

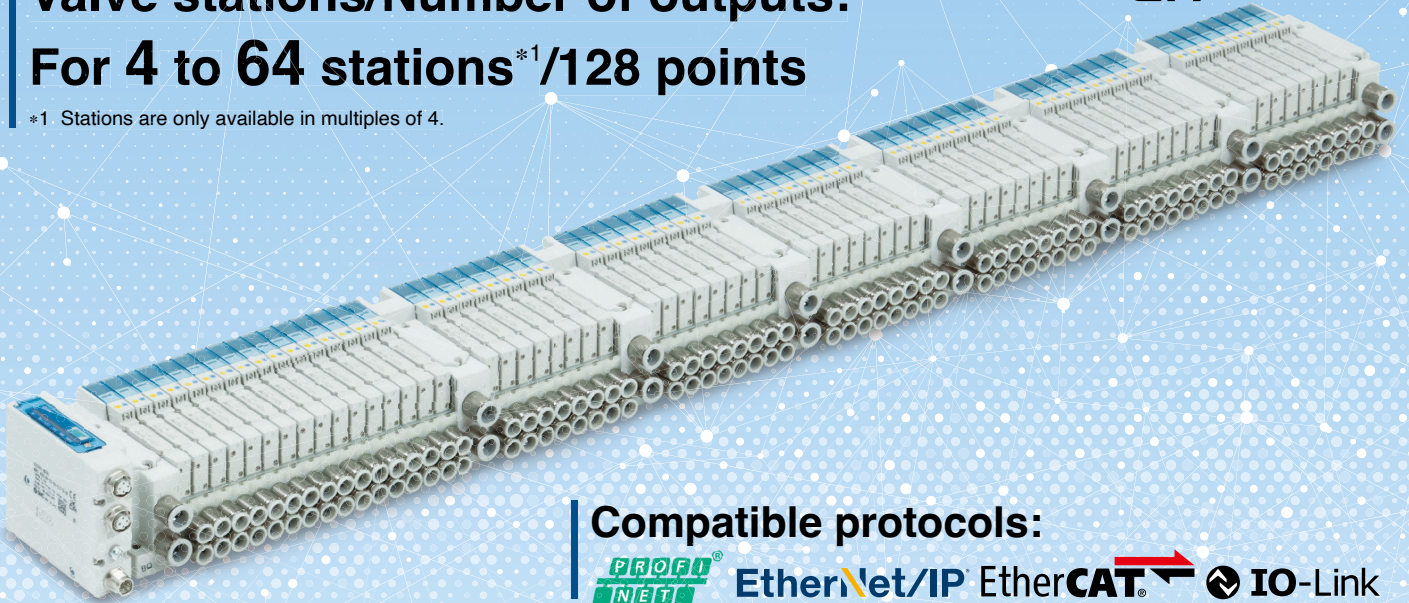


64-station Compatible Manifold

Plug-in Compact 5-Port Solenoid Valve

Valve stations/Number of outputs:
For 4 to 64 stations*¹/128 points

*1. Stations are only available in multiples of 4.



Compatible protocols:

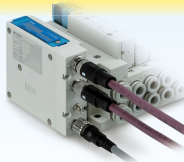
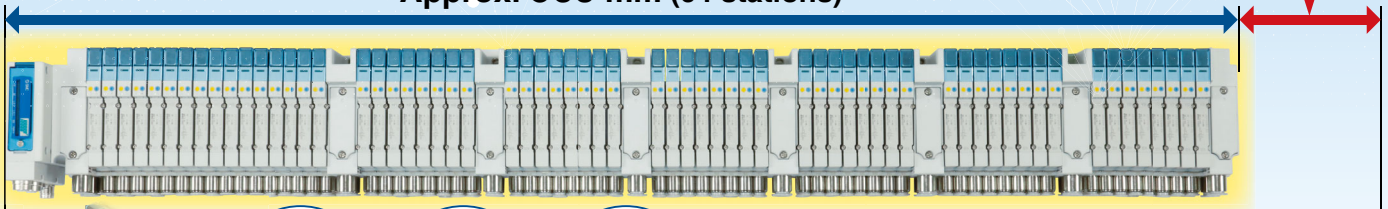


**Space saving, Reduced number of SI units,
Reduced wiring and wiring work**

- Installation space: Reduced by up to 110 mm

**110 mm shorter
(10 % reduction)**

Approx. 960 mm (64 stations)



Number of SI units
1 set

Power supply line
1 line

Communication line (IN/OUT)
2 lines

Approx. 1070 mm (16 stations x 4 manifolds)



Number of SI units
4 sets

Power supply line
4 lines

Communication line (IN/OUT)
8 lines

JSY3000-L Series

JSY3000-L Series Type 10

Plug-in Connector Connecting Base

Manifold Specifications

Wiring	Serial wiring EX260 for 64-station compatible manifold	
Manifold type	Plug-in connector connecting base (64-station compatible manifold)	
SUP/EXH port type	Common SUP/EXH (Common for the 3/5 port)	
Valve stations	4 to 64 stations	
Applicable connector	—	
Internal wiring	Negative common	
Port size	1(P), 3/5(E) port	Ø 10 One-touch fitting
	4(A), 2(B) port	Ø 4 One-touch fitting, Ø 6 One-touch fitting, Ø 8 One-touch fitting
Enclosure (Based on IEC 60529)	IP67	

Formula for 64-station Compatible Manifold Weight*1 (Unit: g)

$$W = 47 \times n1 + 473 + 138 \times n2$$

n1: Valve stations*2

n2: Number of intermediate SUP/EXH blocks

*2 Stations are only available in multiples of 4, from 4 stations to 64 stations.

*1 Weight: "W" is the value for the internal pilot specification, the max. fitting size, and the manifold only. The valve weight is not included. To obtain the weight with valves mounted, add the valve weight given in the **Web catalogue on <https://www.smc.eu>** for the appropriate number of stations.

