



Solidot Fieldbus Solutions

Product Catalog V2.1





COMPANY INTRODUCTION

The core team of Solidot Technology was founded in 2012 and developed domestic slice I/O modules in the following year. In 2018, the company strategically focused on the R&D of bus I/O technologies and products. As a national high-tech enterprise, Solidot Technology has completed several rounds of equity financing. It has been accredited as a national-level specialized, refined, differential, and innovative "Little Giant" enterprise and a Nanjing Cultivated Unicorn Enterprise, and has established the Nanjing Engineering Technology Research Center for Automation Bus I/O Module Control.

At present, our company has an R&D team of nearly 100 members, including more than 10 industry experts, as well as complete laboratories for system integration testing, EMC testing and environmental testing. We own a 5,000-square-meter bus I/O production base, equipped with a Class 100,000 dust-free fully automatic SMT workshop, an automated assembly and testing workshop, and an intelligent logistics warehouse. Over the years, focusing on industrial bus technologies, Solidot's products have been widely used in 3C, new energy, logistics, welding, water treatment, intelligent buildings and other industries.



2012

Founded



100+

Intellectual property



9000+

Domestic Customers Served



600+

Overseas Customers Served

DEVELOPMENT HISTORY

- 2025** The slice I/O XB6S series obtained UL certification;
We were accredited as a national-level specialized, sophisticated, differentiated and innovative "Little Giant" enterprise.
- 2024** Solidot has launched the XBF series distributed/discrete I/O products featuring simplified wiring and has been recognized by the "Nanjing Automation Bus I/O Module Control Engineering Technology Research Center."
- 2023** Released X-bus2.0 backplane protocol;
Launched XB6S, a new generation of slice I/O;
Released Protocol Conversion Gateway to support multiple protocols.
- 2022** Completed multiple rounds of financing and gained strong support from industrial investors;
Released slice multi-channel temperature controller, which supports various bus protocols.
- 2021** Included in the list of unicorn enterprises cultivated in Nanjing;
Released the first slice stepper driver in China;
Supported various bus protocols.
- 2020** Awarded high-tech enterprise certification;
Released horizontal I/O supporting multiple bus protocols.
- 2019** Completed Pre-A round of financing led by well-known government capital;
Released X-bus1.0 backplane protocol;
Based on this protocol, the XB6 series high-performance slice I/O was launched.
- 2018** Went through business reorganization;
Refocused its business redefined its business priorities;
Completed angel funding round.

CERTIFICATIONS AND PATENTS

Certification Certificates



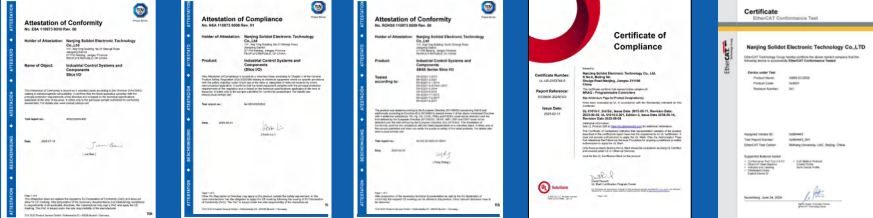
Patent Certificates



Computer Software Copyright Registration Certificates



Product Certification Certificates



INDUSTRY APPLICATIONS



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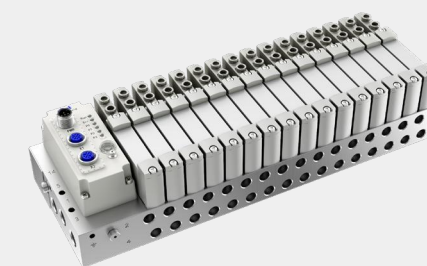
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Slice I/O

Supports a variety of bus protocols with rich functional modules. Equipped with diagnostic, alarm and exception logging functions, it can automatically diagnose bus issues without module-by-module inspection. The product has passed strict EMC testing, ensuring ultra-high immunity against interference and stable operation without disconnection.



Valve Terminal

Supports multiple bus protocols and can be used with our own brand of solenoid valves, as well as mainstream solenoid valve models from SMC, FESTO, CKD, AirTAC, and others. The base plate can be customized based on the solenoid valve models and the number of positions required by the customer.



IO-Link Bus I/O

Designed in compliance with IO-Link v1.1.3 standard, supporting multiple bus protocols such as PROFINET and EtherCAT. Features LED status indication and channel-level protection and diagnostics.



Protocol Gateway

Includes Serial Communication Modules, Slave Protocol Gateway Modules, and Master Protocol Gateway Modules. Featuring flexible configuration, simple configuration, and high-speed protocol conversion.



Discrete I/O

A single Bus Coupler supports up to 32 slave stations while occupying only one IP address. No dedicated cables or special tools are required, as standard industrial Ethernet cables are used. Three-wire sensor wiring provides power directly to sensors, eliminating the need for terminal blocks. Supports line, star, and hybrid topologies, with a wide range of product form factors and protection ratings to suit diverse application scenarios.



