

## How to Order Manifold

SS5X 3 - 45S A - 05 U - 05

Series

3	SX3000
5	SX5000

SI unit

Symbol	Specifications
O	Without SI unit
A	With general type SI unit (Series EX300)
B	Mitsubishi Electric Corp.: MELSECNET/mini-S3 Data Link System
C	OMRON Corp.: SYSBUS Wire System
D	SHARP Corp.: Satellite I/O Link System
E	Matsushita Electric Works: MEWNET-F System
F1	NKE Corp.: Uni-wire System (16 output points)
G	Rockwell Automation: Allen Bradley Remote I/O (RIO) System
H	NKE Corp.: Uni-wire H System
J1	SUNX Corp.: S-LINK System (16 output points)
J2	SUNX Corp.: S-LINK System (8 output points)
K	Fuji Electric Co.: T-LINK Mini System
Q	DeviceNet, CompoBus/D (OMRON Corp.)
R1	OMRON Corp.: CompoBus/S System (16 output points)
R2	OMRON Corp.: CompoBus/S System (8 output points)
U	JEMANET (JPCN-1)
V	Mitsubishi Electric Corp.: CC-LINK System

- For the general purpose type, a transmission unit is required on the CPU side.
- Even though when it is not equipped with SI unit, DIN rail length is long enough for future expectancy of mounting SI unit.

Valve stations

Symbol	Stations	Note
02	2 stations	Double wiring specifications
08	8 stations	
02	2 stations	Applicable up to 16 solenoids. Use the manifold specification sheet to specify the wiring specifications.
16	16 stations	

- This also includes the number of blanking plate assemblies.
- When special wiring is required on manifold with 2 to 8 stations, please use the manifold specification sheet.

A, B port size  
(Metric size)

Symbol	Port size	Applicable series
C4	One-touch fitting for ø4	SX3000
C6	One-touch fitting for ø6	
M	Mixed	
C4	One-touch fitting for ø4	SX5000
C6	One-touch fitting for ø6	
C8	One-touch fitting for ø8	
M	Mixed	

\* In the case of mixed specifications (M), indicate separately on the manifold specification sheet.

SUP/EXH block assembly  
mounting position

Symbol	Mounting position	Stations
U	U side	2 to 10 stations
D	D side	2 to 10 stations
B	Both sides	2 to 16 stations
M	Special specifications	

\* For special specifications, indicate separately by the manifold specification sheet.

(Inch size)

Symbol	Port size	Applicable series
N3	One-touch fitting for ø5/32"	SX3000
N7	One-touch fitting for ø1/4"	
M	Mixed	
N3	One-touch fitting for ø5/32"	SX5000
N7	One-touch fitting for ø1/4"	
N9	One-touch fitting for ø5/16"	
M	Mixed	

## SI Unit Part No.

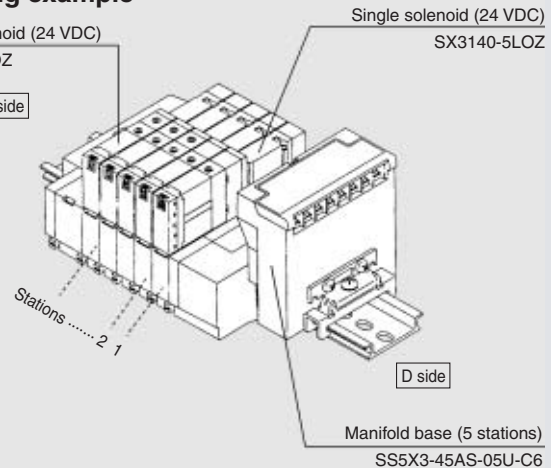
Symbol	Specifications	For SS5X□-45S	Symbol	Specifications	For SS5X□-45S
A	With general type SI unit (Series EX300)	EX322-S001	J1	SUNX Corp.: S-LINK System (16 output points)	EX122-SSL1
B	Mitsubishi Electric Corp.: MELSECNET/mini-S3 Data Link System	EX122-SMB1	J2	SUNX Corp.: S-LINK System (8 output points)	EX122-SSL2
C	OMRON Corp.: SYSBUS Wire System	EX122-STa1	K	Fuji Electric Co.: T-LINK Mini System	EX122-SFU1
D	SHARP Corp.: Satellite I/O Link System	EX122-SSH1	Q	DeviceNet, CompoBus/D (OMRON Corp.)	EX122-SDN1
E	Matsushita Electric Works: MEWNET-F System	EX122-SPA1	R1	OMRON Corp.: CompoBus/S System (16 output points)	EX122-SCS1
F1	NKE Corp.: Uni-wire System (16 output points)	EX122-SUW1	R2	OMRON Corp.: CompoBus/S System (8 output points)	EX122-SCS2
G	Rockwell Automation: Allen Bradley Remote I/O (RIO) System	EX122-SAB1	U	JEMANET (JPCN-1)	EX122-SJN1
H	NKE Corp.: Uni-wire H System	EX122-SUH1	V	Mitsubishi Electric Corp.: CC-LINK System	EX122-SMJ1

