection. The signal wire and valve power supply wire can be connected with the same cable.



SI unit/Connector pin arrangement

Port class B compliant

Pin no.	SI unit port pin function (Port class B)
1	+24 V for control unit
2	+24 V for solenoid valve
3	0 V for control unit
4	IO-Link communication
5	0 V for solenoid valve

Difference between IO-Link

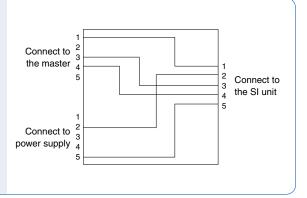
	master port class A and class b							
	Pin	IO-Link master port pin function						
no.		Port class A	Port class B					
	1	+24 V	+24 V					
	2	NC/DI/DO	Additional power supply +24 V					
	3	0 V	0 V					
	4	IO-Link/DI/DO	IO-Link/DI/DO					
	5	NC	Additional power supply 0 V					

Y Branch Connector

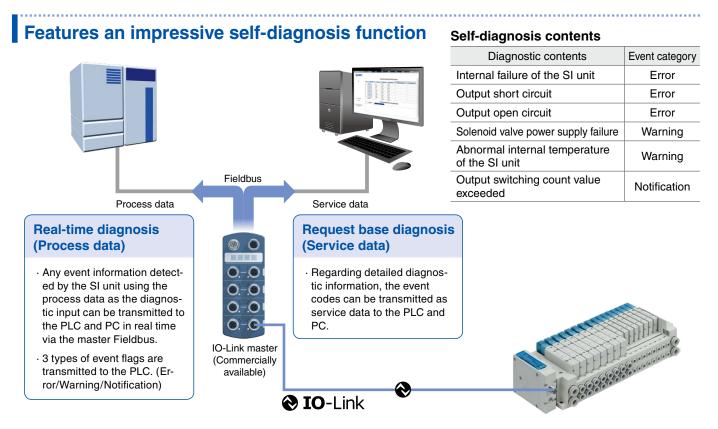
Port class A compliant A special wiring Y branch connector is available.



Used when connecting to a port class A type IO-Link master, which is often used when connecting to an IO-Link sensor



New IO-Link compatible



Equipped with a solenoid valve output operation count function

The number of valve operation instructions is counted for each output of the solenoid valve.

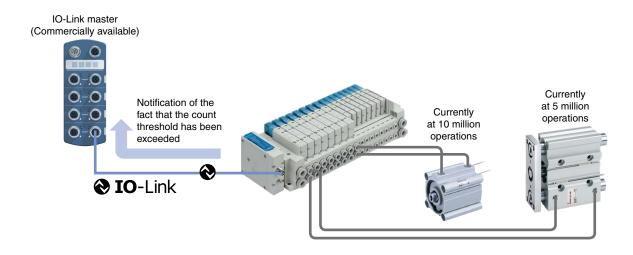
Set the count threshold value to be used as a guide for maintenance according to the operating conditions of the cylinder connected to the solenoid valve.



Once the threshold value is reached, notification of this fact will take place automatically.



This enables periodic maintenance to be performed before any unexpected cylinder failures occur.



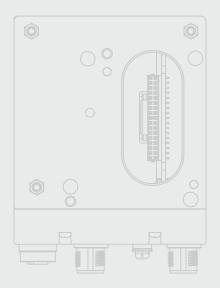


CONTENTS

Fieldbus System (Output device for driving 5-port solenoid valves) EX260 Series

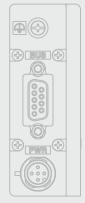






How to Order SI Units Specifications Dimensions Parts Description LED Indicator	···· p. 7 ···· p. 8 ···· p. 9
Accessories ① Communication Cable ② Field-wireable Communication Connector ③ Power Supply Cable (For SI unit) ④ Power Supply Cable (For SI unit/For power block) ⑤ Seal Cap (10 pcs.) ⑥ Output Block ⑦ Power Block ③ Connector for Output Block Wiring ⑨ End Plate ① Bracket Plate/DIN Rail Mounting Bracket	p. 17 p. 18 p. 19 p. 19 p. 20 p. 20 p. 21
Made to Order SI Unit EtherNet/IP™ Web server function compatible ···· Communication Cable ····· Power Supply Cable ·····	··· p. 22
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Fieldbus System For Output

EX260 Series (5 cm)





Compact design	Compact design for space saving
Number of outputs	32/16 digital output type available for each unit in the series (IO-Link is only compatible with the 32-point digital output type.)
Output polarity	Negative common (PNP)/positive common (NPN) type available for each unit in the series (Only negative common (PNP) is available for units compatible with Ethernet POWERLINK and IO-Link.)
Enclosure	IP67 (For units with a D-sub connector, and when connected with S0700 manifolds, it is IP40.)
Internal terminating resistor	ON/OFF switching is possible with an internal terminating resistor for communication. (Only for units compatible with M12 PROFIBUS DP, CC-Link communication connectors)

Applicable Manifold

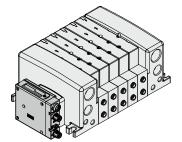
VQC1000/2000/4000/5000 SY3000/5000/7000 JSY1000/3000/5000

S0700

SV1000/2000/3000











How to Order SI Units

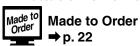
EX260-SPR1

Communication protocol •

Symbol	Protocol	Number of outputs	Output polarity	Communication connector	Manifold symbol	Applicable manifold
DN1			Source/PNP (Negative common)		QAN	
DN2	Douiso NotTM	32	Sink/NPN (Positive common)	M12	QA	
DN3	DeviceNet™	16	Source/PNP (Negative common)	IVITZ	QBN	
DN4		16	Sink/NPN (Positive common)		QB	
PR1		32	Source/PNP (Negative common)		NAN	SY3000 SY5000
PR2	PROFIBUS DP	32	Sink/NPN (Positive common)	M12	NA	SY7000 JSY1000 JSY3000 JSY5000 VQC1000 VQC2000 VQC4000 VQC5000 S0700
PR3		16	Source/PNP (Negative common)	IVIIZ	NBN	
PR4		10	Sink/NPN (Positive common)		NB	
PR5		32	Source/PNP (Negative common)		NCN	
PR6			Sink/NPN (Positive common)	D-sub*1	NC	
PR7			Source/PNP (Negative common)	D-Sub	NDN	SV1000
PR8		10	Sink/NPN (Positive common)		ND	SV2000 SV3000
MJ1	32		Source/PNP (Negative common)		VAN	
MJ2	CC-Link	32	Sink/NPN (Positive common)	M12	VA	
MJ3		16	Source/PNP (Negative common)		VBN	
MJ4		10	Sink/NPN (Positive common)		VB	

Symbol	Protocol	Number of outputs	Output polarity	Communication connector	Manifold symbol	Applicable manifold
EC1		32	Source/PNP (Negative common)		DAN	
EC2	F45 - "OAT	32	Sink/NPN (Positive common)	M12	DA	
EC3	EtherCAT	10	Source/PNP (Negative common)	IVIIZ	DBN	
EC4		16	Sink/NPN (Positive common)		DB	SY3000 SY5000
PN1		32	Source/PNP (Negative common)		FAN	SY7000
PN2	PROFINET	32	Sink/NPN (Positive common)	M12	FA	JSY1000 JSY3000
PN3	PROFINEI	16	Source/PNP (Negative common)	IVITZ	FBN	JSY5000 VQC1000 VQC2000 VQC4000 VQC5000
PN4		10	Sink/NPN (Positive common)		FB	
EN1	Fit. ALL//PTM	32 16	Source/PNP (Negative common)	M12	EAN	
EN2			Sink/NPN (Positive common)		EA	S0700 SV1000
EN3	Enightenic		Source/PNP (Negative common)		EBN	SV2000 SV3000
EN4		10	Sink/NPN (Positive common)		EB	0.0000
PL1	Ethernet 32		Source/PNP	M12	GAN	
PL3			(Negative common)	IVITZ	GBN	
IL1	IO-Link	32	Source/PNP (Negative common)	M12	KAN	SY3000/5000/7000 JSY1000/3000/5000 VQC1000/2000/4000/5000

^{*1} Enclosure is IP40 when the communication connector is D-sub.