Manifold Flow Rate Characteristics

Model	Port size		Valve flow rate characteristics					
	1, 3/5 (P, E)	4, 2 (A, B)	1 → 4/2 (P → A/B)			4/2 → 3/5 (A/B → E)		
			C [dm ³ /(s·bar)]	b	Q [l/min(ANR)]*1	C [dm ³ /(s·bar)]	b	Q [l/min(ANR)]*1
JJ5SY3-L10 (Side ported)	C10	C8	2.23	0.30	567	2.77	0.27	691

* Calculation of effective area "S" and sonic conductance "C": S = 5.0 x C

* Values measured in accordance with ISO 6358:1989, JIS B 8390:2000

*1 These values have been calculated according to ISO 6358 and indicate the flow rate under standard conditions with an inlet pressure of 0.6 MPa (relative pressure) and a pressure drop of 0.1 MPa.

⚠ Caution

Securing the DIN Rail Mounting Type Manifold

- When mounting the manifold to a DIN rail using bolts, be sure that the bottom surface of the DIN rail is in contact with the manifold installation surface (in a horizontal state), then secure both ends of the DIN rail with the bolts. However, for other mounting methods or for side facing or upside down orientations, use the formula below to calculate the number of bolts to use at even intervals along the DIN rail.

Formula: Number of bolts = (Manifold stations + 5) / 5

(Round up to the nearest whole number)

Example) For 28 stations, secure in 7 locations as a guide.

- When using the manifold with a DIN rail in an environment where any vibration or impact is applied to it, the DIN rail itself may break. In particular, if the installation surface vibrates when mounting the manifold on the wall, or if a load is directly applied to the manifold, the DIN rail may break, causing the manifold to drop. When any vibration, impact, or load will be applied to the manifold, be sure to use a direct mounting manifold.

64-station Compatible Manifold

Plug-in Connector Connecting Base EX260

Type 10
Side Ported

JSY3000-L Series



RoHS

Internal Pilot

How to Order Manifolds

* Only the dedicated SI unit can be mounted on the 64-station compatible manifold.

JJ5SY3-L10SFN-24B 1-C8

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

64-station compatible manifold identification symbol

① Series

3	JSY3000
---	---------

② Type

10	Side ported
----	-------------



Made to Order
(For details, refer to the Web catalogue.)

Specification
External pilot (SUP/EXH block and Intermediate SUP/EXH block)

③ SI unit

Symbol	Protocol	Connector
0*1	Without SI unit	
F	PROFINET	M12
E	EtherNet/IP™	M12
D	EtherCAT	M8
K	IO-Link	M12

*1 Not compatible with the DIN rail mounting type

④ Manifold polarity

N	Negative common
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⑤ Valve stations

Symbol	Stations	Note
04	4 stations	Double wiring*2
08	8 stations	
⋮	⋮	
60	60 stations	
64	64 stations	

*2 Double wiring: 2-position single, 2-position double, 3-position, and 4-position valves can be used on all manifold stations. The use of a single solenoid will result in an unused control signal. This also includes the number of blanking plates.

* For stations, only multiples of 4, from 4 stations to 64 stations, can be selected. The 4 boards inside the manifold are integrated.

⑥ Manifold 1 (P) on both ends, 3/5(E) port exit position

U	U side (4 to 8 stations)
D	D side (4 to 8 stations)
B	Both sides (4 to 64 stations)

⑦ SUP/EXH block, Intermediate SUP/EXH block

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

* The 3/5(E) port is plugged for the built-in silencer type. Do not allow the air outlet to come into direct contact with water, etc.

* The external pilot specification should be ordered as Made to Order. For details, refer to the Web catalogue on <https://www.smc.eu>.

⑧ Number of intermediate SUP/EXH blocks, mounting position

Symbol	Quantity	Mounting position
0	0	—
1	1	Specify the mounting position on the manifold specifications sheet.
⋮	⋮	
6	6	

* A block can be installed for every 4 valve stations, but as a guideline, it is recommended that one be installed for every 8 to 12 stations.

⑨ 4(A), 2(B) port size (Metric/One-touch fitting)

Symbol	A, B port	P, E port
C4	Straight Ø 4	Straight Ø 10
C6	Straight Ø 6	
C8	Straight Ø 8	
CM*3	Straight port, mixed sizes	

*3 Indicate the sizes on the manifold specification sheet for "CM."

⑩ Mounting

Symbol	Mounting
—	Direct mounting
D*4	DIN rail mounting (With DIN rail)
DO*5	DIN rail mounting (Without DIN rail)

*4 Option "D" with DIN rail mounting is not compatible with the product without an SI unit.

*5 Order the DIN rail separately, referring to dimension L3. (Refer to the Web catalogue on <https://www.smc.eu> for DIN rail product numbers and lengths.)

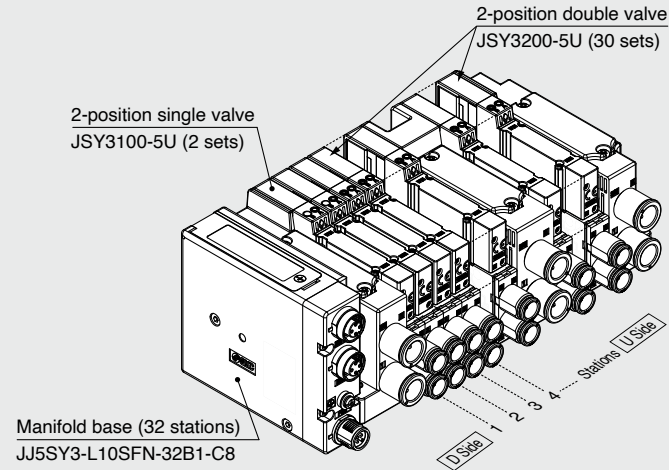
* Refer to page 1 for details on securing the DIN rail mounting type manifold.

For details on the EX 2 6 0 Integrated Type (For Output) Serial Transmission System, refer to the Web catalogue on <https://www.smc.eu> and the Operation Manual. For the part numbers of the SI units to be mounted, refer to page 5. Please download the Operation Manual via the SMC website: <https://www.smc.eu>

JSY3000-L Series

How to Order Manifold Assembly

Example (JJ5SY3-L10SFN-□)



JJ5SY3-L10SFN-32B1-C8... 1 set (32-station manifold base part no.)
 * **JSY3100-5U** 2 sets (2-position single part no.)
 * **JSY3200-5U** 30 sets (2-position double part no.)
 → The asterisk denotes the symbol for the assembly. Prefix it to the part numbers of the valve, etc.

