

# Fieldbus System *EX260 Series*

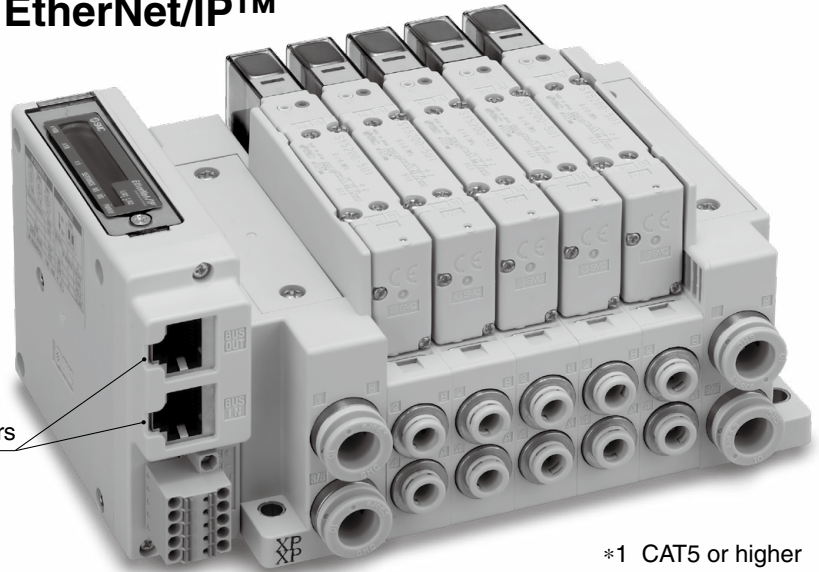
## SI Unit



### LAN cable connectable RJ45 communication connectors

- Communication protocol: EtherNet/IP™
- Number of outputs: 32

LAN cable\*1 connectable  
RJ45 communication connectors



#### ■ Trademark

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

\*1 CAT5 or higher  
\* Enclosure: IP20

### ■ Applicable Valve Series

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