* For "How to Order Manifold Assembly," refer to the Web Catalog of each valve.



EtherNet/IP™ Web server function compatible

Specifications

All SI Units Common Specifications

Power supply	Power supply voltage	21.6 to 26.4 VDC*1		
for control Internal current consumption		100 mA or less		
Power supply for output	Power supply voltage	22.8 to 26.4 VDC		
Enclosure		IP67*2		
	Operating temperature range	−10 to +50°C		
Environmental resistance	Operating humidity range	35 to 85%RH (No condensation)		
Tesistanee	Withstand voltage	500 VAC for 1 minute between terminals and housing		
	Insulation resistance	10 $\mbox{M}\Omega$ or more (500 VDC measured via megohmmeter) between terminals and housing		
Standards		CE marking (EMC directive/RoHS directive), UL (CSA) compliant		
Weight		200 g		
	Mounting screw	2 pcs.		
Accessories	Seal cap (for M12 connector socket)	EX9-AWTS (1 pc.)*3		

- *1 To serve as the power supply for communication, the power supply voltages are 11 to 25 VDC for the EX260-SDN□ and 18 to 30 VDC for the EX260-SIL1.
- *2 IP40 applies to EX260-SPR5/6/7/8.
- *3 Not provided for EX260-SPR5/6/7/8

N	lodel	EX260-SPR1/3	EX260-SPR2/4	EX260-SPR5/7	EX260-SPR6/8	EX260-SDN1/3	EX260-SDN2/4	EX260-SMJ1/3	EX260-SMJ2/4	
	Protocol		PROFIL	BUS DP		DeviceNet™		CC-Link		
Applicable system	Version*1		DP	2-V0			Edition 3.5) Edition 1.5)	Ver.1.10		
	Configuration file*3		GSI) file		EDS	S file	CSP	+ file	
I/O occupation area (Inputs/Outputs)		SPR1: 0/32 SPR3: 0/16	SPR2: 0/32 SPR4: 0/16	SPR5: 0/32 SPR7: 0/16	SPR6: 0/32 SPR8: 0/16	SDN1: 0/32 SDN3: 0/16	SDN2: 0/32 SDN4: 0/16	SMJ1: 32/32 SMJ3: 32/32 (1 station, remote I/O stations)	SMJ2: 32/32 SMJ4: 32/32 (1 station, remote I/O stations)	
Applicable	function		— QuickConnect™					_	_	
Communication speed 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 125 k/250 k/500 kl			k/500 kbps	156 k/625 k/ 2.5 M/5 M/10 Mbps						
Communication of	onnector specification	M12 D-sub			M12					
Terminating	resistor switch	Built-in No			one		Built-in			
	Output type	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)	
0	Number of outputs	SPR1: 32 points SPR3: 16 points	SPR2: 32 points SPR4: 16 points	SPR5: 32 points SPR7: 16 points		SDN1: 32 points SDN3: 16 points	SDN2: 32 points SDN4: 16 points	SMJ1: 32 points SMJ3: 16 points	SMJ2: 32 points SMJ4: 16 points	
Output	Load		Soler	oid valve with s	urge voltage sup	pressor 24 VDC	, 1.5 W or less (SMC)		
	Supplied voltage				24 \	VDC				
	Supplied current	SPR1: Max. 2.0 A SPR3: Max. 1.0 A	SPR2: Max. 2.0 A SPR4: Max. 1.0 A	SPR5: Max. 2.0 A SPR7: Max. 1.0 A		SDN1: Max. 2.0 A SDN3: Max. 1.0 A	SDN2: Max. 2.0 A SDN4: Max. 1.0 A	SMJ1: Max. 2.0 A SMJ3: Max. 1.0 A	SMJ2: Max. 2.0 A SMJ4: Max. 1.0 A	

M	lodel	EX260-SEC1/3	EX260-SEC2/4	EX260-SPN1/3	EX260-SPN2/4	EX260-SEN1/3	EX260-SEN2/4	EX260-SPL1	EX260-SPL3	EX260-SIL1
	Protocol	Ether	CAT*2	PROFINET*2		EtherNe	et/IP TM *2	Ethernet PO	WERLINK*2	IO-Link
Applicable system	Version*1	Conformance Test Record V.1.1		PROFINET Specification Version 2.2			Volume1 (Edition 3.17) Volume2 (Edition 1.18)		EPSG DS 301 Version 1.2.0	
	Configuration file*3	XMI	_ file	GSE) file	EDS	S file	XDE) file	IODD file
I/O occupa (Inputs/Ou		SEC1: 0/32 SEC3: 0/16	SEC2: 0/32 SEC4: 0/16	SPN1: 0/32 SPN3: 0/16	SPN2: 0/32 SPN4: 0/16	SEN1: 16/32 SEN3: 16/16	SEN2: 16/32 SEN4: 16/16	16/32	16/16	0/32 16/32*4
Applicable	function	_	_	FSU,	MRP	QuickConnect™, DLR		_	_	_
Communic	cation speed		100 M	lbps*2		10 M/100) Mbps*2	100 M	bps*2	COM3/COM2*4
Communication co	onnector specification	M12								
Terminating	resistor switch	None (Not required)								
	Output type	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)	Sink/NPN (Positive common)	(N	Source/PNP egative commo	on)
	Number of outputs		SEC2: 32 points SEC4: 16 points	SPN1: 32 points SPN3: 16 points		SEN1: 32 points SEN3: 16 points	SEN2: 32 points SEN4: 16 points	32	16	32
Output	Load	Solenoid valve with surge voltage suppressor 24 VDC, 1.5 W or less (SMC) Solenoid valve with surge voltage suppressor 24 VDC, 1.0 W or less (SMC)			Solenoid valve with surge voltage suppressor 24 VDC, 1.5 W or less (SMC)					
	Supplied voltage					24 VDC				
	Supplied current	SEC1: Max. 2.0 A SEC3: Max. 1.0 A	SEC2: Max. 2.0 A SEC4: Max. 1.0 A	SPN1: Max. 2.0 A SPN3: Max. 1.0 A	SPN2: Max. 2.0 A SPN4: Max. 1.0 A	SEN1: Max. 2.0 A SEN3: Max. 1.0 A	SEN2: Max. 2.0 A SEN4: Max. 1.0 A	Max. 2 A	Max. 1 A	Max. 2 A

- *1 Please note that the version is subject to change.
- *2 Use a CAT5 or higher transmission cable for EtherCAT, PROFINET, Ethernet/IP™, and Ethernet POWERLINK.
- *3 The configuration file can be downloaded from the SMC website, https://www.smcworld.com
- *4 A selection can be made using the setting switch.

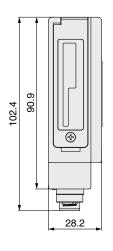


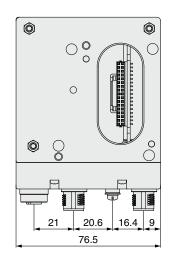
Dimensions

M12 communication connector type

For CC-Link | For EtherCAT | For PROFINET

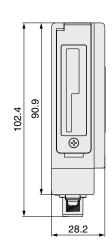
For EtherNet/IP™ For Ethernet POWERLINK

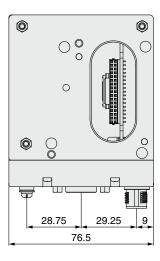




D-sub communication connector type (EX260-SPR5/6/7/8)

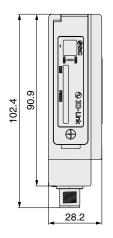
For PROFIBUS DP

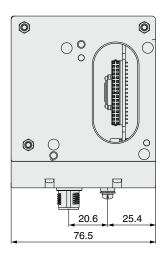




M12 communication connector type

For IO-Link

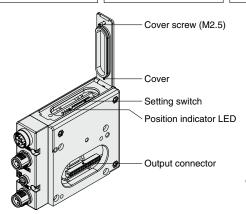




Parts Description

For PROFIBUS DP | For DeviceNet™ | For CC-Link

For EtherCAT For PROFINET For EtherNet/IP™ For Ethernet POWERLINK



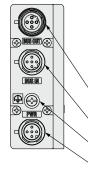
The setting switch varies depending on the model.

