EX260 Series

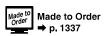
How to Order SI Units

EX260-SPR1

Communication protocol •

Symbol	Protocol	Number of outputs	Output polarity	Communication connector	Manifold symbol	Applicable manifold/Vacuum unit	
DN1			Source/PNP (Negative common)		QAN		
DN2	DeviceNet®	32	Sink/NPN (Positive common)		QA		
DN3	Devicemen	16	Source/PNP (Negative common)	M12	QBN		
DN4			Sink/NPN (Positive common)	1	QB		
PR1		32	Source/PNP (Negative common)	M12	NAN		
PR2		32	Sink/NPN (Positive common)		NA		
PR3		16	Source/PNP (Negative common)		NBN		
PR4	PROFIBUS DP	16	Sink/NPN (Positive common)		NB		
PR5	PHOFIBUS DP	32	Source/PNP (Negative common)		NCN		
PR6		32	Sink/NPN (Positive common)	D-sub*1	NC		
PR7		16	Source/PNP (Negative common)	D-sub	NDN		
PR8		16	Sink/NPN (Positive common)		ND		
MJ1		32	Source/PNP (Negative common)	- M12	VAN	SY3000/5000/7000	
MJ2	CC-Link	32	Sink/NPN (Positive common)		VA	JSY1000/3000/7000	
MJ3	OO-LIIK	16	Source/PNP (Negative common)		VBN	VQC1000/2000/4000/5000	
MJ4		10	Sink/NPN (Positive common)		VB	S0700	
EC1		32 16	Source/PNP (Negative common)	- M12	DAN	SV1000/2000/3000 ZK2□A	
EC2	EtherCAT		Sink/NPN (Positive common)		DA	ZIZLA	
EC3	EllielCAT		Source/PNP (Negative common)		DBN		
EC4			Sink/NPN (Positive common)		DB		
PN1		32 16	Source/PNP (Negative common)		FAN		
PN2	PROFINET		Sink/NPN (Positive common)	M12	FA		
PN3	THOTINE		Source/PNP (Negative common)]	FBN		
PN4		10	Sink/NPN (Positive common)		FB		
EN1		32	Source/PNP (Negative common)		EAN		
EN2	EtherNet/IP™	- OZ	Sink/NPN (Positive common)	M12	EA		
EN3	Eulenveun	16	Source/PNP (Negative common)] """	EBN		
EN4		16	Sink/NPN (Positive common)		EB		
PL1	Ethernet	32	Source/PNP (Negative common)	M12	GAN		
PL3	POWERLINK	16	Codice/1141 (14egative continon)	WITZ	GBN		
IL1	I O-Link	32	Source/PNP (Negative common)	M12	KAN	SY3000/5000/7000 JSY1000/3000/5000 VQC1000/2000/4000/5000 ZK2□A	

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



EtherNet/IPTM LAN cable connectable RJ45 communication connectors

EtherNet/IPTM Web server function compatible

Safety communication compliant SI unit

EX260-F <u>P\$1</u>

Communication protocol •

Symbol	Protocol	Number of outputs	Output polarity	Communication connector	Manifold symbol	Applicable manifold
PS1	PROFIsafe	32	Source/PNP (Negative common)	M12	FPN	SY3000/5000/7000 JSY1000/3000/5000 VQC1000/2000/4000/5000

^{*} The use of validated products may be required for valve manifolds used in the safety-related parts of equipment which is compliant with safety standard ISO 13849. For validated products, please contact your SMC sales representative.

1320



 $[\]ast~$ For "How to Order Manifold Assembly," refer to the Web Catalog of each valve.

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*4				
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)				
resistance	Withstand voltage	500 VAC for 1 minute between terminals and housing				
	Insulation resistance	10 MΩ or more (500 VDC measured via megohmmeter) between terminals and housing				
Standards		CE/UKCA marking, UL (CSA) compliant				
Weight		200 g				
Accessories	Mounting screw	2 pcs.				
	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□, 18 to 30 VDC for the EX260-SIL1, and 20.4 to 28.8 VDC for the EX260-FPS1.