Industrial Switch

Includes Industrial Ethernet Switches and EtherCAT Junction Modules. Designed for high reliability, with support for standard DIN-rail mounting. Features built-in multiple protection mechanisms, fanless design, low power consumption, and excellent adaptability to industrial environments with stringent EMC requirements.



Integrated I/O

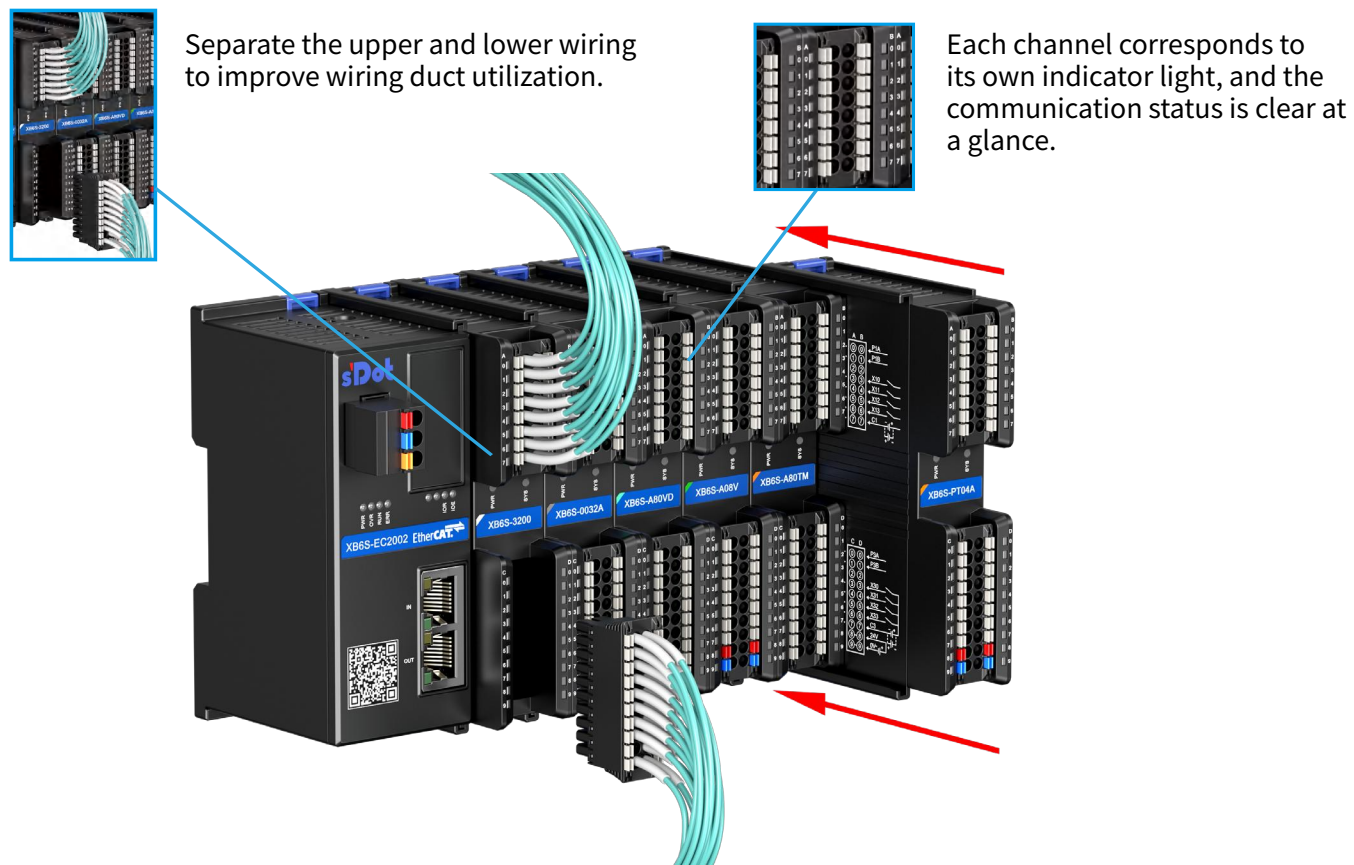
Supports multiple bus protocols with compact size, high speed, and convenient wiring. Equipped with high-speed ARM and dedicated ASIC chips for simple configuration and cascading. Available in vertical, horizontal, and IP67 versions to adapt to complex working environments.



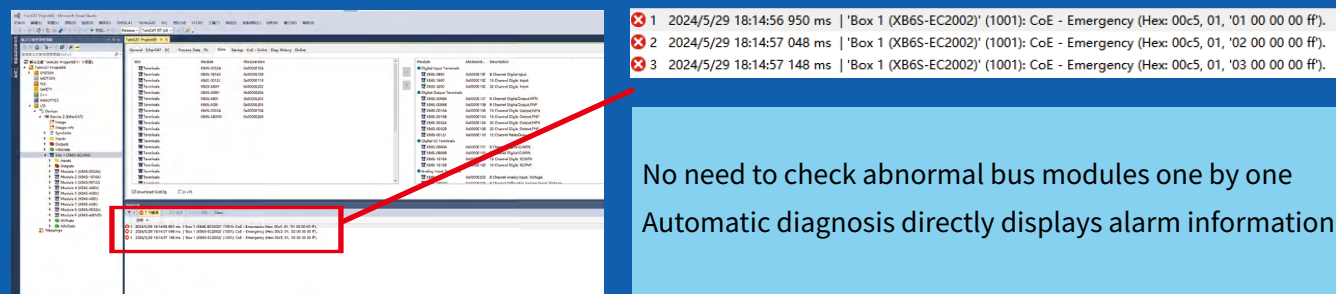
Motion Control Module

Features a rich range of motion control modules, including multi-protocol stepper driver modules, pulse positioning modules, PWM output modules, and encoder counter modules.