Refer to the operation manual for details.

It can be downloaded via the SMC website: https://www.smcworld.com

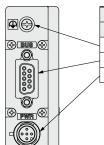
<Connector>

M12 communication connector type



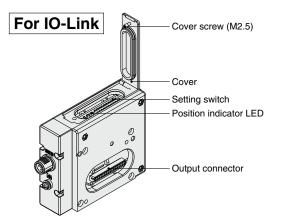
	Part no.	EX260-SPR1/-SPR2 -SPR3/-SPR4	EX260-SDN□	EX260-SMJ□	EX260-SEC□ EX260-SPN□ EX260-SEN□ EX260-SPL□	
Communication protocol		PROFIBUS DP	DeviceNet™	CC-Link	EtherCAT PROFINET EtherNet/IP™ Ethernet POWERLINK	
	Communication connector (M12) BUS OUT	5 pins, socket, B code (SPEEDCON)	5 pins, socket, A code (SPEEDCON)	5 pins, socket, A code*1 (SPEEDCON)	4 pins, socket, D code (SPEEDCON)	
	Communication connector (M12) BUS IN	5 pins, plug, B code (SPEEDCON)	5 pins, plug, A code (SPEEDCON)	4 pins, plug, A code (SPEEDCON)	4 pins, socket, D code (SPEEDCON)	
	Ground terminal	M3				
\	Power connector (M12)	5 pins, plug, A code (SPEEDCON)	4 pins, plug, A code (SPEEDCON)	5 pins, plug, B code (SPEEDCON)	5 pins*2, 4 pins*3, plug, A code (SPEEDCON)	

D-sub communication connector type

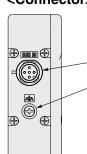


Part no.	EX260-SPR5/-SPR6/-SPR7/-SPR8		
Communication protocol	PROFIBUS DP		
Ground terminal	M3		
Communication connector (D-sub) BUS IN/OUT	9 pins, socket		
Power connector (M12)	5 pins, plug, A code		

- *1 Recommended mating M12 4-pin plug part no.: PCA-1567717
- *2 For EtherCAT, PROFINET, and Ethernet POWERLINK
- *3 For EtherNet/IP™



<Connector>



Part no.	EX260-SIL1
Communication protocol	IO-Link
Communication/	5 pins, plug,*1
Power connector (M12)	A code (SPEEDCON)
Ground terminal	M3

*1 The communication line, SI unit power supply line, and the solenoid valve power supply line are connected using the same cable.

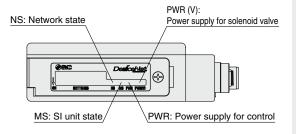
The setting switch varies depending on the model.
 Refer to the operation manual for details.
 It can be downloaded via the SMC website: https://www.smcworld.com



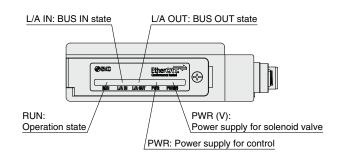
LED Indicator

For DeviceNet™

EX260-SDN□

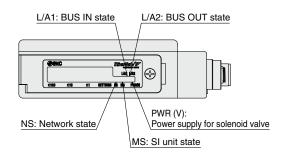


For EtherCAT EX260-SEC□



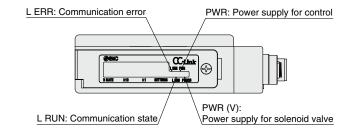
For EtherNet/IP™

EX260-SEN□



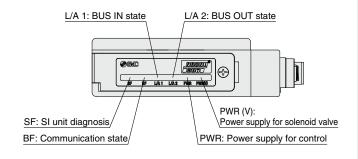
For CC-Link

EX260-SMJ□



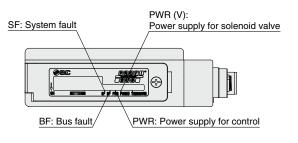
For PROFINET

EX260-SPN□



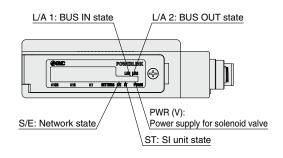
For PROFIBUS DP

EX260-SPR□



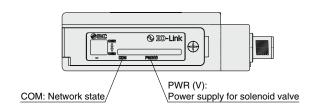
For Ethernet POWERLINK

EX260-SPL□



For IO-Link

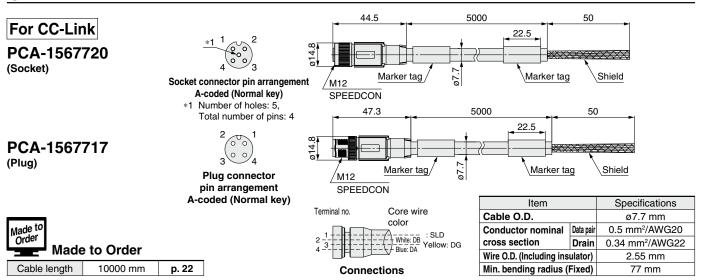
EX260-SIL1





EX260 Series Accessories

Communication Cable



EX9-AC 005 MJ-SSPS (With connector on both sides (Socket/Plug))

◆ Cable length (L)

005 500 mm

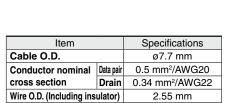
010 1000 mm

020 2000 mm

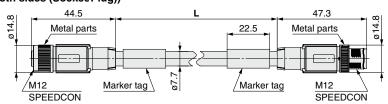
030 3000 mm

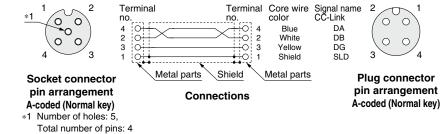
050 5000 mm

100 10000 mm



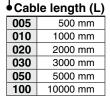
Min. bending radius (Fixed)



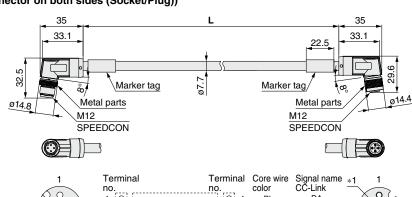


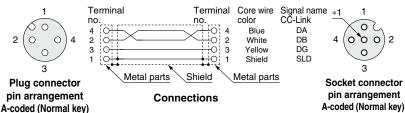
EX9-AC 005 MJ-SAPA (With angled connector on both sides (Socket/Plug))

77 mm



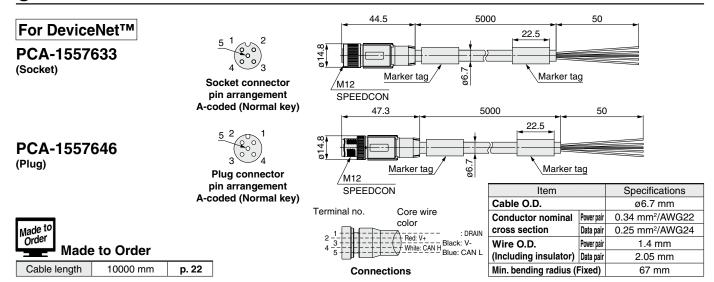
Item		Specifications
Cable O.D.		ø7.7 mm
Conductor nominal	Data pair	0.5 mm ² /AWG20
cross section	Drain	0.34 mm ² /AWG22
Wire O.D. (Including insulator)		2.55 mm
Min. bending radius (Fixed)		77 mm