 12 IP40 applies to EX260-SPR5/6/7/8

 3 Not provided for EX260-SPR5/6/7/8

 4 200 mA or less for the EX260-FPS1

Model		EX260-SPR1/3	EX260-SPR2/4	EX260-SPR5/7	EX260-SPR6/8	EX260-SDN1/3	EX260-SDN2/4	
	Protocol		PROFI	DeviceNet®				
Applicable system	Version*1		DP		Volume 1 (Edition 3.5) Volume 3 (Edition 1.5)			
	Configuration file*3		GSI) file		EDS 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	
Applicable function		<u> </u>				QuickConnect™		
Communic	cation 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 kbps		
Communication of	connector specification	M12 D-sub*4				M12		
Terminating	resistor switch	Bui lt-i n No			ne			
	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)	
Outmut	Number of outputs	SPR1: 32 points SPR3: 16 points	SPR2: 32 points SPR4: 16 points	SPR5: 32 points SPR7: 16 points	SPR6: 32 points SPR8: 16 points	SDN1: 32 points SDN3: 16 points	SDN2: 32 points SDN4: 16 points	
Output	Load	Solenoid valve with surge voltage suppressor 24 VDC, 1.5 W or less (SMC)						
	Supplied voltage							
	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	SPR6: Max. 2.0 A SPR8: Max. 1.0 A	SDN1: Max. 2.0 A SDN3: Max. 1.0 A	SDN2: Max. 2.0 A SDN4: Max. 1.0 A	

Model		EX260-SMJ1/3	EX260-SMJ2/4	EX260-SEC1/3	EX260-SEC2/4	EX260-SPN1/3	EX260-SPN2/4		
	Protocol	CC-	Link	Ether	EtherCAT*2		NET*2		
Applicable system	Version*1	Ver.	1.10 Confor Test Rec			PROFINET Specification Version 2.2			
	Configuration file*3	CSP	+ fi l e	XML file		GSD file			
I/O occupation area (Inputs/Outputs)		SMJ1: 32/32 SMJ3: 32/32 (1 station, remote I/O stations)	SMJ2: 32/32 SMJ4: 32/32 (1 station, remote I/O stations)	SEC1: 0/32 SEC3: 0/16	SEC2: 0/32 SEC4: 0/16	SPN1: 0/32 SPN3: 0/16	SPN2: 0/32 SPN4: 0/16		
Applicable function			_	-		FSU, MRP			
Communication speed		156 k/625 k/2.5	M/5 M/10 Mbps	100 Mbps*2					
Communication of	connector specification	M12							
Terminating resistor switch		Bui	lt-in	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)		
	Number of outputs	SMJ1: 32 points SMJ3: 16 points	SMJ2: 32 points SMJ4: 16 points	SEC1: 32 points SEC3: 16 points	SEC2: 32 points SEC4: 16 points	SPN1: 32 points SPN3: 16 points	SPN2: 32 points SPN4: 16 points		
Output	Load	Solenoid valve w	vith surge voltage sup	pressor 24 VDC, 1.5	W or less (SMC)	Solenoid valve with surge voltage suppressor 24 VDC, 1.0 W or less (SMC)			
	Supplied voltage			24 VDC		*			
	Supplied current	SMJ1: Max. 2.0 A SMJ3: Max. 1.0 A	SMJ2: Max. 2.0 A SMJ4: Max. 1.0 A	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		

