

IO-Link



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□-X445



Actuator Position Sensor

D-MP Series



SI Unit EX260-SIL1-X207/ X210



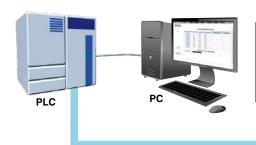
Electro-Pneumatic Regulator ITV10 0/20 0/30 0-X395



Step Motor Controller JXCL1 Series



IO-Link Master EX600-GILB-X60



Configuration File (IODD File*1)

- · Manufacturer
- · Product part no.
- · Set value

*1 IODD File:

IODD is an abbreviation of IO Device Description. This file is necessary for setting the device and connecting it to a master. Save the IODD file on the PC to be used to set the device prior to use.



IO-Link is an open communication interface technology between the sensor/actuator and the I/O terminal that is an international standard. IEC61131-9.

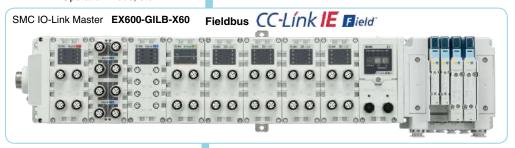
Various fieldbusses

Device settings can be set by the master.

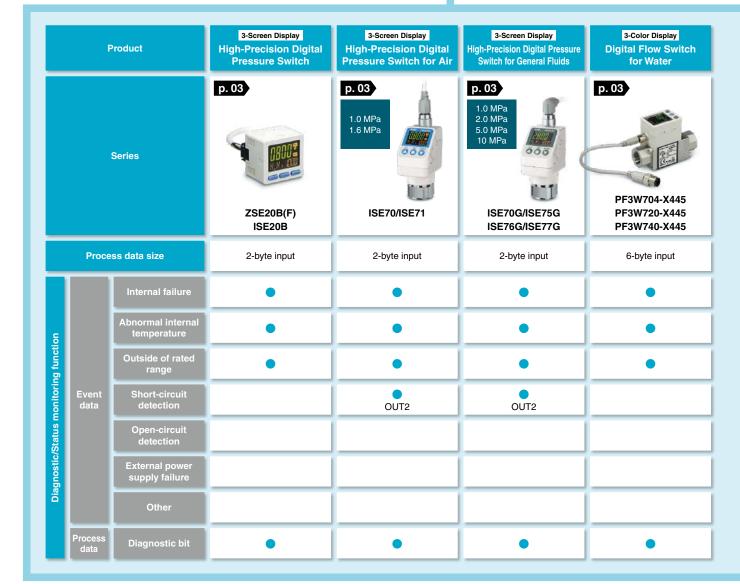
- · Threshold value
- · Operation mode, etc.

Read the device data.

- · Switch ON/OFF signal and analog value
- · Device information: Manufacturer, Product part number, Serial number, etc.
- · Normal or abnormal device status



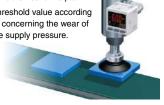




Applications

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.



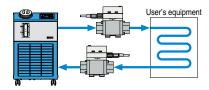
Actuator Position Sensor

(For the manufacturing of various machined products)

· Confirms the machining status and workpiece measurements.

For the predictive maintenance of cooling water problems

 \cdot 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.

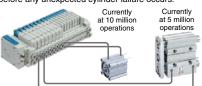


Valve SI Unit (Employs preventive maintenance to prevent actuator malfunctions)

<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.



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

 \cdot The set pressure value can be changed to control the indentation pressure applied to



Actuator Position Sensor	Valve SI Unit	Electro-Pneumatic Regulator	Step Motor Controller	Produc	ot
D-MP025/D-MP050 D-MP100/D-MP200	EX260-SIL1-X207 EX260-SIL1-X210	p. 04 ITV10□0-X395 ITV20□0-X395 ITV30□0-X395	p. 04	Series	
2-byte input	4-byte output	2-byte input 2-byte output	14-byte input 22-byte output	Process da	ta size
•	•	•		Internal failure	
•	•			Abnormal internal temperature	
•		•		Outside of rated range	g functio
	Valve output wiring			Short-circuit detection	p a trep trep trep trep trep trep trep trep
	Valve output wiring			Open-circuit detection	Status m
	Valve power supply		Control power supply	External power supply failure	gnostic/9
Reduced magnetic field strength	Number of valve operations exceeded		Motor control related alarm	Other	Diac
		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
 Process data length
 Transmission speed
 Minimum cycle time
 2.2 ms
 2.3 ms

Minimum cycle timeIO-Link port typeClass A

Series	Applicable fluid	Туре	Rated pressure range
ZSE20BF-L		Compound pressure	-100 to 100 kPa
ZSE20B-L	Air	Vacuum pressure	0 to -100 kPa
ISE20B-L		Positive pressure	0 to 1 MPa

High-Precision Digital Pressure Switch





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

IO-Link port type
 Class A

Series	Applicable fluid	Туре	Rated pressure range
ISE70	A:		0 to 1 MPa
ISE71	Air		0 to 1.6 MPa
ISE70G	Air General fluids	Positive pressure	0 to 1 MPa
ISE75G			0 to 2 MPa
ISE76G			0 to 5 MPa
ISE77G			0 to 10 MPa

Digital Flow Switch

Digital Flow Switch for Water

PF3W7□-X445



IO-Link version
 Process data length
 Transmission speed
 COM2 (38.4 kbps)

Minimum cycle timeIO-Link port typeClass A

Series	Applicable fluid	Rated flow range
PF3W704-X445		0.5 to 4 L/min
PF3W720-X445	Water	2 to 16 L/min
PF3W740-X445		5 to 40 L/min

Position Sensor

Actuator Position Sensor

Actuator stroke position is output with an analog signal.



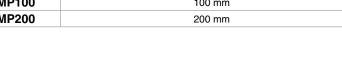
IO-Link version
 Process data length
 Transmission speed
 Minimum cycle time
 V1.1
 2-byte input
 COM3 (230.4 kbps)
 1.0 ms

Minimum cycle timeIO-Link port typeIO-Link port type

F	
Series	Measurement range
D-MP025	25 mm
D-MP050	50 mm
D-MP100	100 mm
D-MP200	200 mm



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SI Unit

SI Unit

EX260-SIL1-X207 EX260-SIL1-X210



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

 Minimum cycle time 0.8 ms

Series	Number of outputs	IO-Link port type
EX260-SIL1-X207	32 outputs	Class A
EX260-SIL1-X210	32 outputs	Class B

Electro-Pneumatic Regulator

Electro-Pneumatic Regulator

ITV10□0-X395 ITV20□0-X395 ITV30□0-X395



IO-Link version

2-byte input/2-byte output Process data length COM3 (230.4 kbps) Transmission speed

Minimum cycle time 0.7 ms IO-Link port type Class A

Series	Set pressure range
ITV1010/ITV2010/ITV3010-X395	0.005 to 0.1 MPa
ITV1030/ITV2030/ITV3030-X395	0.005 to 0.5 MPa
ITV1050/ITV2050/ITV3050-X395	0.005 to 0.9 MPa

Step Motor Controller

Step Motor Controller

JXCL1



IO-Link version

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)

IO-Link Master

IO-Link Master

EX600-GILB-X60



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

Accessories

Please contact SMC for the communication cable with connector.







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