*1 Number of holes: 5, Total number of pins: 4

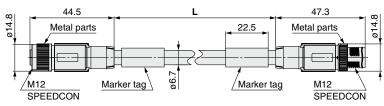
Communication Cable

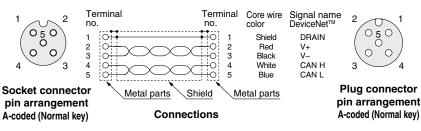


EX9-AC 005 DN-SSPS (With connector on both sides (Socket/Plug))

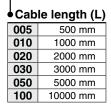
Ocable length (L) 005 500 mm 010 1000 mm 020 2000 mm 030 3000 mm 050 5000 mm 100 10000 mm

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

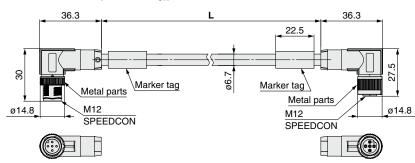


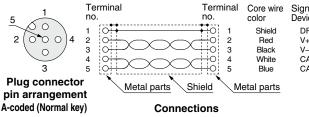


EX9-AC 005 DN-SAPA (With angled connector on both sides (Socket/Plug))



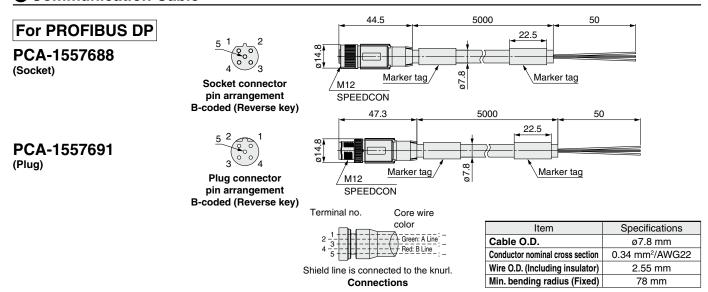
Item		Specifications	
Cable O.D.		ø6.7 mm	
Conductor nominal	Power pair	0.34 mm ² /AWG22	
cross section	Data pair	0.25 mm ² /AWG24	
Wire O.D.	Power pair	1.4 mm	
(Including insulator)	Data pair	2.05 mm	
Min. bending radius (Fixed)		67 mm	

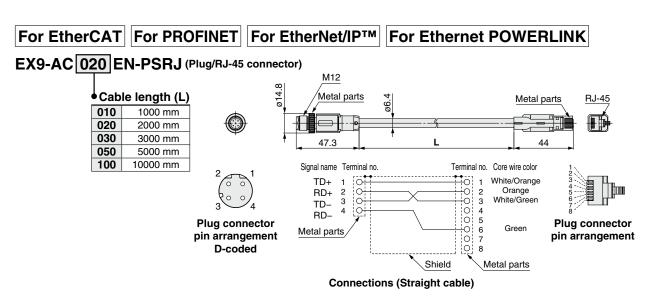




Socket connector pin arrangement A-coded (Normal key)

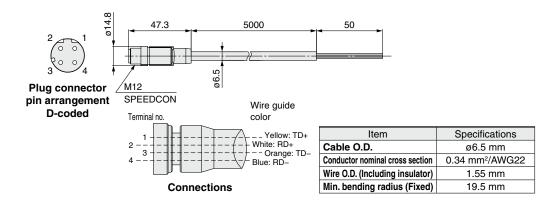
Communication Cable





Item	Specifications
Cable O.D.	ø6.4 mm
Conductor nominal cross section	0.14 mm ² /AWG26
Wire O.D. (Including insulator)	0.98 mm
Min. bending radius (Fixed)	26 mm



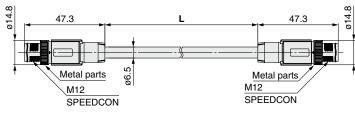


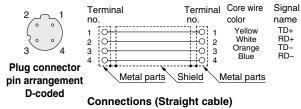
Communication Cable

For EtherCAT | For PROFINET | For EtherNet/IP™ | For Ethernet POWERLINK

EX9-AC 005 EN-PSPS (With connector on both sides (Plug/Plug))

Cable length (L) 005 500 mm 010 1000 mm 020 2000 mm 030 3000 mm 050 5000 mm 100 10000 mm

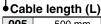




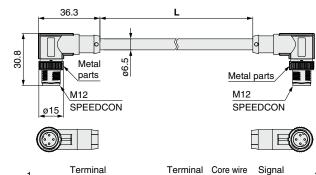
Plug connector pin arrangement D-coded

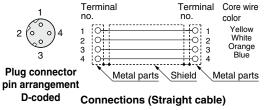
Item	Specifications
Cable O.D.	ø6.5 mm
Conductor nominal cross section	0.34 mm ² /AWG22
Wire O.D. (Including insulator)	1.55 mm
Min. bending radius (Fixed)	19.5 mm

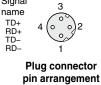
EX9-AC 005 EN-PAPA (With angled connector on both sides (Plug/Plug))



005	500 mm
010	1000 mm
020	2000 mm
030	3000 mm
050	5000 mm
100	10000 mm







D-coded

 Item
 Specifications

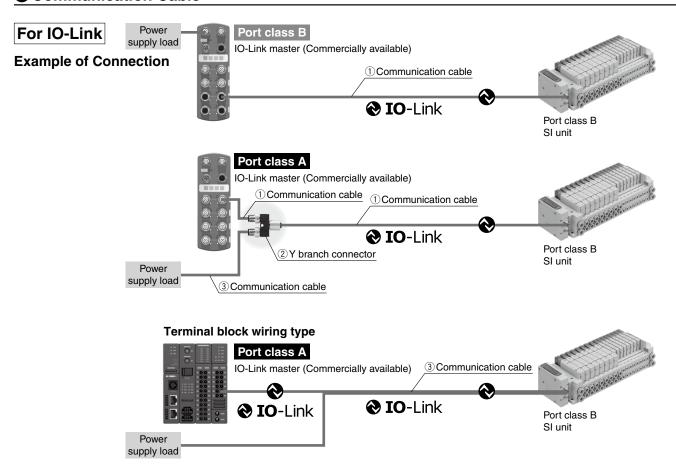
 Cable O.D.
 Ø6.5 mm

 Conductor nominal cross section
 0.34 mm²/AWG22

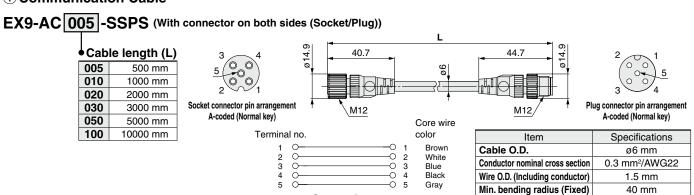
 Wire O.D. (Including insulator)
 1.55 mm

 Min. bending radius (Fixed)
 19.5 mm

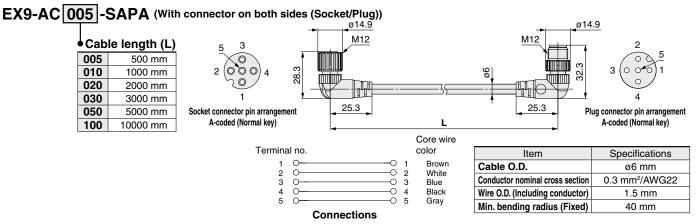
Communication Cable



1) Communication Cable



Connections



Communication Cable

For IO-Link

EX9-ACY02-S

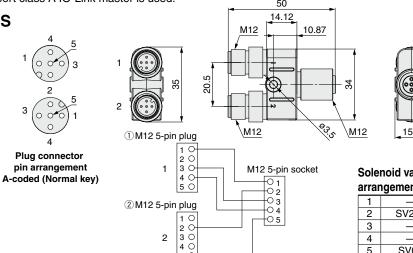
2 Y branch connector

This connector is used to supply power to the valve manifold by branching the IO-Link communication cable

2

5 C

in cases where a port class A IO-Link master is used.