> Slice I/O Series Products

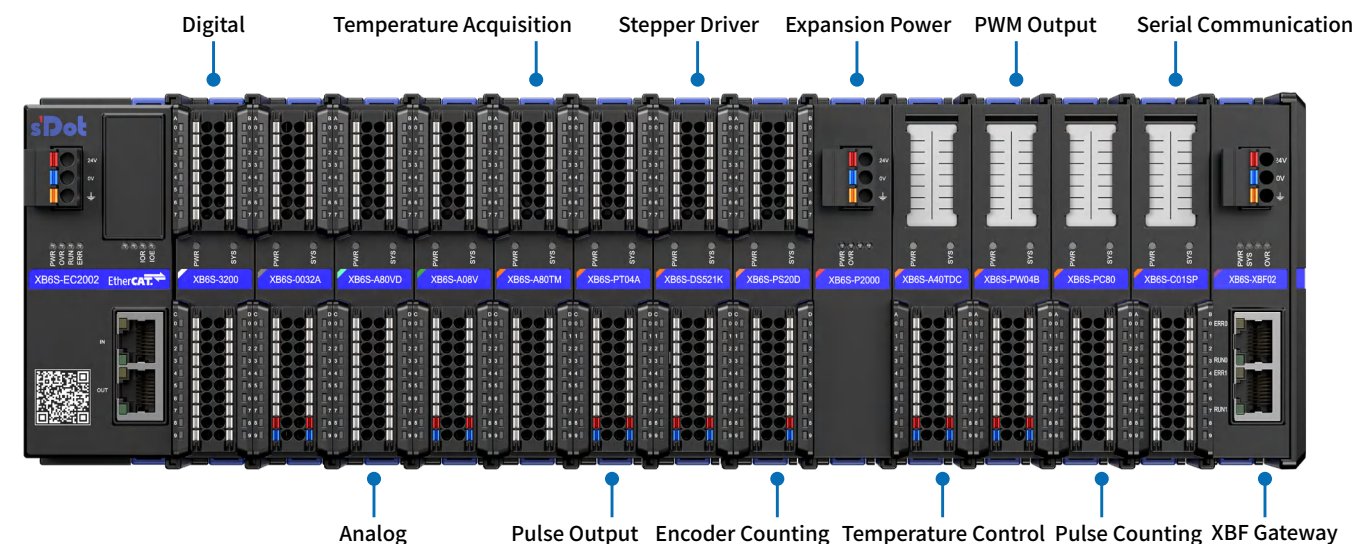


The XB6S series products feature diagnostic, alarm, and exception log recording functions, which can automatically diagnose bus problems without checking each module one by one.



- Real-time Monitoring Channel Status
- Visualized Network Configuration
- Easy Firmware Upgrade

Adapt to various bus protocols, with rich functional modules



The products have passed strict EMC testing, with excellent EMC performance and strong immunity to interference, ensuring stable communication

ESD (Electrostatic Discharge Immunity) Contact Discharge IEC 61000-4-2

Peer standard: $\pm 4\text{kV}$ (Performance criteria B)

XB6S standard: $\pm 8\text{kV}$ (Performance criteria B)

EFT/B (Electrical Fast Transient/Burst Immunity) IEC 61000-4-4

Peer standard: $\pm 2\text{kV}$ (power cable, Performance criteria B)

XB6S standard: $\pm 4\text{kV}$ (power cable, Performance criteria A)

Peer standard: $\pm 1\text{kV}$ (signal cable, Performance criteria B)

XB6S standard: $\pm 2\text{kV}$ (signal cable, Performance criteria A)

SURGE (Surge Immunity) IEC 61000-4-5

Peer standard: $\pm 0.5\text{kV}$ (cable to cable, Performance criteria B)