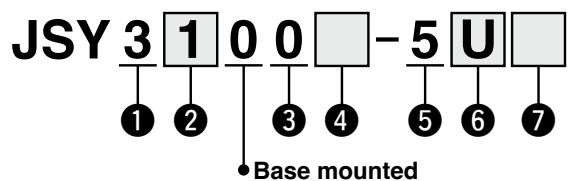
- For the valve arrangement, the valve closest to the D side is considered the 1st station.
- Under the manifold part number, state the valves to be mounted in order starting with the 1st station as shown in the figure. If the arrangement becomes too complicated, specify the details on a manifold specification sheet.
- Use the manifold specifications sheet to specify the mounting position of the intermediate SUP/EXH blocks.
- * Stations are only available in multiples of 4.

Internal Pilot

How to Order Valves (With mounting screw)

Refer to the Web catalogue on <https://www.smc.eu> for valve specifications.

JSY3000 Series



Made to Order
Made to Order
 (For details, refer to the Web catalogue.)

Specification
External pilot

1 Series

3	JSY3000
---	---------

3 Pilot valve exhaust method

0	Pilot valve individual exhaust
---	--------------------------------

4 Coil specifications

Symbol	Coil specifications
—	Standard
T	With power saving circuit (Continuous duty type)

* Be careful of the energising time when the power-saving circuit is selected.

5 Rated voltage

5	24 VDC
---	--------

2 Type of actuation

1		Single
2	2-position	Double
3		Closed center
4	3-position	Exhaust center
5		Pressure center
A		N.C./N.C.
B	4-position	N.O./N.O.
C	dual 3-port	N.C./N.O.

6 Light/surge voltage suppressor and common specification

Symbol	With light	Surge voltage suppressor	Common specification
U			Non-polar
NZ	●	●	Polar Negative common

- * Only "NZ" type is available with a power saving circuit.
- * When the non-polar common specification type is selected, take measures to prevent surge voltage. For details, refer to the **Web catalogue on <https://www.smc.eu>**.

7 Manual override

<p>—: Non-locking push type</p>	<p>D: Push-turn locking slotted type</p>
<p>E: Push-turn locking lever type</p>	

* **When ordering a valve individually, the base gasket is not included.**
 Since the base gasket is attached to the manifold, please order the base gasket separately if it is needed for maintenance. Refer to the **Web catalogue on <https://www.smc.eu>** for base gasket and mounting screw part numbers.

⚠ Caution

If the product is to be continuously energized, please be sure to select the power-saving circuit (continuous duty type) specification.

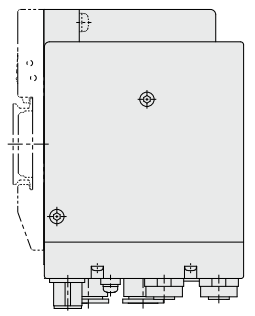
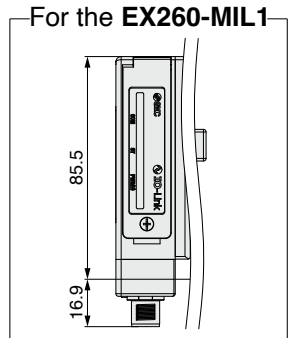
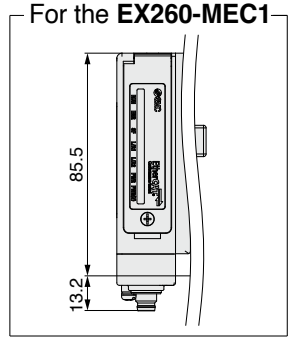
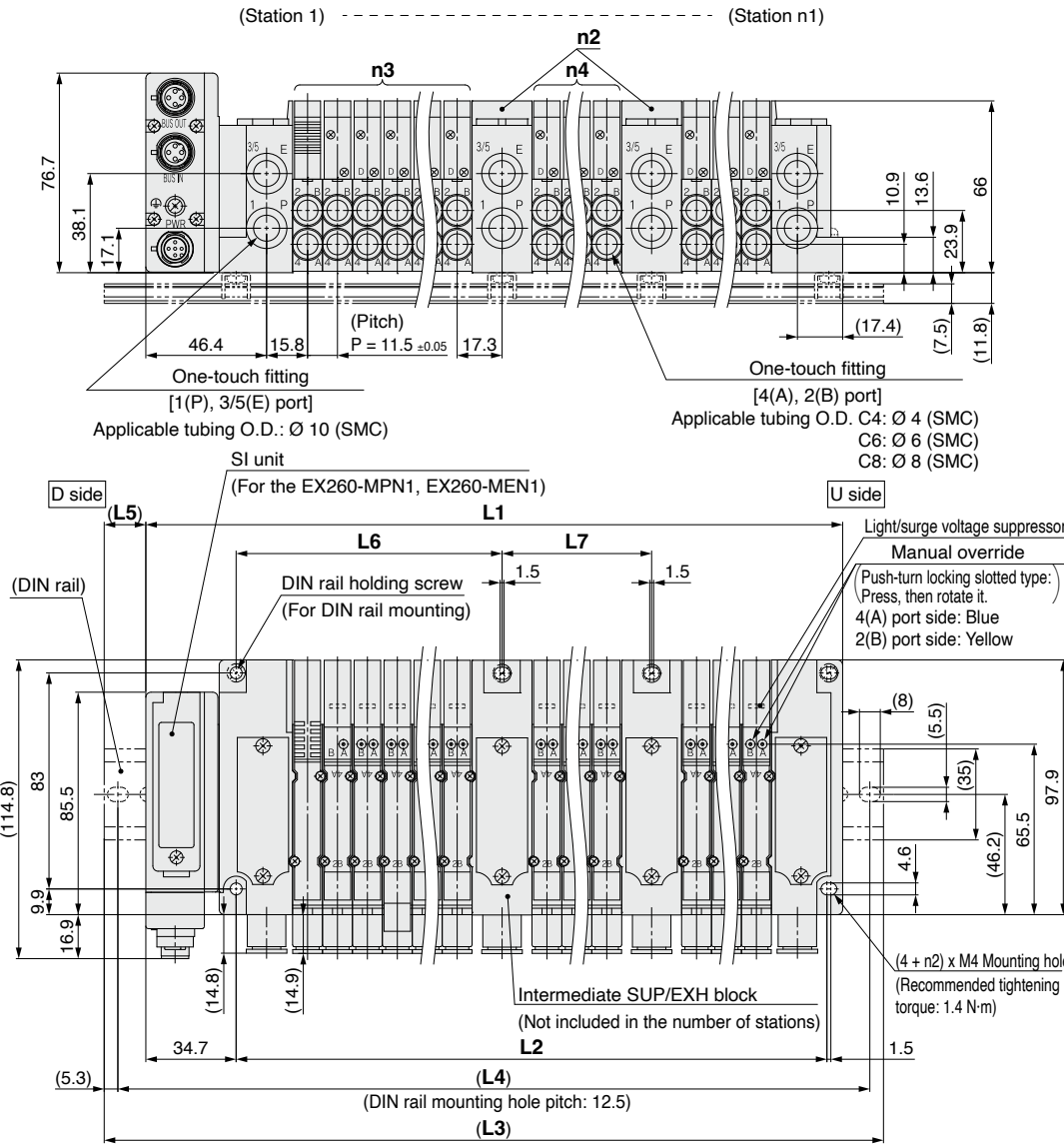
* Refer to the "With power-saving circuit" section in the "Specific Product Precautions" of the plug-in type JSY series **Web catalogue on <https://www.smc.eu>** for details.

