# EX120 Integrated Type (for Output) Serial Transmission System

## Series SV

### How to Order Manifold

#### SI Unit Part No.

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Protocol type</th>
<th>SI unit part no.</th>
<th>A, B port size (Metric)</th>
<th>A, B port size (Inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Without SI unit</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>F1</td>
<td>NKE Corp.: Uni-wire System</td>
<td>EX120-SM1</td>
<td>One-touch fitting for ø12</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>H</td>
<td>NKE Corp.: Uni-wire H System</td>
<td>EX120-SUH1</td>
<td>One-touch fitting for ø16</td>
<td>5/8&quot;</td>
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<tr>
<td>J1</td>
<td>SUNX Corp.: S-LINK (16 output points)</td>
<td>EX120-SCS1</td>
<td>One-touch fitting for ø12</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>J2</td>
<td>SUNX Corp.: S-LINK (8 output points)</td>
<td>EX120-SCS2</td>
<td>One-touch fitting for ø12</td>
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<tr>
<td>Q</td>
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<td>EX120-SDN1</td>
<td>One-touch fitting for ø12</td>
<td>1/2&quot;</td>
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<tr>
<td>R1</td>
<td>OMRON Corp.: CompoBus/S (8 output points)</td>
<td>EX120-SCM3</td>
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<td>OMRON Corp.: CompoBus/S (16 output points)</td>
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<td>V</td>
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<td>EX120-SCM7</td>
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<td>ZB</td>
<td>CompoNet™ (Positive common)</td>
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<td>EX120-SCM2</td>
<td>One-touch fitting for ø12</td>
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</tbody>
</table>

#### Valve stations

- **Double specifications**
  - (1) Double wiring specifications: Single, double, 3 position and 4 position solenoid valves can be used on all manifold assemblies. Note 1) Double wiring specifications: Single, double, 3 position and 4 position solenoid valves can be used on all manifold assemblies. Use of a single solenoid will result in an unused control signal. If this is not desired, order a specified layout.
  - Note 2) Specified layout: Indicate wiring specifications on a manifold specification sheet. (Note that double, 3 and 4 position valves cannot be used where a single solenoid has been specified.)

#### DIN rail length specified

<table>
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<tr>
<th>Nil</th>
<th>Standard length</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>3 stations Run the standard length</td>
</tr>
<tr>
<td>16</td>
<td>For 16 stations Run the standard length</td>
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</tbody>
</table>

#### Mounting

- **D** DIN rail mounting (With DIN rail)
- **D0** DIN rail mounting (Without DIN rail)
- **D3** For 3 stations (Specify a longer rail in the specified column; a specified layout or a specified manifold when a longer DIN rail is specified.)
- **D10** DIN rail mounting (For 10 stations)
- **D16** DIN rail mounting (For 16 stations)

- In the case of DD, only DIN rail fittings are attached.

### Notes

- Refer to page 1650 to 1652 for the details of EX120 Integrated type (for output) serial transmission system.
- Refer to Table 21-1 (DIN-S404) for details on CompoNet™.

**Approved**

*Courtesy of Steven Engineering, Inc.*
How to Order Manifold Assembly

Ordering example (SV1000)

Manifold
SSSV1-16S3AD-06B-C6 (1 set)

Double solenoid
SV1200-5FU (2 sets)

Single solenoid
SV1100-5FU (4 sets)

How to Order Solenoid Valves

SV 1 1 0 0  -  5 F

Series
1 SV1000
2 SV2000
3 SV3000
4 SV4000

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
A 4 position dual 3 port valve: N.C./N.C.
B 4 position dual 3 port valve: N.O./N.O.
C 4 position dual 3 port valve: N.C./N.O.

Pilot type
Nil Internal pilot
R External pilot

* External pilot specifications is not available for 4 position dual 3 port valves.

Made to Order
X90 Main valve fluoro rubber (Refer to page 448.)

Manual override
Nil: Non-locking push type
D: Push-turn locking slotted type

Light/Surge voltage suppressor
U With light/surge voltage suppressor
R With surge voltage suppressor

Rated voltage
5 24 VDC

Back pressure check valve
Nil None
K Built-in

* Built-in back pressure check valve type is applicable to Series SV1000 only.
* Back pressure check valve is not available for 3 position Valve.

Refer to Specific Product Precautions 2 on page 450.
Series SV

Dimensions: Series SV1000 for EX120 Integrated Type (for Output) Serial Transmission System

- Cassette base manifold : SS5V1-16S3 D- [Stations] (S, R, RS)

- When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.
- External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.

<table>
<thead>
<tr>
<th>L Dimension</th>
<th>2</th>
<th>3</th>
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</table>

[With External Pilot Specifications]

[With option]
EX120 Integrated Type (for Output)
Serial Transmission System  Series SV

Dimensions: Series SV2000 for EX120 Integrated Type (for Output) Serial Transmission System

- Cassette base manifold: SS5V2-16S3 (S, R, RS)

- When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.
- External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.