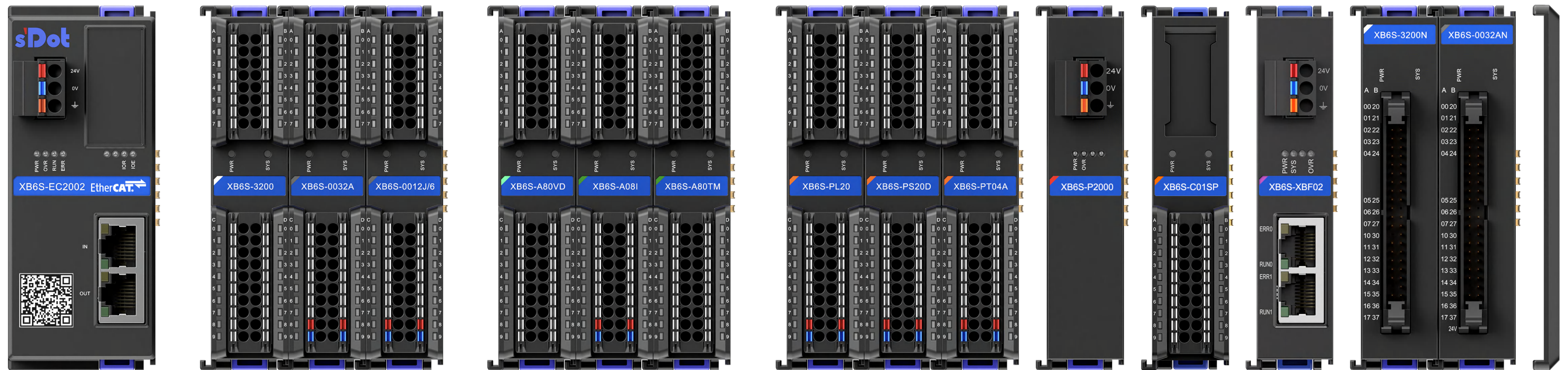
XB6S standard: $\pm 1\text{kV}$ (cable to cable, Performance criteria A)

Peer standard: $\pm 0.5\text{kV}$ (cable to ground, Performance criteria B)

XB6S standard: $\pm 2\text{kV}$ (cable to ground, Performance criteria A)

Performance criteria A:
When there is interference, the module works normally within the preset range;
Performance criteria B:
When there is interference, the module performance is reduced within the preset range. When the interference disappears, the module can recover automatically.

> XB6S Product Disassembly Diagram



Coupler protocol type

- PROFINET
- EtherCAT
- EtherNet/IP
- Modbus TCP
- CC-Link IE Field Basic
- CC-Link
- CC-Link IE TSN

Coupler (Integrated power supply)

- 32, 16, 8-channel Digital Input/Output
- 12-channel Relay Output

Digital Module

- 8, 4-channel Analog Input/Output, supporting voltage/current type
- 8, 4-channel Temperature Acquisition, supporting RTDs / thermocouples / resistance measurement

Analog Module

- 4-channel PTO Pulse Output Module
- 2-channel Incremental Encoder Counting Module
- 2-channel Absolute Encoder Counting Module
- 8-channel Pulse Counting & Frequency Measurement Module

Motion Control Module

- Expand system power supply and increase the number of expansion modules

Extension Power Module

- RS485/232/422 Interface
- Modbus RTU/ASCII
- Freeport

Serial Communication Module

- 2 Expansion Interfaces
- Slice-to-Discrete Conversion

Discrete Gateway

- 32-channel Digital Input/Output
- MIL connector cables and terminal blocks included

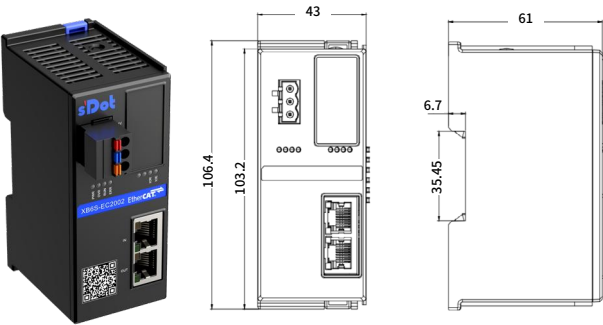
MIL Connector Module

- Backplane Bus Termination

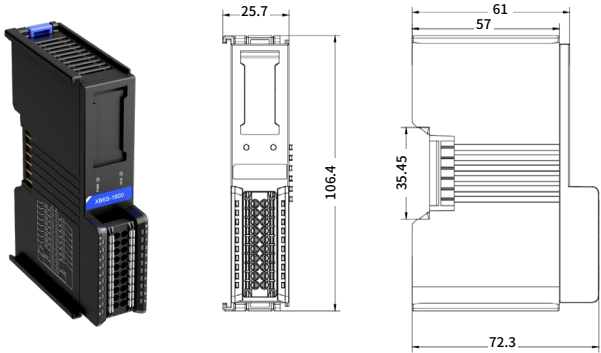
Terminal Cover

Slice I/O Dimensions

XB6S Bus Coupler Dimensions

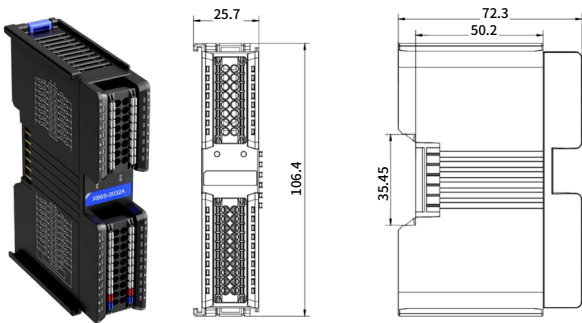


XB6S 16-Channel I/O Module Dimensions

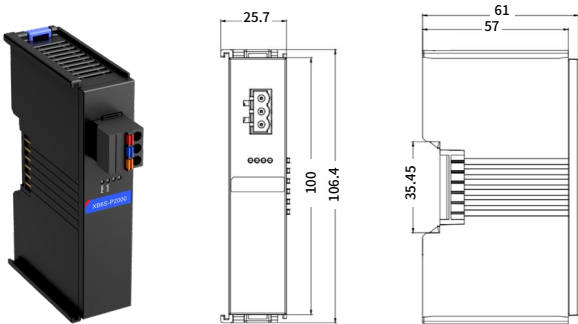


(unit: mm)