⚠ Protective class class III (Mark: ◊)

Type 10/Side Ported
 EX260/64-station Compatible Manifold

Dimensions: JSY3000-L Series

JJ5SY3-L10S□N - Stations \square \square \square - C₄ C₆ C₈(D)



Dimension calculation formulas

L1 = 11.5 x n1 + 23 x n2 + 83.8
 L2 = 11.5 x n1 + 23 x n2 + 43.1
 M = L1 / 12.5 + 1 Round down to the nearest whole number.
 L3 = 12.5 x M + 23
 L4 = L3 - 10.5
 L5 = (L3 - L1) / 2 Round up to the nearest whole number.
 L6 = 11.5 x n3 + 33.2
 L7 = 11.5 x n4 + 23

n1: Number of JSY3000 valve stations (Multiples of 4)
 n2: Number of intermediate SUP/EXH blocks
 n3: Stations from the D side to the first intermediate SUP/EXH block
 n4: Stations between the intermediate SUP/EXH blocks

* These figures show the JJ5SY3-L10SFN-□B2-C8.
 * Refer to the **Web catalogue** on <https://www.smc.eu> for the dimensions of the external pilot and silencer.

⚠ Caution
 There will be slight variations in the width of manifold blocks due to tolerance. As the manifold is made up of a combination of manifold blocks, there will be slight variations between the actual pitch dimensions of the mounting holes used to secure the manifold and the values stated in the catalogue due to tolerance.

L: Dimensions When the intermediate SUP/EXH block count is "n2 = 0" n1: Stations

L \ n1	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64
L1	129.8	175.8	221.8	267.8	313.8	359.8	405.8	451.8	497.8	543.8	589.8	635.8	681.8	727.8	773.8	819.8
L2	89.1	135.1	181.1	227.1	273.1	319.1	365.1	411.1	457.1	503.1	549.1	595.1	641.1	687.1	733.1	779.1
L3	160.5	210.5	248	298	348	385.5	435.5	485.5	523	573	623	660.5	710.5	760.5	798	848
L4	150	200	237.5	287.5	337.5	375	425	475	512.5	562.5	612.5	650	700	750	787.5	837.5
L5	16	18	14	16	18	13	15	17	13	15	17	13	15	17	13	15

*1 When the number of intermediate SUP/EXH blocks is "n2 = 1 to 6," calculate the respective dimensions using the various dimension calculation formulas above.

EX260 Series SI Unit



How to Order SI Units

EX260 – M PN1

Communication protocol

Symbol	Protocol	Output	Communication connector	Power supply connector	Manifold symbol	Applicable manifold
PN1	PROFINET	For the 64-station compatible manifold	M12	M12	F	JSY3000-L (64 stations specification)
EN1	EtherNet/IP™		M12	M12	E	
EC1	EtherCAT		M8	M8	D	
IL1	IO-Link		M12		K	

Specifications

Common Specifications for All SI Units

Power supply for control	Power supply voltage	24 VDC +20 %, -15 %
	Internal current consumption	100 mA or less*1
Power supply for output*2	Power supply voltage	24 VDC +20 %, -15 %
	Max. supply current	3 A
	Voltage drop to valve supply	Max. 1.2 V (at 24 VDC)
Environmental resistance	Enclosure (Based on IEC 60529)	IP67
	Operating temperature range	-10 to +50°C
	Operating humidity range	35 to 85 % RH (No condensation)
	Withstand voltage	500 VAC for 1 min between external terminals and FE
	Insulation resistance	500 VDC, 10 MΩ or more between external terminals and FE
Standards	CE/UKCA marking	
Weight	200 g	

*1 150 mA or less for the EX260-MPN1

*2 This is the SI unit power supply voltage. Supply power according to the type of solenoid valve used.

SI Unit Specifications by Model

Model		EX260-MPN1
Applicable system	Protocol	PROFINET*1
	Configuration file*2	GSD file
Applicable functions		MRP function, MRPD function, Fast Startup function, Shared Device function, System Redundancy S2 function, PROFenergy function, Conformance Class C, NET Load Class III
Communication speed		100 Mbps
Communication connector specification		M12
Output	Number of outputs	Max. 128 outputs
	Load	Solenoid valve with surge voltage suppressor, 24 VDC, 0.4 W or less (SMC)
Accessories	Mounting screw	Hexagon socket head cap screw M3 x 30 (2 pcs.)
	Seal cap (for M12 connector socket)	EX9-AWTS (1 pc.)

Model		EX260-MEC1
Applicable system	Protocol	EtherCAT*1
	Configuration file*2	ESI file
Applicable functions		CoE, FoE, DC synchronous
Communication speed		100 Mbps
Communication connector specification		M8
Output	Number of outputs	Max. 128 outputs
	Load	Solenoid valve with surge voltage suppressor, 24 VDC, 0.4 W or less (SMC)
Accessories	Mounting screw	Hexagon socket head cap screw M3 x 30 (2 pcs.)
	Seal cap (for M8 connector socket)	EX9-AWES (2 pc.)

