


IO-Link Compatible Product



SI Unit

SI Unit
EX260-SIL1




- IO-Link version V1.1
- Process data length 4-byte output
- Transmission speed COM3 (230.4 kbps)
- Minimum cycle time 0.8 ms

| Series | Number of outputs | IO-Link port type |
|------------|-------------------|-------------------|
| EX260-SIL1 | 32 outputs | Class B |

IP67

Electro-Pneumatic Regulator

Electro-Pneumatic Regulator
ITV10□0-X395
ITV20□0-X395
ITV30□0-X395




- IO-Link version V1.1
- Process data length 2-byte input/2-byte output
- Transmission speed COM3 (230.4 kbps)
- Minimum cycle time 0.7 ms
- IO-Link port type Class A

| Series | Set pressure range |
|------------------------------|--------------------------------------|
| ITV1010/ITV2010/ITV3010-X395 | 0.72 to 14.5 psi (0.005 to 0.1 MPa) |
| ITV1030/ITV2030/ITV3030-X395 | 0.72 to 72.5 psi (0.005 to 0.5 MPa) |
| ITV1050/ITV2050/ITV3050-X395 | 0.72 to 130.5 psi (0.005 to 0.9 MPa) |

IP65

Step Motor Controller

Step Motor Controller
JXCL1



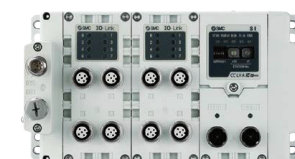
- IO-Link version V1.1
- Process data length 14-byte input/22-byte output
- Transmission speed COM3 (230.4 kbps)
- Minimum cycle time 2.4 ms
- IO-Link port type Class A

| Series | Number of axes | Compatible motor |
|--------|----------------|---------------------------|
| JXCL1 | 1 axis | Step motor (Servo/24 VDC) |

IP40

IO-Link Master

IO-Link Master
EX600-GILB-X60



CC-LINK IE-FIELD ONLY

- IO-Link version V1.1
- Process data length 32-byte input/32-byte output (per port)
- IO-Link port type Class A

| Series | Number of ports | PLC communication protocol |
|----------------|-----------------|----------------------------|
| EX600-GILB-X60 | 4 ports | CC-Link IE Field |

IP67

Accessories

Please contact SMC for the communication cable with connector.

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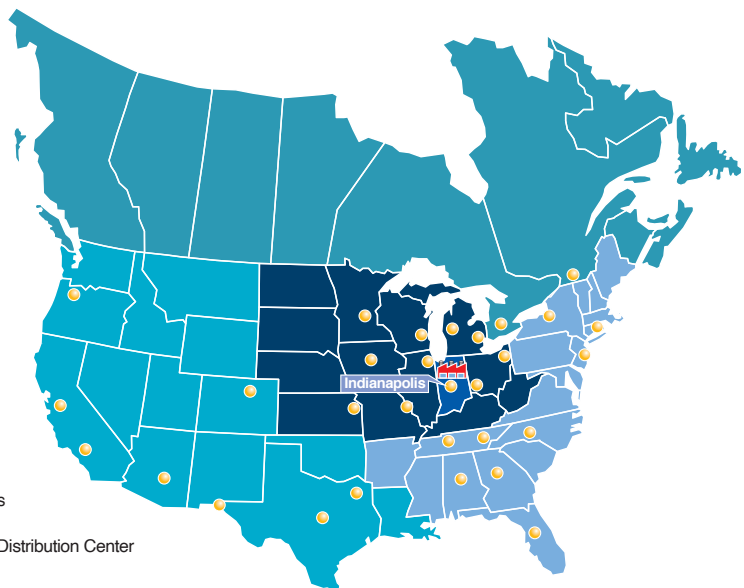
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AT RRD 2.5M



IO-Link Compatible Products





3-Screen Display
High-Precision Digital Pressure Switch
ZSE20B(F)-L/ ISE20B-L Series



3-Screen Display
High-Precision Digital Pressure Switch
ISE7□ Series
For Air



3-Screen Display
High-Precision Digital Pressure Switch
ISE7□G Series
For General Fluids