XB6S 32-Channel I/O Module Dimensions

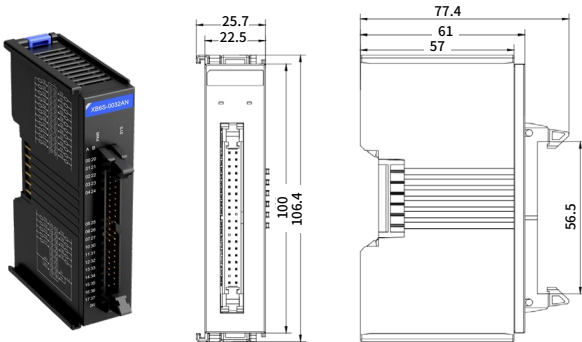


XB6S Expansion Power Module Dimensions

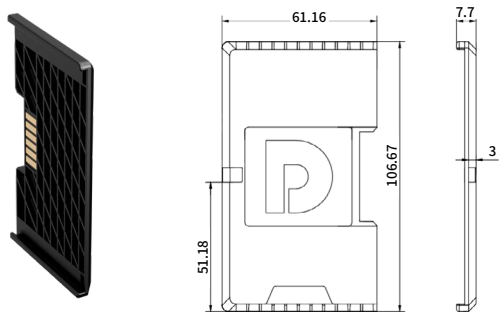


(unit: mm)

XB6S MIL Connector Module Dimensions



XB6S End Cover Dimensions



(unit: mm)

Slice I/O Model Overview

Coupler(Flagship)

1	XB6S-EC2002	EtherCAT coupler, integrated power supply, with cover
2	XB6S-PN2002	PROFINET coupler, integrated power supply, with cover
3	XB6S-EI2002	EtherNet/IP coupler, integrated power supply, with cover
4	XB6S-EI2002MX	EtherNet/IPcoupler, integrated power supply, with cover, supports Individual display and configuration on the KEYENCE platform
5	XB6S-MT2002	Modbus TCP coupler, integrated power supply, with cover
6	XB6S-CL2002	CC-Link coupler, integrated power supply, with cover
7	XB6S-CB2002	CC-Link IE Field Basic coupler, integrated power supply, with cover
8	XB6S-CB2002A	CC-Link IE Field Basic coupler, integrated power supply, with cover (supports discrete I/O)
9	XB6S-CT2002	CC-Link IE TSN coupler, integrated power supply, with cover

Coupler(Standard)

10	XB6S-EC2002-C	EtherCAT coupler, integrated power supply, with cover
11	XB6S-PN2002-C	PROFINET coupler, integrated power supply, with cover
12	XB6S-EI2002-C	EtherNet/IP coupler, integrated power supply, with cover
13	XB6S-EI2002MX-C	EtherNet/IPcoupler, integrated power supply, with cover, supports Individual display and configuration on the KEYENCE platform
14	XB6S-MT2002-C	Modbus TCP coupler, integrated power supply, with cover
15	XB6S-CB2002-C	CC-Link IE Field Basic coupler, integrated power supply, with cover
16	XB6S-CB2002A-C	CC-Link IE Field Basic coupler, integrated power supply, with cover (supports discrete I/O)

Digital Module		
1	XB6S-3200	32DI, NPN/PNP compatible, filter default 3ms
2	XB6S-1616A	16DI, NPN/PNP compatible, filter default 3ms, 16DO, NPN type, 0.5A
3	XB6S-0032A	32DO, NPN type, 0.5A
4	XB6S-1616B	16DI, NPN/PNP compatible, filter default 3ms, 16DO, PNP type, 0.5A
5	XB6S-0032B	32DO, PNP type, 0.5A
6	XB6S-3200N	32DI, NPN/PNP compatible, filter default 3ms, MIL connector type
7	XB6S-0032AN	32DO, NPN type, 0.1A, MIL connector type
8	XB6S-0032BN	32DO, PNP type, 0.1A, MIL connector type
9	XB6S-1600	16DI, NPN/PNP compatible, input filter default 3ms
10	XB6S-0016A	16DO, NPN type, 0.5A
11	XB6S-0016B	16DO, PNP type, 0.5A
12	XB6S-0800	8DI, NPN/PNP compatible, filter default 3ms
13	XB6S-0008A	8DO, NPN type, 0.5A
14	XB6S-0008B	8DO, PNP type, 0.5A
15	XB6S-0012J/6	12DO, relay, 2A (Note: "J" in model can be omitted, so XB6S-0012-J/6 is the same as XB6S-0012J6)