## How to Order Valve Manifold Assembly

### Ordering example

Double solenoid (24 VDC)  
SX3240-5LOZ

U side



SS5X3-45SA-05U-C6.....1 set (45S with serial 5-station manifold base no.)  
\*SX3140-5LOZ.....2 sets (Single solenoid part no.)  
\*SX3240-5LOZ.....3 sets (Double solenoid part no.)

\* The asterisk denotes the symbol for assembly. Prefix it to the part nos. of the solenoid valve, etc.

- They will be assembled in the order listed starting at the first station at the D side whether the connector box is located at either end. When ordering with the double wiring specification, specify it in order, beginning with the 1 station on the D side.
- For manifolds with more than 8 stations (9 to 16), special wiring is required. Please use the manifold specification sheet.
- Serial unit can be mounted on D side only.

## How to Order Valves

SX 3 2 40 - 5 LOZ

Series

3	SX3000
5	SX5000

Type of actuation

1	2 position single
2	2 position double
3	3 position closed center
4	3 position exhaust center
5	3 position pressure center

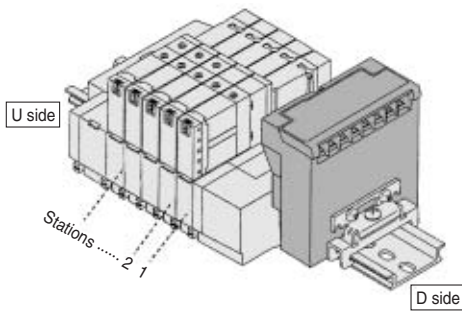
Rated voltage

5	24 VDC
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Manual override

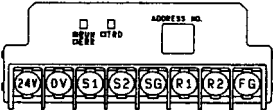
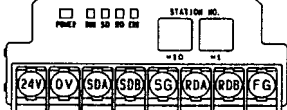
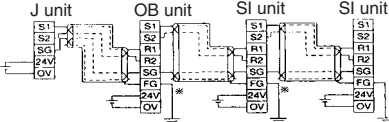
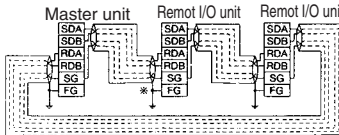
Nil	Non-locking push type
D	Push-turn locking slotted type

- The serial transmission system reduces wiring work, while minimizing wiring and saving space.
- Maximum 16 stations (Specify a model with more than 9 stations by means of the manifold specification sheet.)