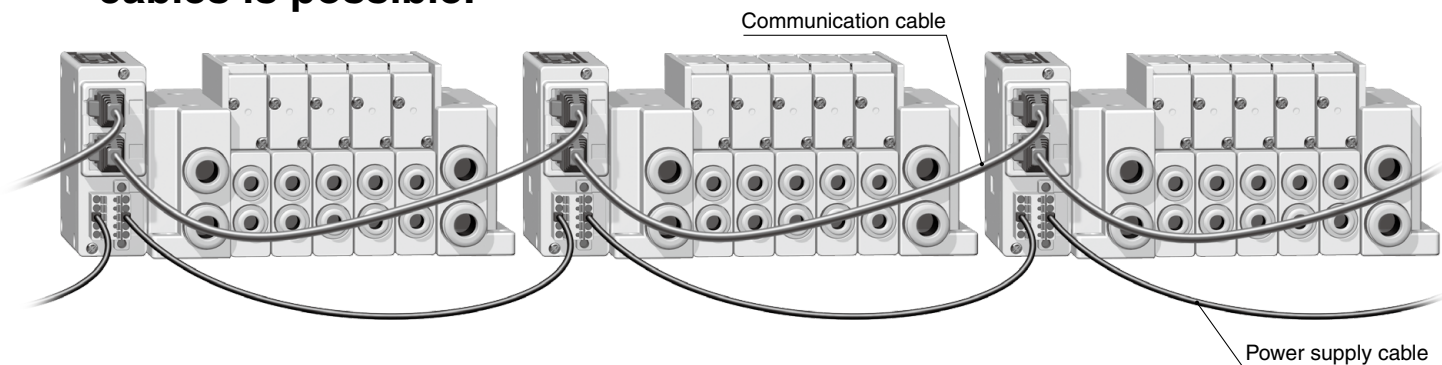
# EX260-SEN2-X205



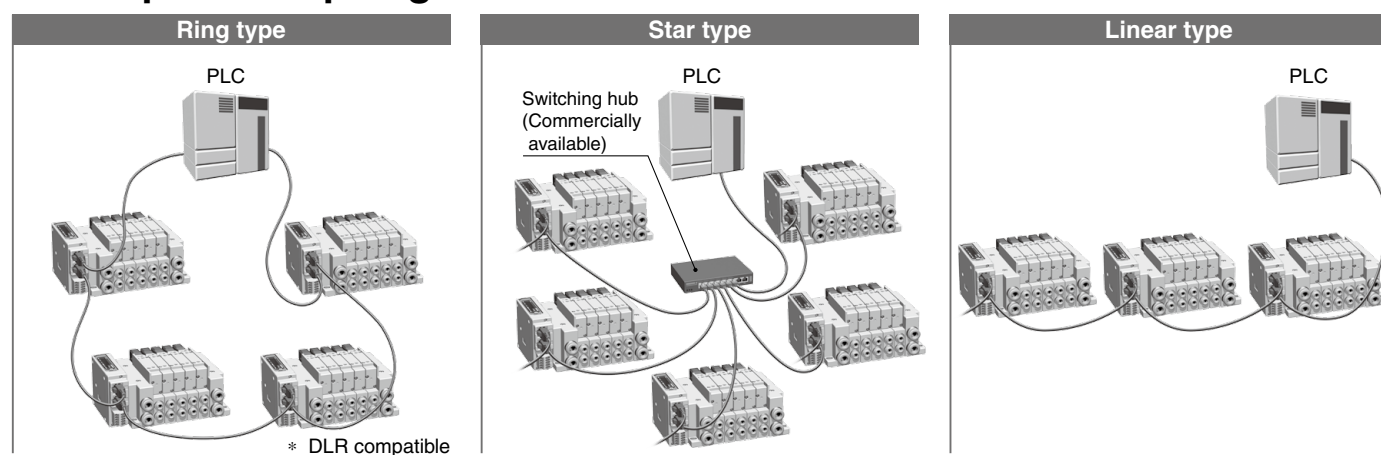
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# EX260-SEN2-X205

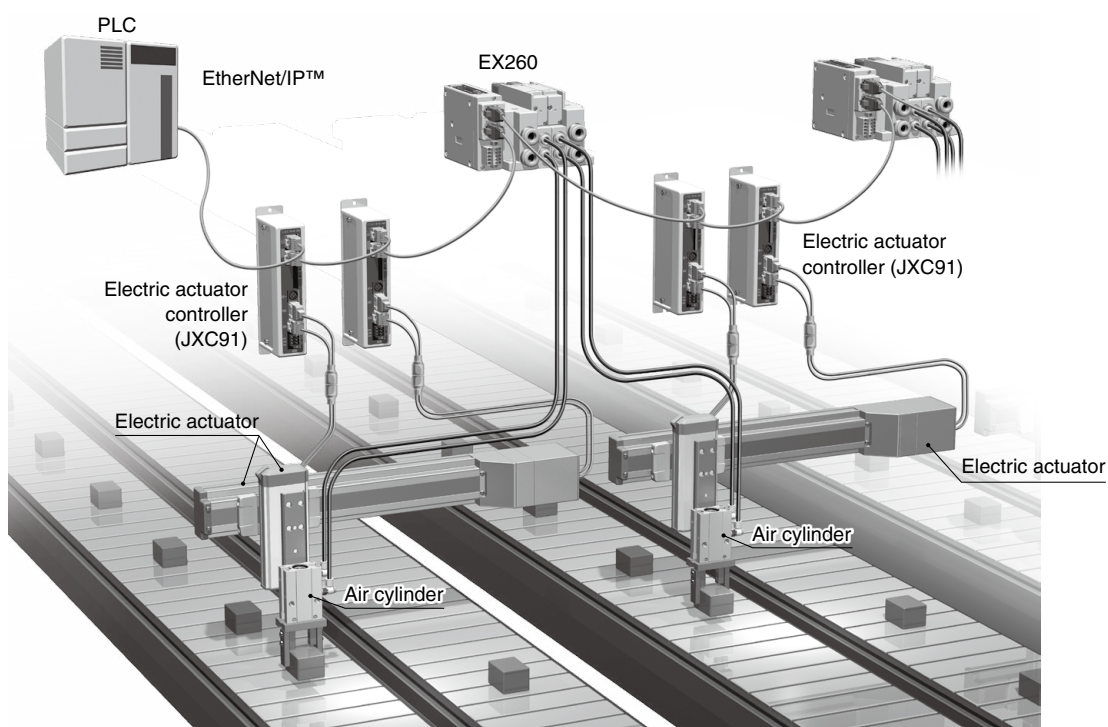
- Daisy-chain wiring of communication cables and power supply cables is possible.



## Compatible Topologies



- Both air and electric systems can be constructed with RJ45 communication cables.