<table>
<thead>
<tr>
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<th>L3</th>
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</tbody>
</table>

When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.

- External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.

---

**With External Pilot Specifications**

- DIN rail holding screw
- Light/Surge voltage suppressor
- Block separation lever
- Silencer (Air discharge port)
Series SV

Dimensions: Series SV1000 for EX120 Integrated Type (for Output) Serial Transmission System

- When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.
- External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.

[With External Pilot Specifications]

[With option]

Dimensions are the ones for SV1300-.

L Dimension

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</table>

P=10.5

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Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
EX120 Integrated Type (for Output) Serial Transmission System **Series SV**

**Dimensions: Series SV2000 for EX120 Integrated Type (for Output) Serial Transmission System**

- **Tie-rod base manifold:** SS5V2-10S3
- **Stations:** L (S, R, RS) - (D)

- When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.
- External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.

**With External Pilot Specifications**

- One-touch fitting
  - [(P), 3/5(E) port]
  - Applicable tubing O.D.: ø10 ø3/8"
- One-touch fitting
  - [4(A), 2(B) port]
  - Applicable tubing O.D.: ø4, ø5/32" ø6, ø1/4" ø8, ø5/16"

**With option**

- Individual SUP spacer
- Individual EXH spacer
- Interface regulator: SV2000- M1
- Interface regulator: SV2000- 00

**L Dimension**

<table>
<thead>
<tr>
<th>L</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
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<td>256</td>
<td>272</td>
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<td>304</td>
</tr>
</tbody>
</table>

**SI unit**

- Light/Surge voltage suppressor
- Manual override
  - Press and turn for the locking type. (4(A) port side: Orange, 2(B) port side: Green)
- DIN rail holding screw (For DIN rail mounting)
- Individual SUP spacer
- Individual EXH spacer
- Interface regulator: SV2000- M1
- Interface regulator: SV2000- 00

**Dimensions**

- (Stations 1 to 10)
- (Station n)

**Notation:**

- **L1:** Dimension
- **L2:** Dimension
- **L3:** Dimension
- **L4:** Dimension
- **L5:** Dimension
- **L Dimension:** N : Stations

---

**SI unit**

- Light/Surge voltage suppressor
- Manual override
  - Press and turn for the locking type. (4(A) port side: Orange, 2(B) port side: Green)
- DIN rail holding screw (For DIN rail mounting)
- Individual SUP spacer
- Individual EXH spacer
- Interface regulator: SV2000- M1
- Interface regulator: SV2000- 00

**Dimensions**

- (Stations 1 to 10)
- (Station n)
**Series SV**

**Dimensions: Series SV3000 for EX120 Integrated Type (for Output) Serial Transmission System**

- **Tie-rod base manifold**: SS5V3-10S3-D (Stations) [S, R, RS] C11, N11 (-D)
- When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.
- External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.

---

**With External Pilot Specifications**

- **One-touch fitting (1(F), 3(S) port) Applicable tubing O.D.: ø12, ø3/8”**
- **One-touch fitting (4(A), 2(B) port) Applicable tubing O.D.: ø8, ø5/16, ø10, ø3/8”**

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**External Pilot Specifications**

- **Silencer (Air discharge port) (Built-in silencer specifications)**
- **Manual override** Press and turn for the locking type. (4(A) port side: Orange 2(B) port side: Green)

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**L Dimension**

<table>
<thead>
<tr>
<th>L</th>
<th>2</th>
<th>3</th>
<th>4</th>
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Dimensions: Series SV4000 for EX120 Integrated Type (for Output) Serial Transmission System

- Tie-rod base manifold: SS5V4-10S3 (Stations L1, L2, L3, L4, L5, L n)

When P, E port outlets are indicated on the U side or D side, the P, E ports on the opposite side are plugged.

External pilot port positions and silencer discharge port positions are the same as P, E port outlet positions.

[With External Pilot Specifications]

- One-touch fitting:
  - 1(P), 3(E) port
    - Applicable tubing O.D.: ø12, ø3/8" (P, E port)
  - 4(A), 2(B) port
    - Applicable tubing O.D.: ø8, ø5/16" (A, B port)
    - ø10, ø3/8" (A, B port)

[With option]

- Individual SUP spacer
- Individual EXH spacer
- Interface regulator

SV4000- M1
SV4000- 00

Series SV

Dimensions (for mounting):
- Rail mounting hole pitch: 12.5" (Station n) - (Station 1)
- Manual override: Press and turn for the locking type. (4(A) port side: Orange, 2(B) port side: Green)

- Light/Surge voltage suppressor

S0700
VQ
VQ4
VQ5
VQC
VQZ
SQ
VFS
VFR
VQ7

[SI unit]

Silencer (Air discharge port)
(Built-in silencer specifications)

[X: External pilot port]

[PE: Pilot EXH port]

[With option]

Individual SUP spacer
Individual EXH spacer
Interface regulator
"SV4000 M1"
"SV4000 00"

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