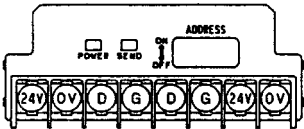
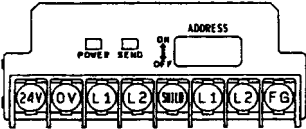
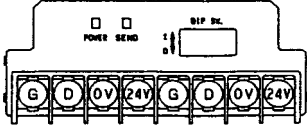
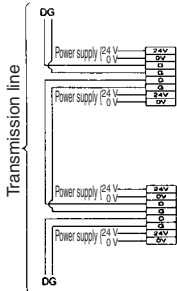
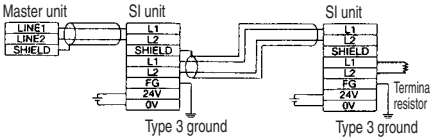
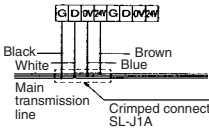
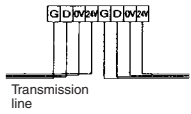
- Stations are counted from station 1 on the D side.
- Maximum station: Up to 16 solenoids (16 single solenoids).

Item	Specifications
External power supply	24 VDC + 10%/– 5%
Current consumption (Internal unit)	0.1 A SA, SB, SD, SE, SF1, SG, SJ1, SJ2, SK, SR1, SR2
	0.3 A SC, SQ

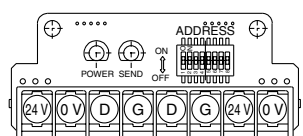
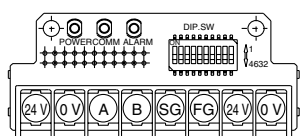
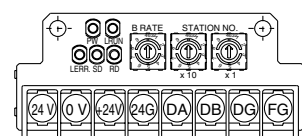
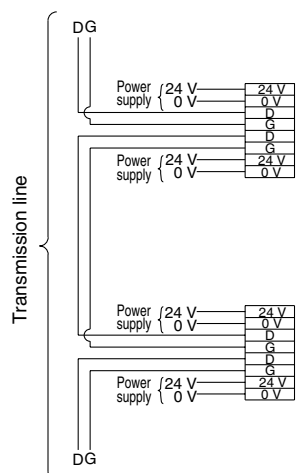
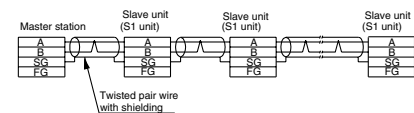
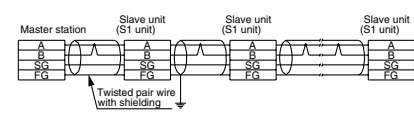
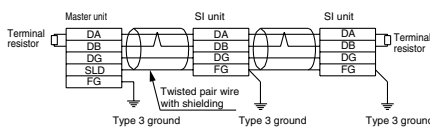
	Type SA Series EX300	Type SB Mitsubishi Electric Corporation MELSECNET/MINI-S3 Data Link System																		
Name of terminal block, LED	<div></div> <table><tr><th>LED</th><th>Description</th></tr><tr><td>TRD</td><td>Lighting during data reception</td></tr><tr><td>RUN/ERR</td><td>Blinking when received data is normal; Lighting when data reception</td></tr></table>	LED	Description	TRD	Lighting during data reception	RUN/ERR	Blinking when received data is normal; Lighting when data reception	<div></div> <table><tr><th>LED</th><th>Description</th></tr><tr><td>POWER</td><td>Lighting when power is turned ON</td></tr><tr><td>RUN</td><td>Lighting when data transmission with the master station is normal</td></tr><tr><td>RD</td><td>Lighting during data reception</td></tr><tr><td>SD</td><td>Lighting during data reception</td></tr><tr><td>ERR.</td><td>Lighting when reception data error occurs Light turns off when the error is corrected</td></tr></table>	LED	Description	POWER	Lighting when power is turned ON	RUN	Lighting when data transmission with the master station is normal	RD	Lighting during data reception	SD	Lighting during data reception	ERR.	Lighting when reception data error occurs Light turns off when the error is corrected
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Note	<ul style="list-style-type: none"><li>• Serial transmission is possible by connecting with I/O card of T unit PLC manufacturer. EX300-TMB1.....for Mitsubishi Electric Corporation EX300-TTA1.....for OMRON Corporation EX300-TFU1.....for Fuji Electric Co., Ltd. EX300-T001.....General purpose * Each T unit has 32 control points.</li><li>• No. of output point, 16 points</li></ul>	<ul style="list-style-type: none"><li>• MELSECNET/MINI-S3 Data Link System Master unit: AJ71PT32-S3 AJ71T32-S3 A1SJ71PT32-S3</li><li>• No. of output point, 16 points No. of sta. occupied, 2 stations</li></ul>																		
Cable wiring	<div></div> <p>* Ground either the reception side or the transmission side of the shielding wire shield.</p>	<div><p>SI manifold solenoid valve</p></div> <p>* Ground either the reception side or the transmission side of the shielding wire shield.</p>																		