Model		EX260-MEN1
Applicable system	Protocol	EtherNet/IP™
	Configuration file*2	EDS file
Applicable functions		Quickconnect, DLR, Web server
Communication speed		100 Mbps
Communication connector specification		M12
Output	Number of outputs	Max. 128 outputs
	Load	Solenoid valve with surge voltage suppressor, 24 VDC, 0.4 W or less (SMC)
Accessories	Mounting screw	Hexagon socket head cap screw M3 x 30 (2 pcs.)
	Seal cap (for M12 connector socket)	EX9-AWTS (1 pc.)

Model		EX260-MIL1
Applicable system	Protocol	IO-Link
	Configuration file*2	IODD file
Applicable functions		ISDU, Data Storage
Communication speed		COM3 (230.4 kbps)
Communication connector specification		M12
Output	Number of outputs	Max. 128 outputs
	Load	Solenoid valve with surge voltage suppressor, 24 VDC, 0.4 W or less (SMC)
Accessories	Mounting screw	Hexagon socket head cap screw M3 x 30 (2 pcs.)

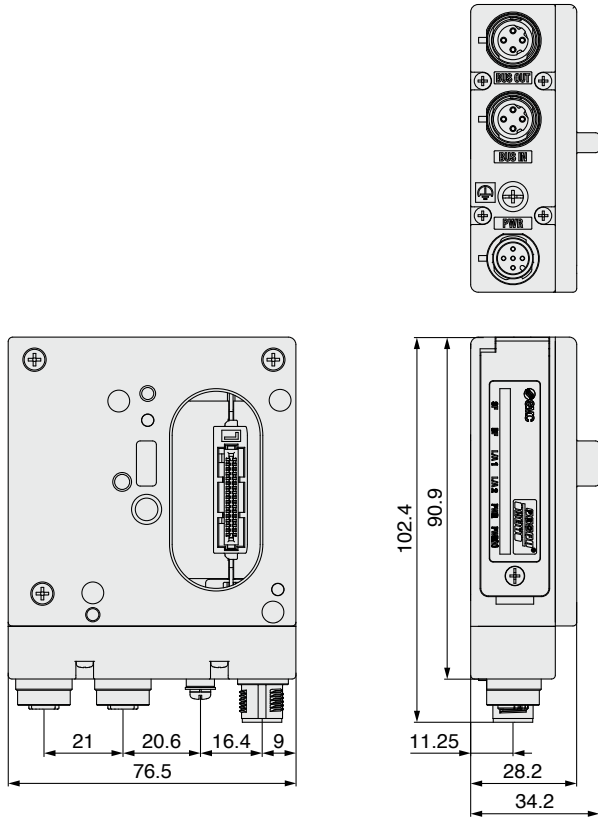
*1 Use a CAT5 or higher communication cable for EtherCAT, Ethernet/IP™, and PROFINET.

*2 The configuration file can be downloaded from the SMC website: <https://www.smc.eu>