Socket connector pin arrangement A-coded (Normal key)

Solenoid valve power supply cable side pin arrangement when using a branch connector

1	_	Unused	
2	SV24V	For solenoid valve	
3	_	Unused	
4	_	Unused	
5	SV0V	0 V for solenoid valve	

③ Communication cable

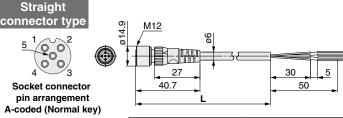
EX500-AP 050 - S

Cable length (L)

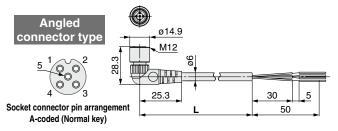
Connector specification

• ab. • i • i • i • i • i • i • i • i • i •		
	010	1000 mm
	050	5000 mm

S	Straight
Α	Angled



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



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



Made to Order

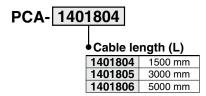
Cable length 10000 mm p. 23

Core wire Terminal no. color

— Brown: 18 to 30 VDC (Power supply for control)*1, Not connected*2 White: 24 VDC +10%/-5% (Solenoid valve power supply) — Blue: 0 V (Power supply for control)*1, Not connected*2 Black: 10-Link communication*1, Not connected*2 — Gray: 0 V (Solenoid valve power supply)

Connections (IO-Link)

- *1 When used as an IO-Link communication cable
- *2 When used as a solenoid valve power supply cable





pin arrangement

A-coded (Normal key)

44.5 50 M12 SPEEDCON

Tamain at a	_	Core
Terminal no	0.	colo
2		Whi
5		G

re wire Brown: 18 to 30 VDC (Power supply for control)*1, Not connected*2 nite: 24 VDC +10%/-5% (Solenoid valve power supply) Blue: 0 V (Power supply for control)*1, Not connected*2 ack: IO-Link communication*1, Not connected*2 Green/Yellow: 0 V (Solenoid valve power supply)

Item	Specifications		
Cable O.D.	ø5 mm		
Conductor nominal cross section	0.34 mm ² /AWG22		
Wire O.D. (Including insulator)	1.27 mm		
Min. bending radius (Fixed)	21.7 mm		

Connections (IO-Link)

*1 When used as an IO-Link communication cable *2 When used as a solenoid valve power supply cable

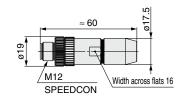


2 Field-wireable Communication Connector

Plug

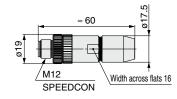
For CC-Link | For DeviceNet™ PCA-1075526 PCA-1075528





For PROFIBUS DP PCA-1075530





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)		

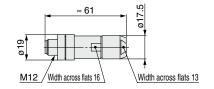
For EtherCAT | For PROFINET | For EtherNet/IP™

For Ethernet POWERLINK

PCA-1446553



D-coded



Applicable Cable

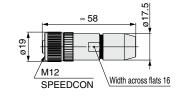
Item	Specifications		
Cable O.D.	4.0 to 8.0 mm		
Wire gauge (Stranded wire cross section)	0.14 to 0.34 mm ² /AWG26 to 22		

* The table above shows the specifications for the applicable cable. Adaptation for the connector may vary on account of the conductor construction of the electric wire.

Socket

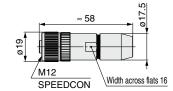
For CC-Link | For DeviceNet™ PCA-1075527 PCA-1075529





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 PROFIBUS DP | For DeviceNet™ | For EtherCAT | For PROFINET | For EtherNet/IP™ | For Ethernet POWERLINK

EX500-AP 050 - S

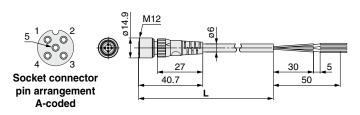
Cable length (L)

Connector specification

010	1000 mm
050	5000 mm

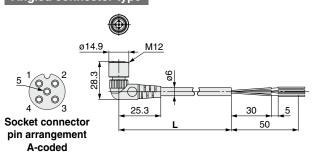
Straight A Angled

Straight connector type

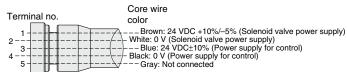


Item	Specifications	
Cable O.D.	ø6 mm	
Conductor nominal cross section	0.3 mm ² /AWG22	
Wire O.D. (Including insulator)	1.5 mm	
Min. bending radius (Fixed)	40 mm	

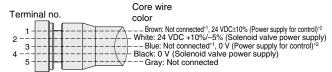
Angled connector type



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	



Connections (PROFIBUS DP/EtherCAT/PROFINET/Ethernet POWERLINK)



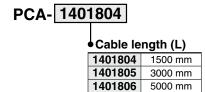
Connections (DeviceNet™, EtherNet/IP™) *2 For EtherNet/IP™

*1 For DeviceNet™



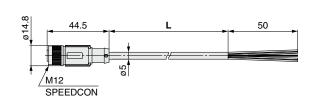
Cable length 10000 mm p. 23



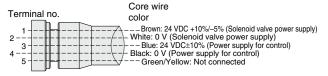




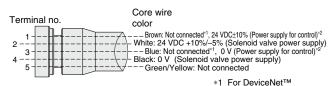
Socket connector pin arrangement A-coded



Item	Specifications	
Cable O.D.	ø5 mm	
Conductor nominal cross section	0.34 mm ² /AWG22	
Wire O.D. (Including insulator)	1.27 mm	
Min. bending radius (Fixed)	21.7 mm	



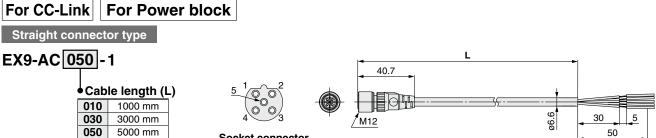
Connections (PROFIBUS DP/EtherCAT/PROFINET/Ethernet POWERLINK)



Connections (DeviceNet™, EtherNet/IP™)

*2 For EtherNet/IP™

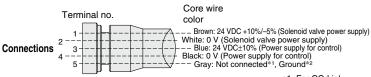
Power Supply Cable (For SI unit/For power block)



Socket connector pin arrangement B-coded

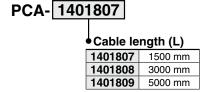
Item	Specifications	
Cable O.D.	ø6.6 mm	
Conductor nominal cross section	0.3 mm ² /AWG22	
Wire O.D. (Including insulator)	1.65 mm	
Min. bending radius (Fixed)	40 mm	





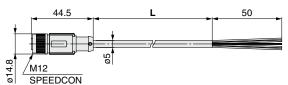
*1 For CC-Link

*2 For power block

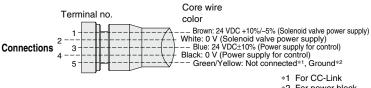




Socket connector pin arrangement B-coded



Item	Specifications	
Cable O.D.	ø5 mm	
Conductor nominal cross section	0.34 mm ² /AWG22	
Wire O.D. (Including insulator)	1.27 mm	
Min. bending radius (Fixed)	21.7 mm	



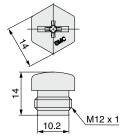
*2 For power block

Seal Cap (10 pcs.)