SV  
SZ  
SY  
SYJ  
SX

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Note	<ul style="list-style-type: none"><li>● SYSBUS Wire System Master unit: Type C500-RM201 C200H-RH201</li><li>● No. of output points, 16 points</li></ul>	<ul style="list-style-type: none"><li>● Satellite I/O Link System Master unit: ZW-31LM JW-31LM JW-23LM</li><li>● No. of output points, 16 points</li></ul>	<ul style="list-style-type: none"><li>● MEWNET-F System Master unit: AFP3740 AFP5740</li><li>● No. of output points, 16 points</li></ul>																										
Cable wiring	<div></div> <p>Type 3 ground</p>	<div><p>a) 2-wire type Wiring without signal ground line (SG)</p><p>b) 3-wire type Wiring with signal ground line (SG)</p></div> <p>Type 3 ground</p>	<div></div> <p>Type 3 ground</p>																										

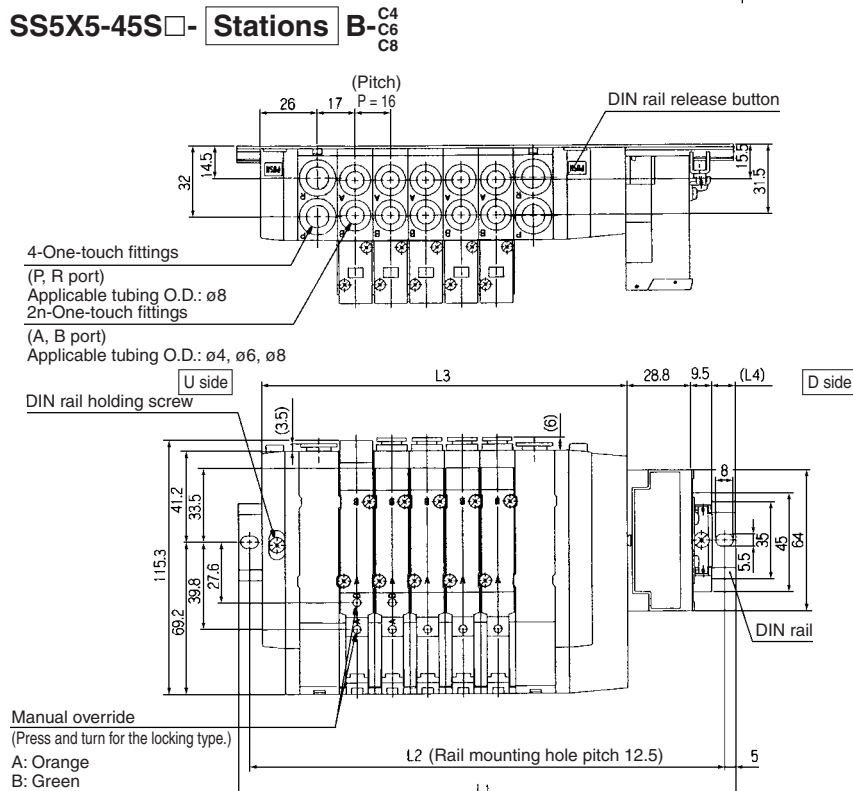
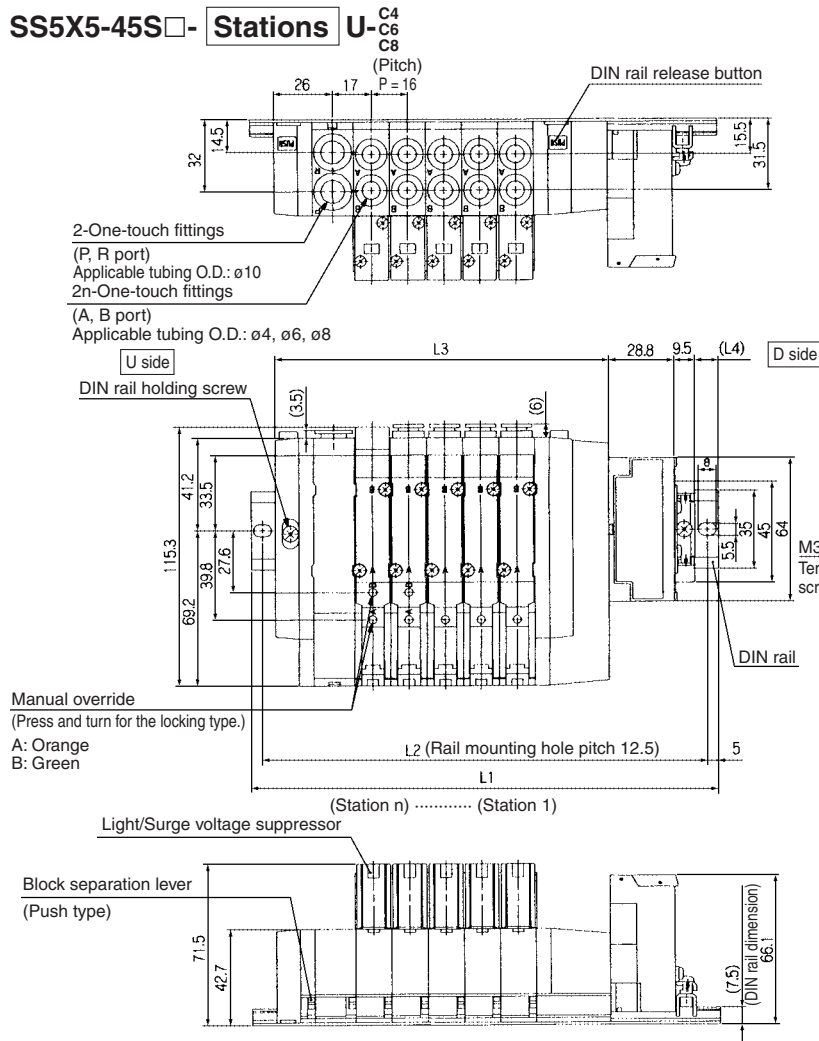
	<div>Type SF1 NKE Corporation Uni-wire System</div>	<div>Type SG Rockwell Automation, Inc. Allen Bradley Remote I/O (RIO) System</div>	<div>Type SJ1, SJ2 SUNX Corporation S-LINK System</div>																				
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Note	<ul style="list-style-type: none"><li>• Wiring Simplifying System</li><li>Send unit: SD-120</li><li>• No. of output points, 16 points</li></ul>	<ul style="list-style-type: none"><li>• Remote I/O (RIO) System</li><li>• No. of output points, 16 points</li></ul>	<ul style="list-style-type: none"><li>• S-LINK System</li><li>S-LINK Controller: SL-CU1</li><li>• No. of output points, 16 points (Type SJ1)</li><li>No. of output points, 8 points (Type SJ2)</li></ul>																				
Cable wiring	<div></div>	<div></div>	<div><div>a) Type T branching multi-drop wiring (S-LINK System)</div><div></div><div>b) Crossover wiring (Sensor Link System)</div><div></div></div> <div>The above is the example of using dedicated S-LINK flat ribbon cable SL-RCM#100.</div>																				