## How to Order SI Units



# EX260-S EN2-X205

Communication protocol

EN EtherNet/IP™

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)
Transmission 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
Output	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 solenoid valve
Output	22.8 to 26.4 VDC
	2.0 A or less, according to the solenoid valve station specification
Output	Residual voltage
	0.4 VDC or less
Power supply for control	21.6 to 26.4 VDC 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

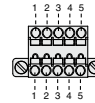


No.	Designation	No.	Designation
1	Tx+	5	-
2	Tx-	6	Rx-
3	Rx+	7	-
4	-	8	-

### Accessory

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

Power connector PWR: 5 pins, socket

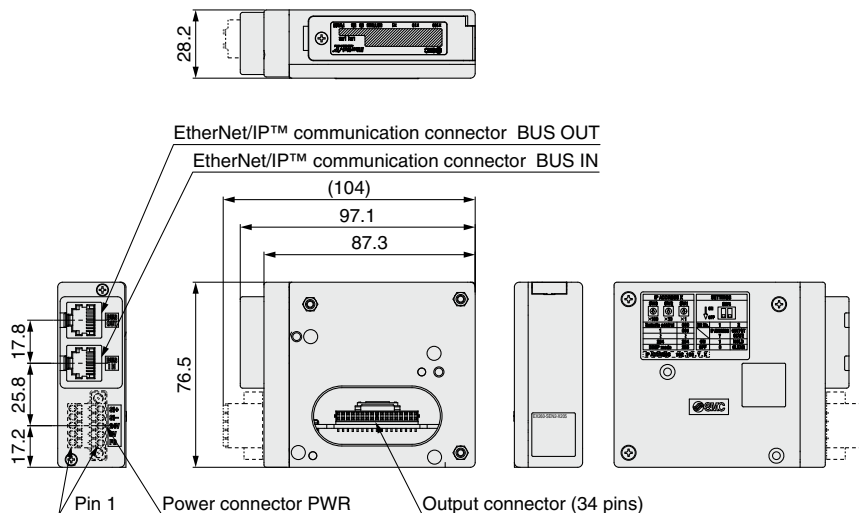


No.	Designation	Function	No.	Designation	Function
1	FE	Grounding	4	SI0V	0 V for control unit
2	SV0V	0 V for solenoid valve	5	SI24V	+24 V for control unit
3	SV24V	+24 V for solenoid valve			

Applicable wire for power supply connector

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



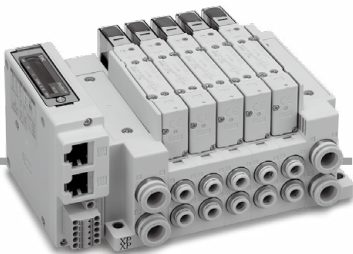
### LED Indicator

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
MS	OFF	Power is not being supplied.
	Green LED is ON	Operating normally
	Green LED is flashing	Setting error
	Red LED is flashing	Recoverable error
L/A1	Red LED is ON	Unrecoverable error
	OFF	BUS IN side: No link, No activity
	Green LED is ON	BUS IN side: Link, No activity
L/A2	Green LED is flashing	BUS IN side: Link, Activity
	OFF	BUS OUT side: No link, No activity
	Green LED is ON	BUS OUT side: Link, No activity
PWR(V)	Green LED is flashing	BUS OUT side: Link, Activity
	Yellow LED is ON	Power is being supplied to the valve.
	OFF	Power is not being supplied to the valve or is outside the tolerance range (19 V or less).

### 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.

# EX260-SEN2-X205



SY3000/5000/7000 Series

## How to Order Manifold

Type

10	Side ported
11	Bottom ported*1

Side/Bottom ported

Type 10/11

SS5Y 3 - 10 SEC - 05 U - C6 - X1100

Top ported

Type 12

SS5Y 3 - 12 SEC - 05 U - - X1100

Valve series

3	SY3000
5	SY5000
7	SY7000

Type

12	Top ported
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Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring*2
:	:	
16	16 stations	Specified layout*3 (Up to 32 solenoids available)
02	2 stations	
:	:	
24	24 stations	

P, E port entry

U	U side (2 to 10 stations)
D	D side (2 to 10 stations)
B	Both sides (2 to 24 stations)

SUP/EXH block assembly

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

A, B port size

\* Refer to the Web Catalog.

Mounting

Nil	Direct mounting	
D	DIN rail mounting (with DIN rail)	
D0	DIN rail mounting (without DIN rail)	
D3	For 3 stations	Specify a length longer than that of the standard rail.
:	:	
D24	For 24 stations	

\* Only direct mounting is available for the type 11 bottom-porting type.

P, E port size (One-touch fitting)

Symbol	SY3000	SY5000	SY7000
Nil	ø8	ø10	ø12
N	ø5/16"	ø3/8"	ø1/2"

\* For N, sizes are in inches.

\* For the type 12 top-porting 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.  
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

SY

Enter the standard product number.

- 5 U

Enter the standard product number.

1 -

Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification
R	—	●	Non-polar
U	●		
S	—		Positive common
Z	●		