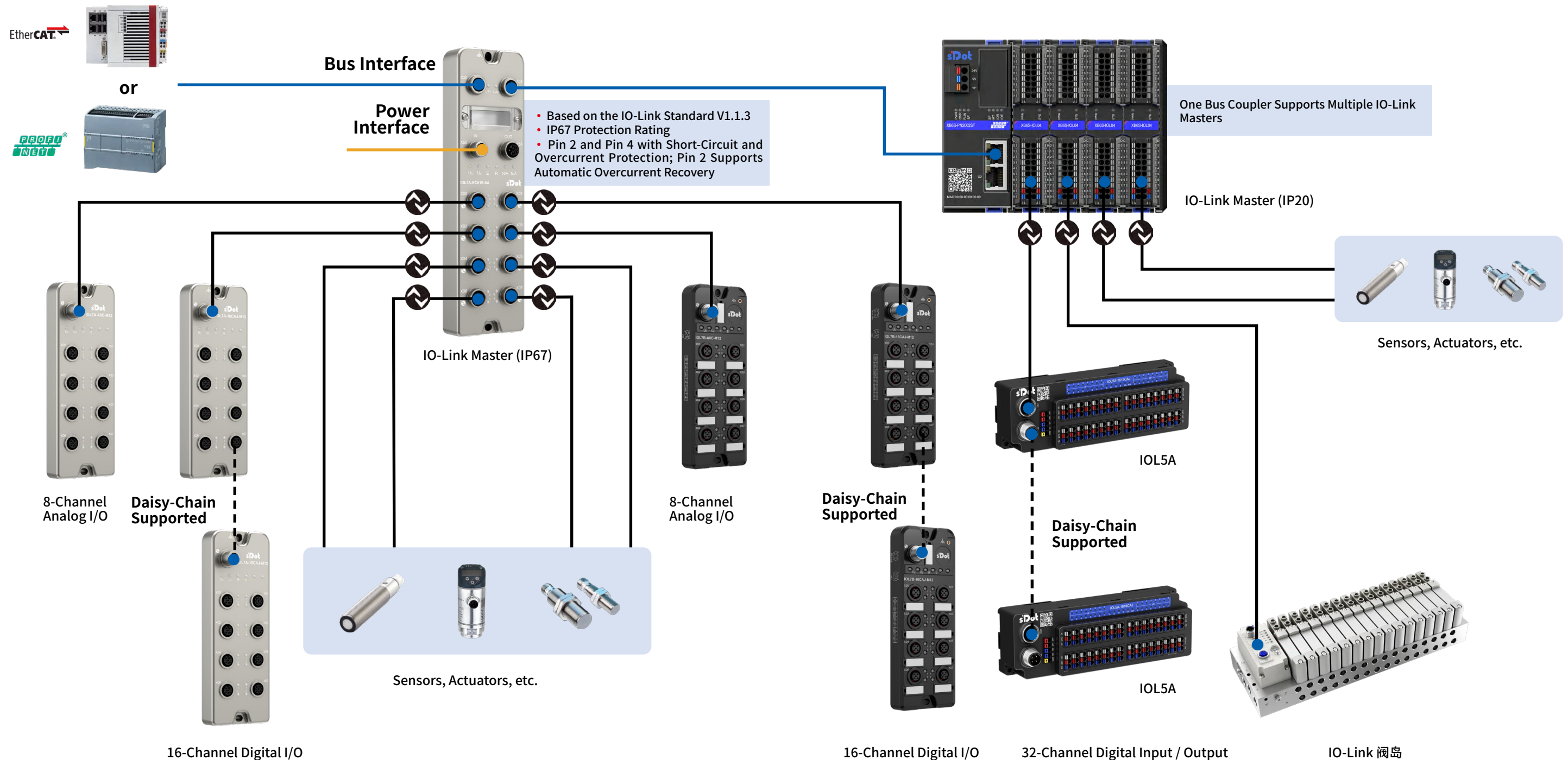
Analog Module		
16	XB6S-A80VD	U, 8-channel analog voltage input, differential signal, $\pm 0.1\%$ accuracy, multiple adjustable ranges
17	XB6S-A80ID	I, 8-channel analog current input, differential signal, $\pm 0.1\%$ accuracy, multiple adjustable ranges
18	XB6S-A80V	U, 8-channel analog voltage input, single-ended signal, $\pm 0.1\%$ accuracy, multiple adjustable ranges
19	XB6S-A80I	I, 8-channel analog current input, single-ended signal, $\pm 0.1\%$ accuracy, multiple adjustable ranges
20	XB6S-A40VD	U, 4-channel analog voltage input, differential signal, $\pm 0.1\%$ accuracy, multiple adjustable ranges
21	XB6S-A40ID	I, 4-channel analog current input, differential signal, $\pm 0.1\%$ accuracy, multiple adjustable ranges
22	XB6S-A40V	U, 4-channel analog voltage input, single-ended signal, $\pm 0.1\%$ accuracy, multiple adjustable ranges
23	XB6S-A40I	I, 4-channel analog current input, single-ended signal, $\pm 0.1\%$ accuracy, multiple adjustable ranges
24	XB6S-A08V	U, 8-channel analog voltage output, single-ended signal, $\pm 0.1\%$ accuracy, multiple adjustable ranges
25	XB6S-A08I	I, 8-channel analog current output, single-ended signal, $\pm 0.1\%$ accuracy, multiple adjustable ranges
26	XB6S-A04V	U, 4-channel analog voltage output, single-ended signal, $\pm 0.1\%$ accuracy, multiple adjustable ranges
27	XB6S-A04I	I, 4-channel analog current output, single-ended signal, $\pm 0.1\%$ accuracy, multiple adjustable ranges
28	XB6S-A80	8-channel analog input/output, voltage/current compatible
29	XB6S-A08	8-channel analog output module, voltage/current compatible
30	XB6S-A40	4-channel analog input module, voltage/current compatible
31	XB6S-A04	4-channel analog output module, voltage/current compatible