	Type SK Fuji Electric Co. Ltd. T-LINK Mini System	Type SQ DeviceNet	Type SR1, SR2 OMRON Corporation CompoBus/S System																				
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Note	<ul style="list-style-type: none"><li>• T-LINK Mini System Master unit: FTM100B Converter: FRC100A-G02 Repeater: FRC200A-C10</li><li>• No. of output points, 16 points</li></ul>	<ul style="list-style-type: none"><li>• DeviceNet</li><li>• OMRON Corp's CompoBus/D System Master station unit: C200HW-DSM21</li><li>• No. of output points, 16 points</li></ul>	<ul style="list-style-type: none"><li>• CompoBus/S System Master station unit: C200HW-SRM21 Master station unit: CQM1-SRM21</li><li>• No. of output points, 16 points (Type SR1)</li><li>• No. of output points, 8 points (Type SR2)</li></ul>																				
Cable wiring	<div></div> <p>Connect the shielding wire to the SD terminal. If the shielding wire is not connected to the SD terminal, normal transmission will be impossible even for short distances. Furthermore, do not ground the shielding wire (SD).</p>	<div></div>	<div></div>																				

	Type SH NKE Corporation Uni-wire H System	Type SU JEMANET (JPCN-1)	Type SV Mitsubishi Electric Corporation CC-LINK System																									
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RD	ON when data is received																											
L ERR.	ON for transmission error/wrong setting, Blinks when station or transmission speed setting changes during operation																											
Note	<ul style="list-style-type: none"><li>• Uni-wire H System Send unit: SD-H2</li><li>• No. of output points, 16 points</li></ul>	<ul style="list-style-type: none"><li>• JEMANET (JPCN-1) (Reference) AJ71J92-S3 (Mitsubishi Electric Corporation) A1SJ71J92-S3 (Mitsubishi Electric Corporation) Type C200HW-JRM21 (OMRON Corporation) NJ-JPCN-1 (Fuji Electric Co., Ltd.) NP1L-JP1 (Fuji Electric Co., Ltd.)</li><li>• No. of output points, 16 points</li></ul>	<ul style="list-style-type: none"><li>• CC-LINK System Master unit: AJ61BT11 A1SJ61BT11 AJ61QBT11 A1SJ61QBT11</li><li>• No. of output points, 16 points</li></ul>																									
Cable wiring		<p>a) 2-wire type</p>  <p>b) 3-wire type</p> 																										

SV  
SZ  
SY  
SYJ  
SX

## SX5000: Serial Transmission Unit/Plug-in



(mm)

Stations n	2 stations	3	4	5	6	7	8	9	10 stations
L1	173	185.5	198	210.5	235.5	248	260.5	285.5	298
L2	162.5	175	187.5	200	225	237.5	250	275	287.5
L3	100	116	132	148	164	180	196	212	228
L4	17.5	15.5	14	12	16.5	15	13	17.5	16

Note) Width of SI unit applicable to "E": Matsushita Electric Works, Ltd. and "G": Rockwell Automation, Inc. widens to [24.3 mm]. For further information, please consult with SMC.

(mm)

Stations n	2 stations	3	4	5	6	7	8	9	10 stations
L1	185.5	198	223	235.5	248	260.5	285.5	298	310.5
L2	175	187.5	212.5	225	237.5	250	275	287.5	300
L3	118	134	150	166	182	198	214	230	246
L4	14.5	13	17.5	15.5	14	12	16.5	15	13

Stations n	11 stations	12	13	14	15	16 stations
L1	335.5	348	360.5	373	398	410.5
L2	325	337.5	350	362.5	387.5	400
L3	262	278	294	310	326	342
L4	17.5	16	14	12.5	17	15

Note) Width of SI unit applicable to "E": Matsushita Electric Works, Ltd. and "G": Rockwell Automation, Inc. widens to [24.3 mm]. For further information, please consult with SMC.