3-Color Display
Digital Flow Switch for Water
PF3W7□



Actuator Position Sensor
D-MP□ Series



SI Unit
EX260-SIL1



Electro-Pneumatic Regulator
ITV10□0/20□0/30□0-X395

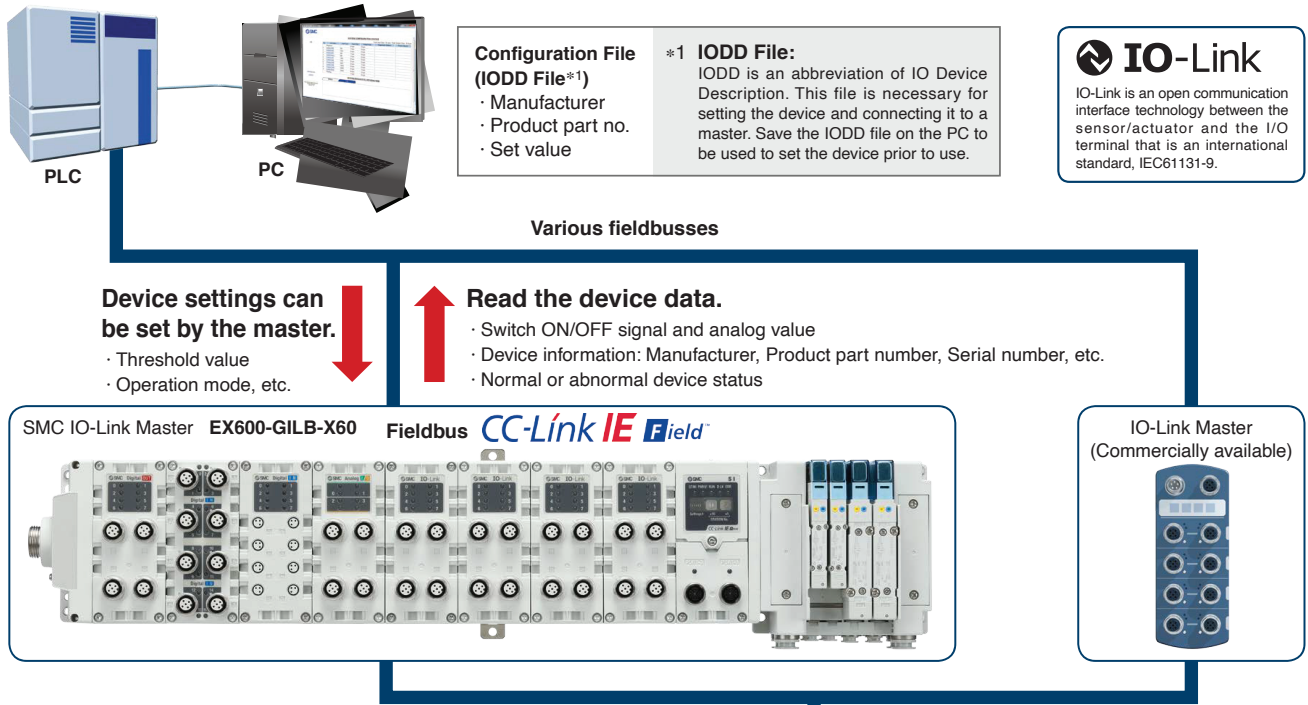


Step Motor Controller
JXCL1 Series



IO-Link Master
EX600-GILB-X60

NCE18-6A



Applications

Pressure Sensor (Employs predictive maintenance for the early detection of declining adsorption capacity)

- Monitors switch ON/OFF signals and analog values to determine the wear of the pad.
- Changes the threshold value according to the situation concerning the wear of the pad and the supply pressure.

For the predictive maintenance of cooling water problems

- Monitors flow rate and temperature "switch ON/OFF signals" and "analog values" to determine the cooling status. The process and cooling status can be compared.

Electro-Pneumatic Regulator (For the manufacturing of various products)

- The set pressure value can be changed to control the indentation pressure applied to each workpiece.

Actuator Position Sensor (For the manufacturing of various machined products)

- Confirms the machining status and workpiece measurements.

Valve SI Unit (Employs preventive maintenance to prevent actuator malfunctions)

<Application Example>

Scheduled cylinder maintenance
The replacement time of the cylinder connected to the valve can be scheduled based on the valve cycle count. This enables scheduled maintenance to be performed before any unexpected cylinder failure occurs.

| Product | | 3-Screen Display High-Precision Digital Pressure Switch | 3-Screen Display High-Precision Digital Pressure Switch for Air | 3-Screen Display High-Precision Digital Pressure Switch for General Fluids | 3-Color Display Digital Flow Switch for Water |
|---------------------------------------|--------------|--|--|--|--|
| Series | | p. 03 ZSE20B(F) ISE20B | p. 03 1.0 MPa 1.6 MPa ISE70/ISE71 | p. 03 1.0 MPa 2.0 MPa 5.0 MPa 10 MPa ISE70G/ISE75G ISE76G/ISE77G | p. 03 PF3W704 PF3W720 PF3W740 |
| Process data size | | 2-byte input | 2-byte input | 2-byte input | 6-byte input |
| Diagnostic/Status monitoring function | Event data | Internal failure | ● | ● | ● |
| | | Abnormal internal temperature | ● | ● | ● |
| | | Outside of rated range | ● | ● | ● |
| | | Short-circuit detection | | OUT2 | |
| | | Open-circuit detection | | | |
| | | External power supply failure | | | |
| | | Other | | | |
| | Process data | Diagnostic bit | ● | ● | ● |