Temperature Module		
32	XB6S-A80TM	8-channel RTD and thermocouple temperature acquisition
33	XB6S-A40TM	4-channel RTD and thermocouple temperature acquisition

Function Module		
34	XB6S-PC80	8-channel pulse counting, 24V-NPN/PNP type, 100kHz
35	XB6S-PL20	2-channel incremental encoder counting, 24V-NPN/PNP type, 1MHz
36	XB6S-PL20D	2-channel incremental encoder counting, 5V-differential, 1MHz
37	XB6S-PS20D	2-channel SSI absolute encoder counting, 5V-differential, 2MHz
38	XB6S-PT04A	4-channel PTO pulse output, 24V-NPN type, 200kHz
39	XB6S-C01SP	1-channel RS485/RS232/RS422 3-in-1 serial communication interface
40	XB6S-C02MD	2-channel Modbus master communication module
41	XB6S-C04MD	4-channel Modbus master communication module
42	XB6S-XBF02	XB6S series slice to discrete interface gateway, 2 expansion interfaces
43	XB6S-IOL04	4-Port IO-Link master (x-bus), class B

Other Module		
44	XB6S-P2000	Expansion power supply
45	XB6S-C18_2	Common terminal (COM) expansion module
46	XB6S-CVR00	End cover
47	TM40-32AE	32-position LED terminal block, NPN
48	TM40-32BE	32-position LED terminal block, PNP
49	TM40-1000-1	Terminal block supporting cable 1 m (compatible with NPN input, NPN & PNP output)
50	TM40-3000-1	Terminal block supporting cable 3 m (compatible with NPN input, NPN & PNP output)
51	TM40-5000-1	Terminal block supporting cable 5 m (compatible with NPN input, NPN & PNP output)
52	TM40-1000-2	1 m Terminal Block Cable (for PNP Input Only)
53	TM40-3000-2	3 m Terminal Block Cable (for PNP Input Only)
54	TM40-5000-2	5 m Terminal Block Cable (for PNP Input Only)

IO-Link I/O System Overview



IOL7A Series (Metal Housing)

- IP67 Protection Rating
- LED Status Indication
- Channel-Level Protection and Diagnostics

IOL7B Series (Plastic Housing)

- Protection Rating
- LED Status Indication
- Channel-Level Protection and Diagnostics

IP20 Housing

- Push-in Spring Terminal Blocks
- LED Status Indication
- Channel-Level Protection and Diagnostics

IO-Link Valve Terminal

> IO-Link Fieldbus I/O

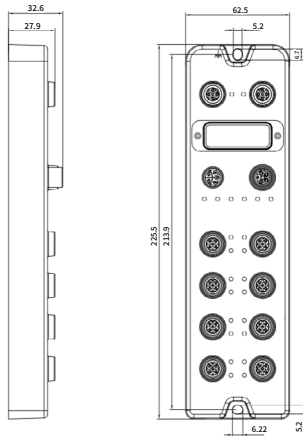
>> IO-Link Master

IO-Link Master



- 1 Up to IP67 protection rating
- 2 Designed in accordance with IO-Link v1.1.3 specification
- 3 Supports multiple fieldbus protocols
- 4 Connects to various IO-Link standard slaves and standard digital switch signals
- 5 LED status indication, channel-level protection and diagnostics

IO-Link Master Dimensions



(unit: mm)

	Model	Description
1	IOL7A-EC01B-8A	EtherCAT 8×Class-A port IO-Link Master
2	IOL7A-PN01B-8A	PROFINET 8×Class-A port IO-Link Master

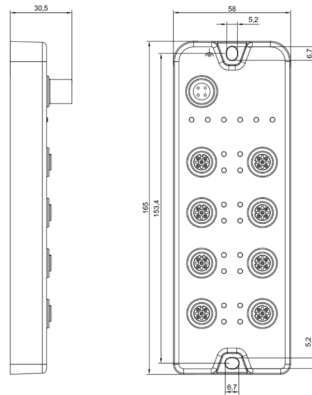
>> IO-Link HUB—IOL7A

IO-Link HUB IOL7A



- 1 Up to IP67 protection rating
- 2 Simple and fast wiring, simultaneous power supply and data transmission
- 3 Designed in accordance with IO-Link v1.1.3 specification
- 4 Connects to various IO-Link standard masters
- 5 LED status indication, channel-level protection and diagnostics
- 6 Metal Housing Ensures Excellent Protection and EMI Resistance