Dimensions

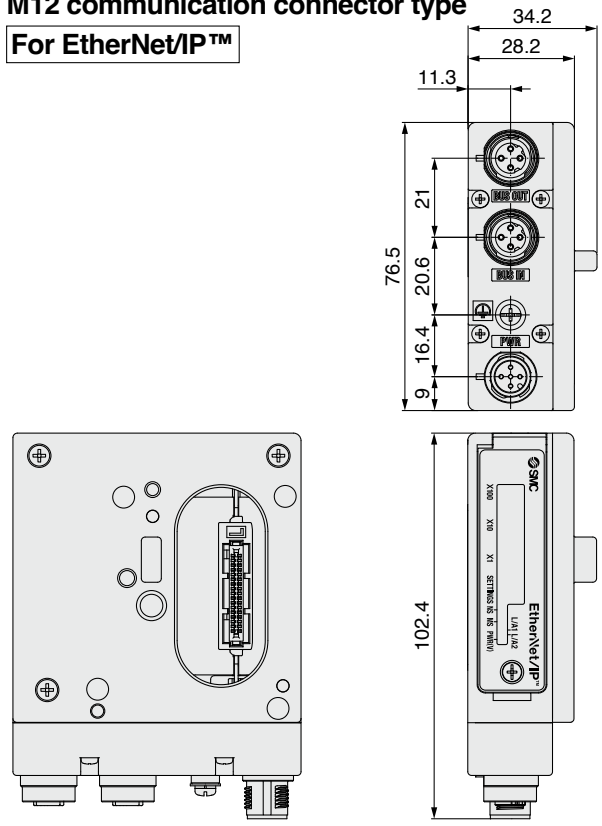
M12 communication connector type

For PROFINET



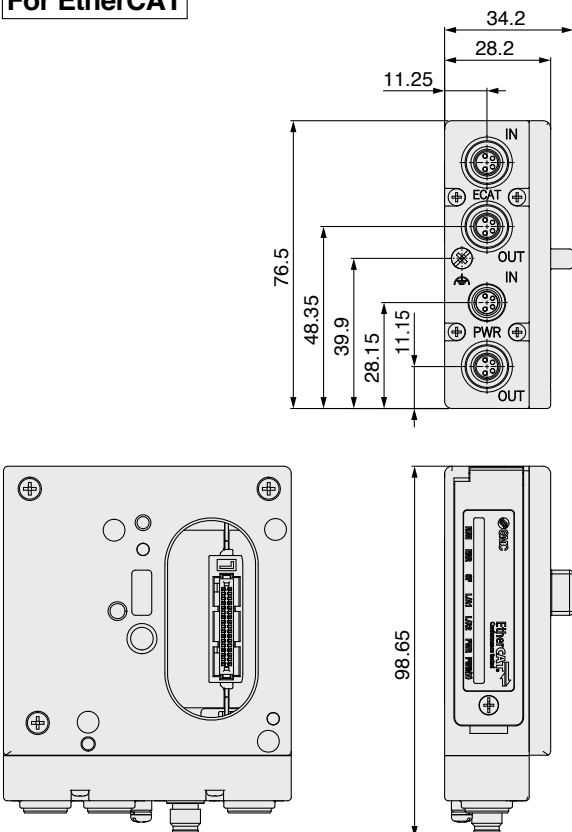
M12 communication connector type

For EtherNet/IP™



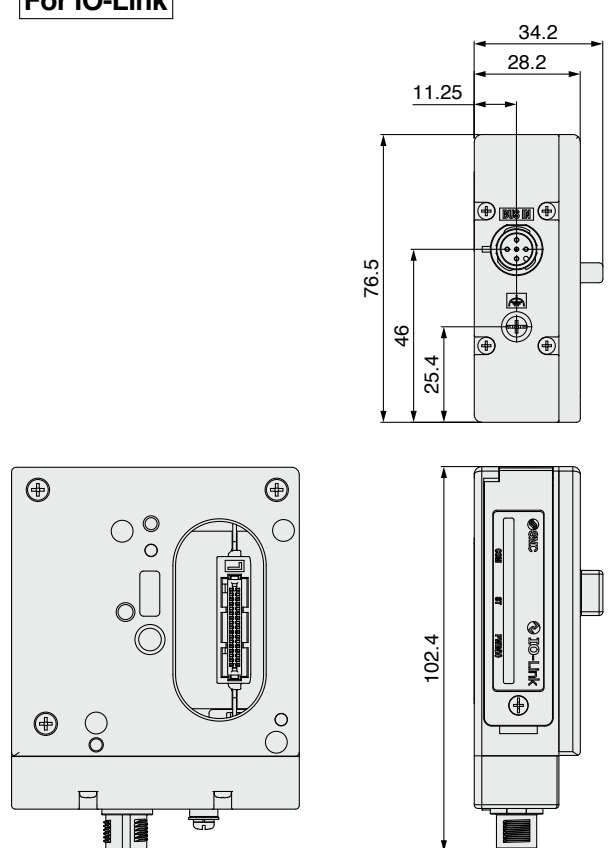
M8 communication connector type

For EtherCAT



M8 communication/Power supply connector type

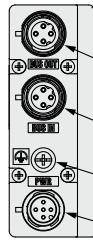
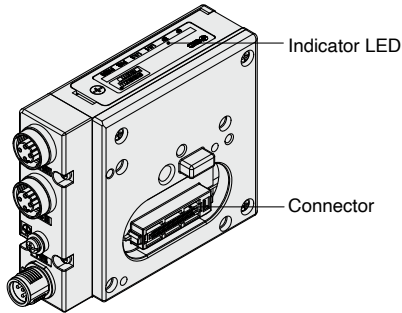
For IO-Link



EX260 Series

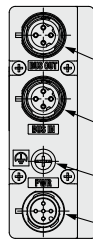
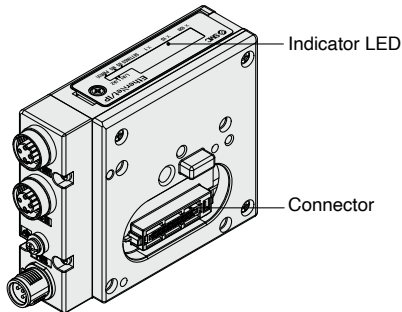
Parts Description

For PROFINET



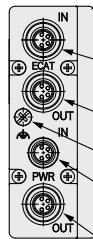
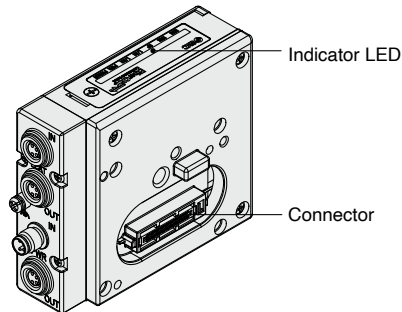
Part no.	EX260-MPN1
Protocol	PROFINET
Communication connector (M12) BUS OUT	4 pins, socket, D code
Communication connector (M12) BUS IN	4 pins, socket, D code
Ground terminal	M3
Power connector (M12) PWR	4 pins, plug, A code

For EtherNet/IP™



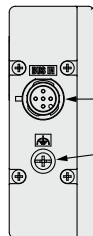
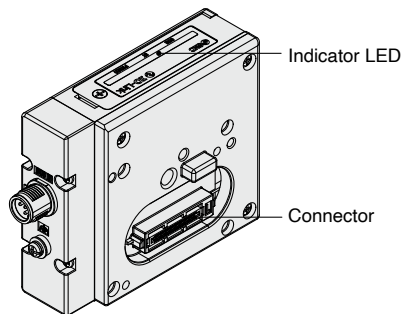
Part no.	EX260-MEN1
Protocol	EtherNet/IP™
Communication connector (M12) BUS OUT	4 pins, socket, D code
Communication connector (M12) BUS IN	4 pins, socket, D code
Ground terminal	M3
Power connector (M12) PWR	4 pins, plug, A code

For EtherCAT



Part no.	EX260-MEC1
Protocol	EtherCAT
Communication connector (M8) Port1	4 pins, socket, A code
Communication connector (M8) Port2	4 pins, socket, A code
Ground terminal	M3
Power connector (M8) PWR IN	4 pins, plug, A code
Power connector (M8) PWR OUT	4 pins, socket, A code

For IO-Link

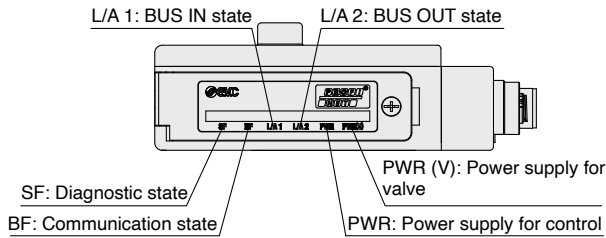


Part no.	EX260-MIL1
Protocol	IO-Link
Communication/Power connector (M12)*1	5 pins, plug, A code
Ground terminal	M3

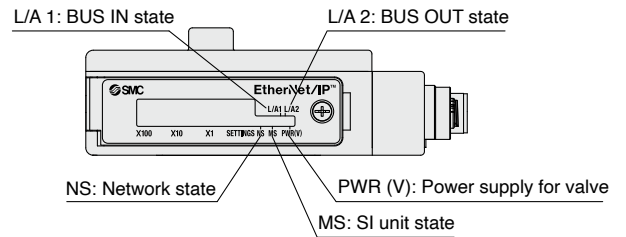
*1 The communication line, control/sensor power supply line, and the valve power supply line are connected using the same cable.