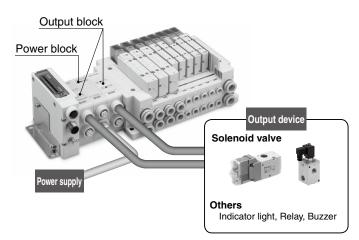
Use this on ports that are not being used for communication connector (M12 connector socket). Use of this seal cap maintains the integrity of the IP67 enclosure.

* Tighten the seal cap with the prescribed tightening torque. (For M12: 0.1 N·m)





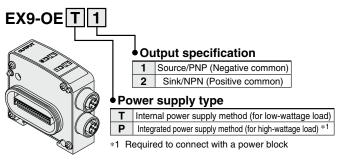
For M12 connector socket



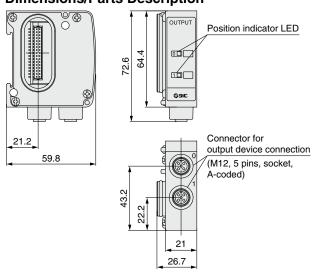
- Output devices other than valve manifold can be operated.
- By using the power block and output block for high watt load, operation up to 0.5 A/point can be performed.
- Possible to mount the output block and power block additionally between the SI unit and the solenoid valve (The surplus I/O points are used).
- 2 point outputs per output block (M12 connector)

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, https://www.smcworld.com

6 Output Block



Dimensions/Parts Description



Specifications

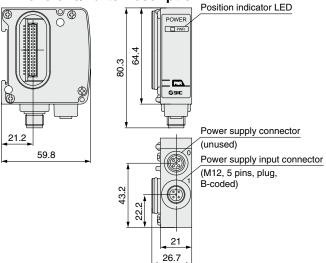
opeomodions .						
	Model	EX9-OET1	EX9-OET2	EX9-OEP1	EX9-OEP2	
Internal current consumption		40 mA or less				
	Output type	Source/PNP	Sink/NPN	Source/PNP	Sink/NPN	
	Output type	(Negative common)	(Positive common)	(Negative common)	(Positive common)	
	Number of outputs		2 ou		puts	
Output	itput Power supply		Internal power		Integrated power supply method	
	method	supply method		(Power block: supplied from EX9-PE1)		
	Output device supply voltage	24 VDC				
	Output device supply current	Max. 42 mA/point (1.0 W/point) Max. 0.5 A/point (12 W/po			nt (12 W/point)	
	Enclosure		IP	67		
Environmental resistance	Operating temperature range	−10 to 50°C				
resistance	Operating humidity range	35 to 85%RH (No condensation)		ation)		
Standards	Standards CE marking (EMC directive/RoHS directive), UL		e), UL (CSA)			
Weight	Veight 120 g					

7 Power Block

EX9-PE1



Dimensions/Parts Description



Specifications

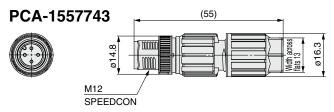
Model		EX9-PE1		
Connection block		Output block for high wattage load		
Connection block stations		Output block: Max. 8 stations		
Power supply for output	Power supply voltage	22.8 to 26.4 VDC		
and internal control	Internal current consumption	20 mA or less		
Supply current		Max. 3.1 A*1		
	Enclosure	IP67		
Environmental resistance	Operating temperature range	−10 to 50°C		
	Operating humidity range	35 to 85%RH (No condensation)		
Standards		CE marking (EMC directive/RoHS directive), UL (CSA		
Weight		120 g		
Enclosed parts		Seal cap (for M12 connector) 1 pc.		

^{*1} When using with 3.0 to 3.1 A, the ambient temperature should not exceed 40°C, and do not bundle the cable.



3 Connector for Output Block Wiring

Field-wireable connector for connecting an output device to an output block

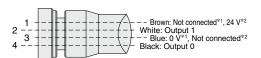


Applicable Cable

Item	Specifications			
Cable O.D.	3.5 to 6.0 mm			
Wire gauge (Stranded wire cross section)	0.14 to 0.34 mm ² /AWG26 to 22			
Core wire diameter (Including insulating material)	0.7 to 1.3 mm			

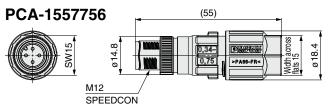






Connections

- When used for EX9-OE□1
- *2 When used for EX9-OE□2

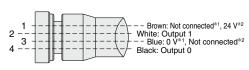




Approvision Carrie				
Item	Specifications			
Cable O.D.	4.0 to 8.0 mm			
Wire gauge (Stranded wire cross section)	0.34 to 0.75 mm ² /AWG22 to 18			
Core wire diameter (Including insulating material)	1.3 to 2.5 mm			



Plug pin arrangement



Connections

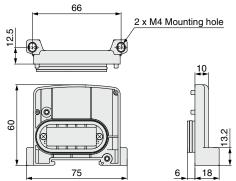
- *1 When used for EX9-OE□1
- *2 When used for EX9-OE□2

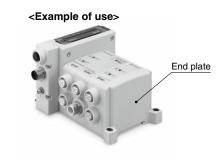
Refer to page 19 for the power supply cable for power block.

End Plate

Use when an output block is being used and a valve manifold is not connected.

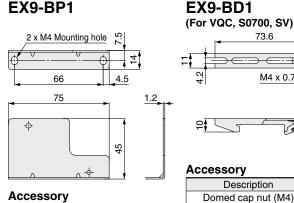
EX9-EA03





Bracket Plate/DIN Rail Mounting Bracket

A reinforcing brace used to mount an output block or power block onto an SI unit To prevent connection failure between products due to deflection, use this bracket plate whenever an output block or power block is mounted.



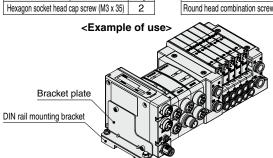
Description

Accessory

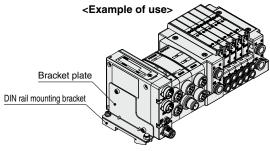
Description	Qty.
Domed cap nut (M4)	1
Round head combination screw (M4 x 8)	1
Round head combination screw (M4 x 10)	1

73.6

M4 x 0.7



Qty.



EX260 Series Made to Order

Please contact SMC for detailed specifications and lead times.



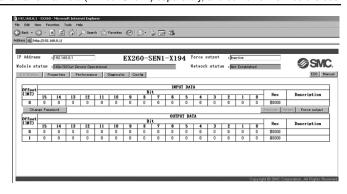
SI Unit

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

EtherNet/IP™ Web server function compatible

EX260-SEN1-X194

- Web server compatible: Can conduct a solenoid valve operation test (ON/OFF), check communication state, set QuickConnect™, etc.
- Applicable to the power supply taken from Rockwell Automation's safe output module with pulse test function
- Compliant with QuickConnect[™] class A specifications
- The gateway address is set to 192.168.□.001 when the IP address is set by the rotary switch.
- Dimensions are the same as those of the standard type.