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

 12 Use a CAT5 or higher communication cable for EtherCAT, PROFINET, Ethernet/IP™, and Ethernet POWERLINK.

 13 The configuration file can be downloaded from the SMC website: https://www.smcworld.com

 14 Enclosure is IP40 when the communication connector is D-sub.



EX260 Series

Specifications

Model		EX260-SEN1/3	EX260-SEN2/4	EX260-SPL1	EX260-SPL3	EX260-SIL1	EX260-FPS1	
	Protocol	EtherNe		Ethernet POWERLINK		IO-Link	PROFINET/ PROFIsafe*2	
Applicable system	Version*1	Volume 1 (E Volume 2 (E		EPSG DS 301 Version 1.2.0		V1.1	PROFINET Specification Version 2.3 PROFIsafe Specification Version 2.4	
	Configuration file*3	EDS file		XDD file		IODD file	GSD file	
I/O occupation area (Inputs/Outputs)		SEN1: 16/32 SEN3: 16/16	SEN2: 16/32 SEN4: 16/16	16/32	16/16	0/32 16/32*4	0/32*5	
Applicable function		QuickConnect™, DLR		_		_	FSU, Shared Device, MRP	
Communic	cation speed	10 M/100 Mbps*2		100 Mbps*2		COM3/COM2*4	100 Mbps*2	
Communication o	connector specification	M12						
Terminating	resistor switch	None (Not required)						
	Output type	Source/PNP (Negative common)	Sink/NPN (Positive common)	Source/PNP (Negative common)				
	Number of outputs	SEN1: 32 points SEN3: 16 points	SEN2: 32 points SEN4: 16 points	32	16	32		
Output	Load			oid valve with surge voltage r 24 VDC, 1.5 W or less (SMC)			Solenoid valve with surge voltage suppressor 24 VDC, 0.95 W or less (SMC)	
	Supplied voltage			24 VDC				
	Supplied current	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	Max. 1.3 A	

^{*1} Please note that the version is subject to change.
*2 Use a CAT5 or higher communication cable for PROFINET, PROFIsafe, 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.
*5 In addition, it occupies input 4 bite/output 5 bite for safety.

Fieldbus System For Output **EX260 Series**

D-sub communication connector type

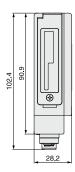
Dimensions

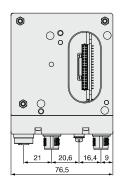
M12 communication connector type

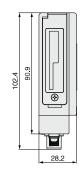
For PROFIBUS DP For DeviceNet®

For CC-Link For EtherCAT For PROFINET

For EtherNet/IP™ For Ethernet POWERLINK

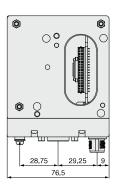






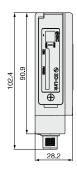
(EX260-SPR5/6/7/8)

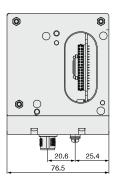
For PROFIBUS DP



M12 communication connector type

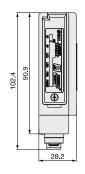
For IO-Link



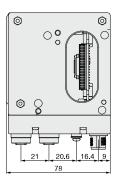


M12 communication connector type

For PROFIsafe

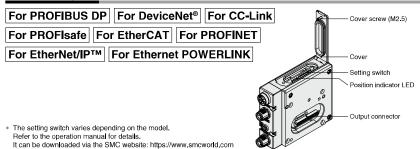


SMC

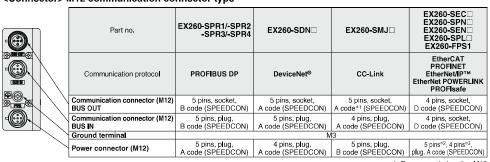


EX260 Series

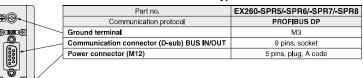
Parts Description



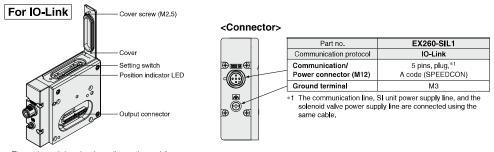
<Connector> M12 communication connector type



<Connector> D-sub communication connector type



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



* 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 1324

SMC

Fieldbus System For Output **EX260** Series

LED Indicator