LED Indicator

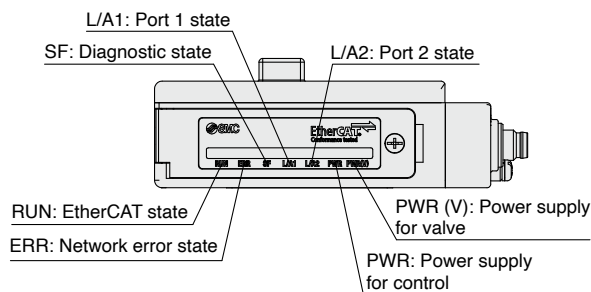
For PROFINET EX260-MPN1



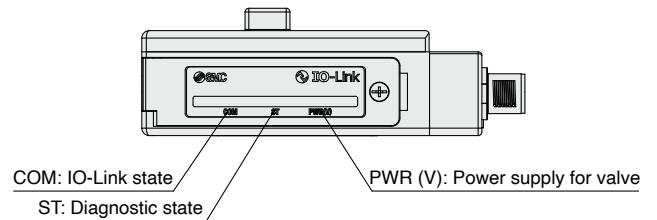
For EtherNet/IP™ EX260-MEN1



For EtherCAT EX260-MEC1



For IO-Link EX260-MIL1



Accessories

For details, refer to the **Web catalogue** on <https://www.smc.eu> (EX260 series).

* SMC does not provide cables for the EtherCAT compatible type (M8 connector). Order a cable from another cable manufacturer.

JSY3000-L Series Manifold Options

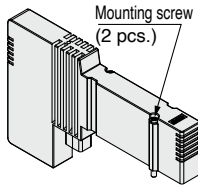
* Refer to page 9 for dimensions.

Caution Tightening torque for mounting screw
M2: 0.16 N·m (JSY3000)

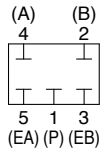
Blanking plate

[With two mounting screws]

Used when valve additions are expected or for maintenance



JSY31M-26P-1A



Circuit diagram

JSY 3 1M - 26P - 1A

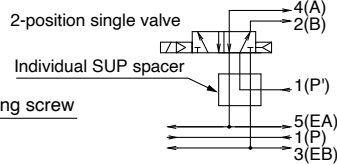
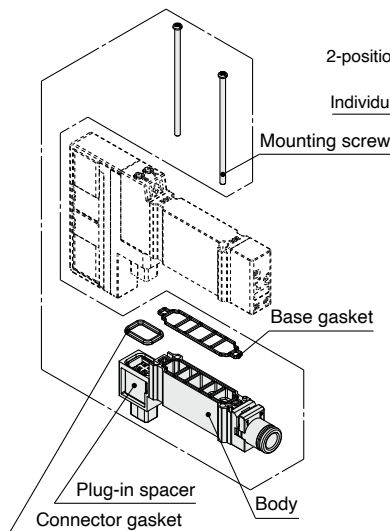
Series

3	JSY3000
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Individual SUP spacer

[With a connector gasket, a base gasket, and two mounting screws]

When the same manifold is to be used for different pressures, an individual SUP spacer assembly can be used to act as a supply port for different pressures.



Circuit diagram

(Mounting example of a 2-position single valve)

Part numbers of mounting screw
(For repairs)

JSY3000: JSY31V-23-2A (2 pcs.)

JSY 3 1M - 38 P - 1A - C6

Spacer type

38	Individual SUP spacer
39	Individual EXH spacer

Series

3	JSY3000
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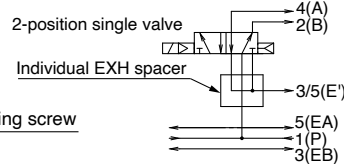
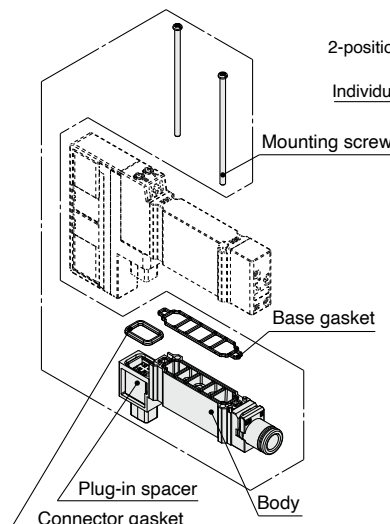
Port size (One-touch fittings)

Symbol	P, E port	JSY3000
C6	Ø 6 One-touch fitting	●

Individual EXH spacer

[With a connector gasket, a base gasket, and two mounting screws]

When valve exhaust affects other stations due to the circuit configuration, this spacer can be used for individual valve exhaust.



Circuit diagram

(Mounting example of a 2-position single valve)

Part numbers of mounting screw
(For repairs)

JSY3000: JSY31V-23-2A (2 pcs.)

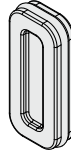
■ SUP/EXH blocking disk

[SUP blocking disk]

Inserting an SUP blocking disk in the pressure supply passage of a manifold valve can allow for the use of 2 different pressures (high and low) in 1 manifold.

[EXH blocking disk]

Inserting an EXH blocking disk in the exhaust passage of a manifold valve can separate the exhaust from the valve so it does not affect the other valves. It can also be used in positive pressure and vacuum pressure mixed manifolds. (2 pieces are required to block both the EA and EB sides of the EXH.)

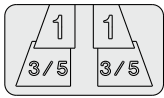


Series	SUP blocking disk	EXH blocking disk
JSY3000	JSY31M-40P-1A	JSY31M-40P-2A

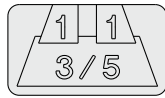
■ Labels for blocking disks

These labels can be used to indicate and confirm where on the manifold the SUP/EXH blocking disk assemblies were inserted. (3 labels of each)

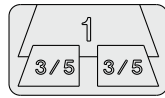
SUP/EXH blocking disk label



SUP blocking disk label



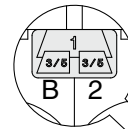
SUP blocking disk label



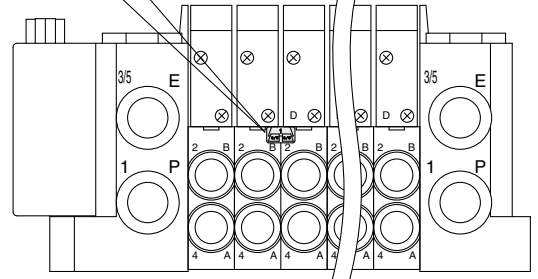
Series	Part no.
JSY3000	SJ3000-155-1A

⚠ Caution

The manifold base cannot be disassembled by the customer. Specify the mounting location of the intermediate SUP/EXH block assembly on the manifold specification sheet.