Web server screen (Example)

Communication Cable

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



For DeviceNet™

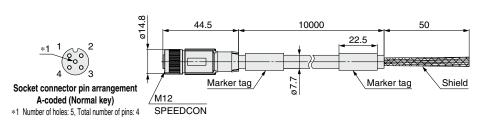
EX9-AC100 MJ -X12

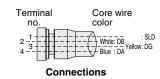
Applicable protocol

MJ CC-Link

DN DeviceNet™

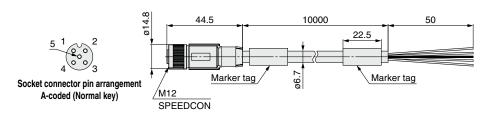
For CC-Link

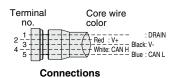




Item		Specifications
Cable O.D.		ø7.7 mm
Conductor nominal	Data pair	0.5 mm ² /AWG20
cross section	Drain	0.34 mm ² /AWG22
Wire O.D. (Including	insulator)	2.55 mm
Min. bending radio	us (Fixed)	77 mm

For DeviceNet™





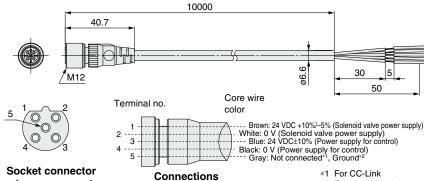
Item		Specifications
Cable O.D.		ø6.7 mm
Conductor nominal	Power pair	0.34 mm ² /AWG22
cross section	Data pair	0.25 mm ² /AWG24
Wire O.D. (Including	Power pair	1.4 mm
insulator)	Data pair	2.05 mm
Min. bending radio	us (Fixed)	67 mm
Wire O.D. (Including insulator)	Power pair Data pair	1.4 mm 2.05 mm

Power Supply Cable

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

For CC-Link For Power block

EX9-AC100-1-X16



Socket connector pin arrangement B-coded (Reverse key)

*2 For power block

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

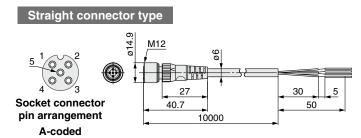
For PROFIBUS DP For DeviceNet™ For EtherCAT For PROFINET For EtherNet/IP™

For Ethernet POWERLINK For IO-Link

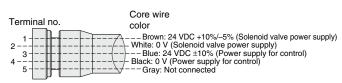


• Connector specification

S	Straight
Α	Angled

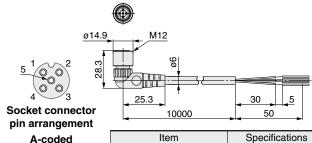


Item	Specifications
Cable O.D.	ø6 mm
Conductor nominal cross section	0.3 mm ² /AWG22
Wire O.D. (Including insulator)	1.5 mm
Min. bending radius (Fixed)	40 mm

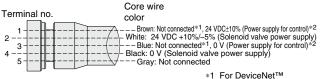


Connections (PROFIBUS DP/EtherCAT/PROFINET/Ethernet POWERLINK)

Angled connector type



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	



Connections (DeviceNet™, EtherNet/IP™)

*2 For EtherNet/IP™

	Core wire
Terminal no.	color
2	
4-3	

Connections (IO-Link) *1 When used as an IO-Link communication cable *2 When used as a solenoid valve power supply cable





EX260 Series Specific Product Precautions

Be sure to read this before handling the products. Refer to the back cover for safety instructions. For fieldbus system precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smcworld.com

Wiring

⚠ Caution

1. Select connectors that are Ø16 or less if mounting valve manifolds directly using field-wireable connectors for SI unit power supply wiring.

Using large diameter connectors causes interference with the mounting surface.

The following cables with connectors are recommended.

- For EX260-SPR□/-SDN□/-SEC□/-SPN□/-SEN□/-SPL□
 - <Cable with connector>
 - EX500-AP□□□-□
 - PCA-1401804/-1401805/-1401806
- For EX260-SMJ□
 - <Cable with connector>
 - EX9-AC□□□-1
 - PCA-1401807/-1401808/-1401809

Operating Environment

⚠ Caution

 Select the proper type of enclosure according to the operating environment.

IP67 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) Appropriately mount 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.

When the enclosure is IP40, do not use in an operating environment or atmosphere where it may come in contact with corrosive gas, chemical agents, seawater, water, or water vapor. When connected to the EX260-SPR5/6/7/8, manifold enclosure is IP40.

Adjustment / Operation

⚠ Caution

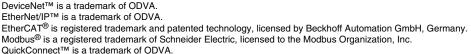
1. For details on programming and address setting, refer to the manual from the PLC manufacturer.

The content of programming related to protocol is designed by the manufacturer of the PLC used.

2. For the EX260-SPN□, the side of the SI unit may become hot.

It may cause burns.







⚠ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "Caution," "Warning" or "Danger." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)*1), and other safety regulations.

Caution: Caution indicates a hazard with a low level of risk which, If not avoided, could result in minor or moderate injury.

Warning: Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

⚠ Danger: Danger if not avoided, will result in death or serious injury. **Danger** indicates a hazard with a high level of risk which, *1) ISO 4414: Pneumatic fluid power - General rules relating to systems.

ISO 4413: Hydraulic fluid power – General rules relating to systems.

IEC 60204-1: Safety of machinery - Electrical equipment of machines. (Part 1: General requirements)

ISO 10218-1: Manipulating industrial robots - Safety.

⚠Warning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalog information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

2. Only personnel with appropriate training should operate machinery and equipment.

The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.

3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.

- 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
- 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
- 3. Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.
- 4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.
 - 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
 - 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog.
 - 3. An application which could have negative effects on people, property, or animals requiring special safety analysis.
 - 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

⚠ Caution

1. The product is provided for use in manufacturing industries.

The product herein described is basically provided for peaceful use in manufacturing industries.

If considering using the product in other industries, consult SMC beforehand and exchange specifications or a contract if necessary. If anything is unclear, contact your nearest sales branch.

Limited warranty and Disclaimer/ **Compliance Requirements**

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".

Read and accept them before using the product.

Limited warranty and Disclaimer

- 1. The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first.*2) Also, the product may have specified durability, running distance or
 - replacement parts. Please consult your nearest sales branch.
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- 3. Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.
 - 2) Vacuum pads are excluded from this 1 year warranty.

A vacuum pad is a consumable part, so it is warranted for a year after it is delivered.

Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

⚠ Caution

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country. Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

Revision History

Edition B * EtherNet/IP™ has been added to applicable Fieldbus protocols.

Edition C * The IO-Link compatible EX260-SIL1 has been added.

* Accessories and made-to-order specifications have been added.

* "How to Order Manifold" and "Dimensions" pages have been deleted.

* Number of pages has been decreased from 52 to 28.

XU

Fieldbus System *EX260 Series*SI Unit (F ROHS)

LAN cable connectable RJ45 communication connectors

■ Communication protocol: EtherNet/IP™

■ Number of outputs: 32

LAN cable*1 connectable RJ45 communication connectors



EtherNet/IP™ is a trademark of ODVA. QuickConnect™ is a trademark of ODVA.

■ Applicable Valve Series

Series		Flow rate characteristics (4/2 → 5/3)		Max. number	Power consumption	Applicable
Serie	S	C [dm³/(s⋅bar)]	b	of solenoids	[w]	cylinder size
	JSY1000	0.91	0.48		0.2 (With power-saving circuit)	ø40
JSY Series*2	JSY3000	2.77	0.27	32	0.4 (Standard)	ø50
	JSY5000 6.59 0.22		0.1 (With power-saving circuit)	ø80		
	SY3000 1.6 0.19			ø50		
SY Series	SY5000	3.6	0.17	32	0.35 (Standard) 0.1 (With power-saving circuit)	ø63
	SY7000	5.9	0.20			ø80
	VQC1000	1.0	0.30	24	0.4 (Standard)	ø40
VQC Series*2	VQC2000	3.2	0.30			ø63
	VQC4000	7.3	0.38		0.95 (Standard)	ø160
	VQC5000 17 0.31		0.4 (Low-wattage type)	ø180		

^{*2} The assembly of JSY and VQC series valves should be requested separately by the customer. Specify "without SI unit" and "positive common" or "non-polar" for the valve manifold specifications.