| Actuator Position Sensor | Valve SI Unit | Electro-Pneumatic Regulator | Step Motor Controller | Product | |
|---|--|---|----------------------------------|-------------------------------|---------------------------------------|
| p. 03 D-MP025/D-MP050 D-MP100/D-MP200 | p. 04 EX260-SIL1 | p. 04 ITV10□0-X395 ITV20□0-X395 ITV30□0-X395 | p. 04 JXCL1 | Series | |
| 2-byte input | 4-byte output | 2-byte input 2-byte output | 14-byte input 22-byte output | Process data size | |
| ● | ● | ● | | Internal failure | Event data |
| ● | ● | | | Abnormal internal temperature | |
| ● | | ● | | Outside of rated range | |
| | ● Valve output wiring | | | Short-circuit detection | |
| | ● Valve output wiring | | | Open-circuit detection | |
| | ● Valve power supply | | ● Control power supply | External power supply failure | Diagnostic/Status monitoring function |
| ● Reduced magnetic field strength | ● Number of valve operations exceeded | | ● Motor control related alarm | Other | |
| | | ● Set pressure reached | ● Motor control related alarm | Diagnostic bit | |
| | | | | Process data | |

Pressure Switches

High-Precision Digital Pressure Switch
ZSE20B(F)-L/ISE20B-L



- IO-Link version V1.1
- Process data length 2-byte input
- Transmission speed COM2 (38.4 kbps)
- Minimum cycle time 2.3 ms
- IO-Link port type Class A

| Series | Applicable fluid | Type | Rated pressure range |
|-----------|------------------|-------------------|-------------------------------------|
| ZSE20BF-L | Air | Compound pressure | -14.5 to 14.5 psi (-100 to 100 kPa) |
| ZSE20B-L | | Vacuum pressure | 0 to -14.5 psi (0 to -100 kPa) |
| ISE20B-L | | Positive pressure | 0 to 145 psi (0 to 11 MPa) |

IP65

High-Precision Digital Pressure Switch
ISE7□/7□G



- IO-Link version V1.1
- Process data length 2-byte input
- Transmission speed COM2 (38.4 kbps)
- Minimum cycle time 2.3 ms
- IO-Link port type Class A

| Series | Applicable fluid | Type | Rated pressure range |
|--------|----------------------------|-------------------|---------------------------------|
| ISE70 | Air | Positive pressure | 0 to 145 psi (0 to 1 MPa) |
| ISE71 | | | -0 to 232.06 psi (0 to 1.6 MPa) |
| ISE70G | -0 to 232 psi (0 to 1 MPa) | | |
| ISE75G | -0 to 290 psi (0 to 2 MPa) | | |
| ISE76G | General fluids | | -0 to 725.2 psi (0 to 5 MPa) |
| ISE77G | | | -0 to 1450.4 psi (0 to 10 MPa) |

IP67

Digital Flow Switch

Digital Flow Switch for Water
PF3W7□



- IO-Link version V1.1
- Process data length 6-byte input
- Transmission speed COM2 (38.4 kbps)
- Minimum cycle time 3.5 ms
- IO-Link port type Class A

| Series | Applicable fluid | Rated flow range |
|--------------|------------------|------------------------------------|
| PF3W704-X445 | Water | 0.018 to 0.14 cfm (0.5 to 4 L/min) |
| PF3W720-X445 | | 0.07 to 0.56 cfm (2 to 16 L/min) |
| PF3W740-X445 | | 0.18 to 1.41 cfm (5 to 40 L/min) |

IP65

Position Sensor

Actuator Position Sensor

Actuator stroke position is output with an analog signal.

D-MP025
D-MP050
D-MP100
D-MP200



- IO-Link version V1.1
- Process data length 2-byte input
- Transmission speed COM3 (230.4 kbps)
- Minimum cycle time 1.0 ms
- IO-Link port type Class A

| Series | Measurement range |
|---------|----------------------|
| D-MP025 | 0.98 inches (25 mm) |
| D-MP050 | 1.97 inches (50 mm) |
| D-MP100 | 3.93 inches (100 mm) |
| D-MP200 | 7.87 inches (200 mm) |

IP67