* If the blocking disk is ordered using the manifold specification sheet and ordered at the same time as the manifold, the position where the blocking disk is inserted will be labeled and shipped out.



■ Intermediate SUP/EXH block assembly

JSY31M - 125P - 1A - **C10**

● Mounting

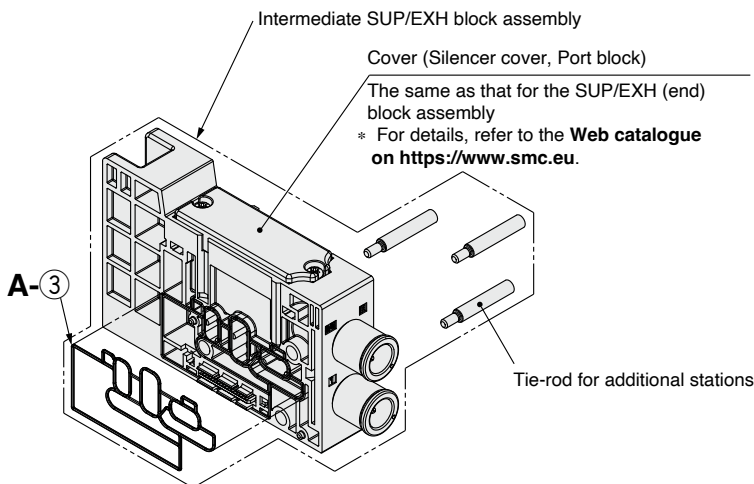
—	Direct mounting
D0	DIN rail mounting (Without DIN rail)

● Pilot, Silencer type

Symbol	Pilot type		Built-in silencer
	Internal	External (Made to Order)	
—	●	—	—
S	●	—	●
R	—	●	—

● P, E port size (One-touch fitting)

Symbol	P, E port	JSY3000
C10	Ø 10 One-touch fitting	●



Intermediate SUP/EXH block assembly accessories and the number of accessories

Accessories	Quantity
Tie-rod for additional stations	3 pcs.
A-③ Manifold block gasket	1 pc.

* Gasket is mounted.

Clamp bracket

Series	Part no.
JSY3000	SY30M-15-1A

⚠ Caution

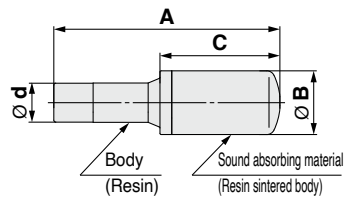
The manifold base cannot be disassembled by the customer. Specify the mounting location of the intermediate SUP/EXH block assembly on the manifold specification sheet.

JSY3000-L Series

■ Silencer (One-touch fitting connection type)

This silencer can be mounted to the 3/5 (E: EXH) port of the manifold in one step.

* Shipped together with the product

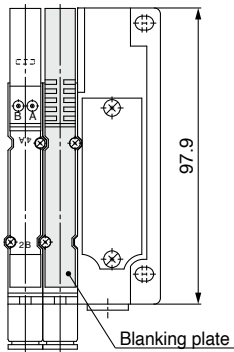
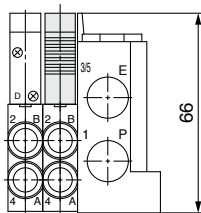


Series (Ø d)	Model	Effective area	A	B	C
For JSY3000 (Ø 10)	AN20-C10	30 mm ²	57.5	16.5	30.5

Dimensions

■ Blanking plate

JSY3000 series

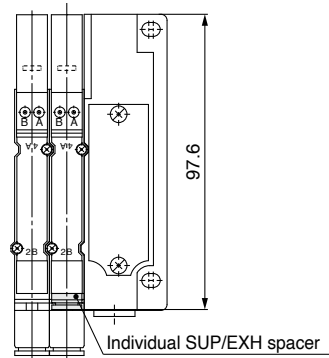
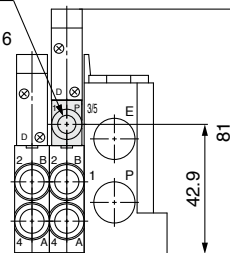


■ Individual SUP/EXH spacer

JSY3000 series

One-touch fitting

(SUP, EXH port)
Applicable tubing O.D.: Ø 6



■ Trademark

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

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.

Danger:

Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

Warning:

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

Caution:

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

- 1) ISO 4414: Pneumatic fluid power – General rules and safety requirements for systems and their components.
ISO 4413: Hydraulic fluid power – General rules and safety requirements for systems and their components.
IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)
ISO 10218-1: Robots and robotic devices - Safety requirements for industrial robots - Part 1: Robots.
etc.

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 catalogue 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. Our products cannot be used beyond their specifications. Our products are not developed, designed, and manufactured to be used under the following conditions or environments. Use under such conditions or environments is not covered.

1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
2. Use for nuclear power, railways, aviation, space equipment, ships, vehicles, military application, equipment affecting human life, body, and property, fuel equipment, entertainment equipment, emergency shut-off circuits, press clutches, brake circuits, safety equipment, etc., and use for applications that do not conform to standard specifications such as catalogues and operation manuals.
3. Use for interlock circuits, except for use with double interlock such as installing a mechanical protection function in case of failure. Please periodically inspect the product to confirm that the product is operating properly.

Caution

We develop, design, and manufacture our products to be used for automatic control equipment, and provide them for peaceful use in manufacturing industries.

Use in non-manufacturing industries is not covered.

Products we manufacture and sell cannot be used for the purpose of transactions or certification specified in the Measurement Act.

The new Measurement Act prohibits use of any unit other than SI units in Japan.

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 catalogue 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.

Safety Instructions

Be sure to read “Handling Precautions for SMC Products” (M-E03-3) before using.

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