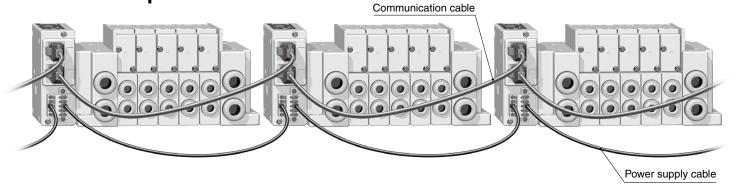


*1 CAT5 or higher

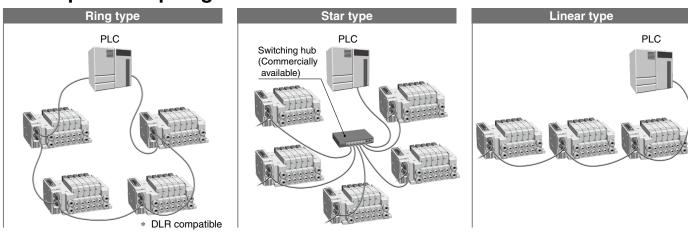
Enclosure: IP20

EX260-SEN2-X205

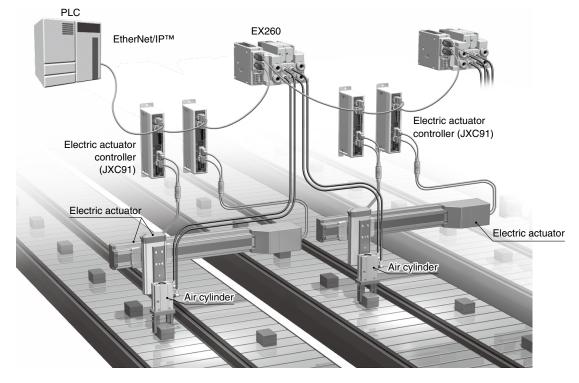
■ Daisy-chain wiring of communication cables and power supply cables is possible.



Compatible Topologies







How to Order SI Units





Communication protocol

EN EtherNet/IP™

otocol • Connector specification

X205

Communication connector: RJ45 Power connector: Spring type connector

Output specification

2 32 outputs, NPN (Positive common)/Sink

Specifications

Item		Specifications		
Protocol		EtherNet/IP™ Volume 1 (Edition 3.25) Volume 2 (Edition 1.23)		
Transmission medium		Standard Ethernet cable (CAT5 or higher) (100BASE-TX)		
Transm	ission speed	100 Mbps/10 Mbps (Automatic negotiation)		
Transmission method		Full duplex/Half duplex (Automatic negotiation)		
Device information		Vendor ID: 7 (SMC Corp.) Device type: 27 (Pneumatic Valve)		
Applicable function		QuickConnect™ DLR		
EDS file)	ex260_sen2_X205_24_v*.eds		
	Number of outputs	32		
	Output type	Sink/NPN (Positive common)		
Output	Connected load	Solenoid valve with surge voltage suppressor of 24 VDC and 1.5 W or less (manufactured by SMC)		
	Power supply for	22.8 to 26.4 VDC		
	solenoid valve	2.0 A or less, according to the solenoid valve station specification		
	Residual voltage	0.4 VDC or less		
Power supply		21.6 to 26.4 VDC		
for control		0.1 A or less		
Enclosure		IP20 (with manifold assembled)		
Weight		200 g or less (including accessories)		

EtherNet/IP™ communication connector BUS OUT: RJ45 8 pins, socket



No.	Designation	No.	Designation
1	Tx+	5	_
2	Tx-	6	Rx-
3	Rx+	7	_
4	_	8	_

EtherNet/IP™ communication connector BUS IN: RJ45 8 pins, socket



No.	Designation	No.	Designation
1	Tx+	5	_
2	Tx-	6	Rx-
3	Rx+	7	_
4	-	8	-

Accessory

Description	Qty.
Hexagon socket head cap screw (M3 x 30)	2
RJ45 cap	1
Power connector	1

Power connector PWR: 5 pins, socket

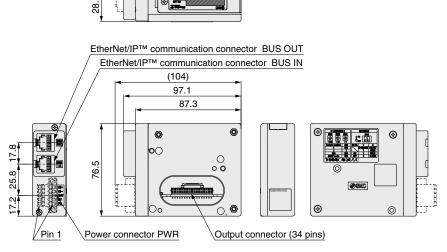


No.	Designation	Function	No.	Designation	Function
1	1 FE Grounding		4	SIOV	0 V for control unit
2 SV0V 0 V for		0 V for solenoid valve	5	SI24V	+24 V for control unit
3	SV24V	+24 V for solenoid valve			

Applicable wire for power supply connector

Wire gauge (Solid cable/Flexible cable) 0.2 to 1.5 mm²/AWG24 to 16

Dimensions



⚠ Caution

- The dimensions when combined with the valve manifold are the same as the dimensions of the valve manifold with a standard EX260 series unit mounted.
- · For the JSY and VQC series, order the valve manifold separately. Specify "without SI unit" and "positive common" or "non-polar" for the valve manifold specifications.

LED Indicator

LED	LED Status	Details		
NS	OFF	Power is not being supplied or the IP address is not set.		
	Green LED is ON	EtherNet/IP™ communication established		
	Green LED is flashing	EtherNet/IP™ communication not established		
	Red LED is flashing	EtherNet/IP™ connection time out		
	Red LED is ON	IP duplicated		
	OFF	Power is not being supplied.		
	Green LED is ON	Operating normally		
MS	Green LED is flashing	Setting error		
	Red LED is flashing	Recoverable error		
	Red LED is ON	Unrecoverable error		
	OFF	BUS IN side: No link, No activity		
L/A1	Green LED is ON	BUS IN side: Link, No activity		
	Green LED is flashing	BUS IN side: Link, Activity		
	OFF	BUS OUT side: No link, No activity		
L/A2	Green LED is ON	BUS OUT side: Link, No activity		
	Green LED is flashing	BUS OUT side: Link, Activity		
	Yellow LED is ON	Power is being supplied to the valve.		
PWR(V)	OFF	Power is not being supplied to the valve or is outside the tolerance range (19 V or less).		

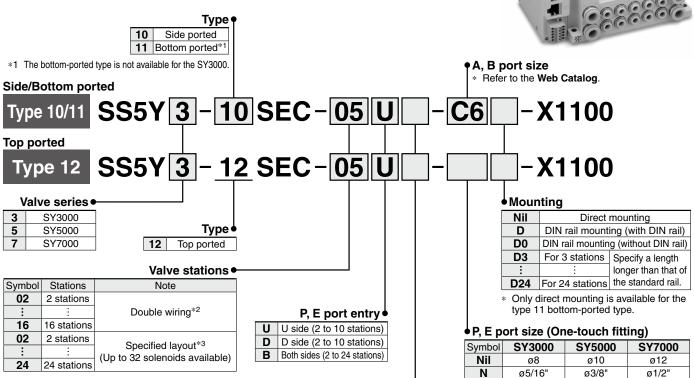


EX260-SEN2-X205



SY3000/5000/7000 Series

How to Order Manifold



SUP/EXH block assembly •

Nil	Internal pilot
S Internal pilot, Built-in silencer	
R	External pilot

- * For the type 12 top-ported type, the P and E ports are only available on the U and D sides for the built-in silencer type. The silencer exhaust port is located on the opposite side of the P and E port entry. (Example: When the P and E port entry is on the D side, the silencer exhaust port is on the U side.) The 3/5(E) port on the silencer mounting side of type 10/11/12 is plugged.
- When the built-in silencer type is used, keep the exhaust port from coming into direct contact with water or other liquids.
- *2 Double wiring: 2-position single, double, 3-position, and 4-position valves can be used on all manifold stations.

For N, sizes are in inches.

- Use of a 2-position single solenoid will result in an unused control signal. If this is not desired, order with a specified layout.
- *3 Double wiring is normally used for all the wiring of the manifold. If other wiring is required, specify on the manifold specification sheet.
- * Valves do not come assembled for order no. "SS5Y -- SEC- -- -- X1100." Specify on the manifold specification sheet separately to request assembly.
- * Produced upon receipt of order

How to Order Valves