IO-Link HUB IOL7A Dimensions



(unit: mm)

	Model	Description
1	IOL7A-1600B-M12	IO-Link HUB, 16-channel digital input, PNP
2	IOL7A-0016B-M12	IO-Link HUB, 16-channel digital output, PNP
3	IOL7A-0016BS-M12	IO-Link HUB, 16-channel digital output, PNP, supports channel-level diagnostic function
4	IOL7A-16CB-M12	IO-Link Hub, 16-channel configurable digital I/O, PNP
5	IOL7A-16CBS-M12	O-Link Hub, 16-channel configurable digital I/O, PNP, supports channel-level diagnostic function
6	IOL7A-1600A-M12	IO-Link HUB, 16-channel digital input, NPN
7	IOL7A-0016A-M12	IO-Link HUB, 16-channel digital output, NPN
8	IOL7A-0016AS-M12	IO-Link HUB, 16-channel digital output, NPN, supports channel-level diagnostic function
9	IOL7A-16CA-M12	IO-Link Hub, 16-channel configurable digital I/O, NPN
10	IOL7A-16CAS-M12	IO-Link Hub, 16-channel configurable digital I/O, NPN, supports channel-level diagnostic function
11	IOL7A-A8C-M12	IO-Link Hub, 8-channel analog voltage/current compatible I/O module
12	IOL7A-16CBJ-M12	IO-Link Hub, 16-channel configurable I/O, PNP, supports secondary expansion
13	IOL7A-16CAJ-M12	IO-Link Hub, 16-channel configurable I/O, NPN, supports secondary expansion

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IO-Link HUB—IOL7B

IO-Link HUB IOL7B



- 1

Up to IP67 protection rating
- 2

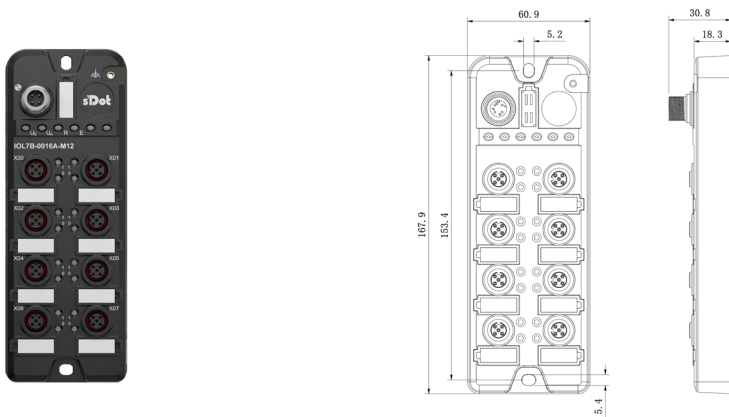
Simple and fast wiring, with power supply and data transmission over a single cable
- 3

Designed in compliance with the IO-Link V1.1.3 specification
- 4

Compatible with all standard IO-Link masters
- 5

LED status indication, channel-level protection and diagnostics

IO-Link HUB IOL7B Dimensions



(unit: mm)

	Model	Description
1	IOL7B-1600B-M12	IO-Link Hub, 16-channel digital Input, PNP
2	IOL7B-0016B-M12	IO-Link Hub, 16-channel digital output, PNP
3	IOL7B-0016BS-M12	IO-Link Hub, 16-channel digital output, PNP, with short-circuit diagnostics
4	IOL7B-16CB-M12	IO-Link Hub, 16-channel configurable I/O, PNP
5	IOL7B-16CBS-M12	IO-Link Hub, 16-channel configurable I/O, PNP, with short-circuit diagnostics
6	IOL7B-1600A-M12	IO-Link Hub, 16-channel digital Input, NPN
7	IOL7B-0016A-M12	IO-Link Hub, 16-channel digital output, NPN
8	IOL7B-0016AS-M12	IO-Link Hub, 16-channel digital output, NPN, with short-circuit diagnostics
9	IOL7B-16CA-M12	IO-Link Hub, 16-channel configurable I/O, NPN
10	IOL7B-16CAS-M12	IO-Link Hub, 16-channel configurable I/O, NPN, with short-circuit diagnostics
11	IOL7B-A8C-M12	IO-Link Hub, 8-channel configurable analog voltage/current I/O module
12	IOL7B-16CBJ-M12	IO-Link Hub, 16-channel configurable I/O, PNP, supports secondary expansion
13	IOL7B-16CAJ-M12	IO-Link Hub, 16-channel configurable I/O, NPN, supports secondary expansion

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IO-Link HUB—IOL5

IO-Link HUB IOL5



- 1

Designed in accordance with IO-Link v1.1.3 specification
- 2

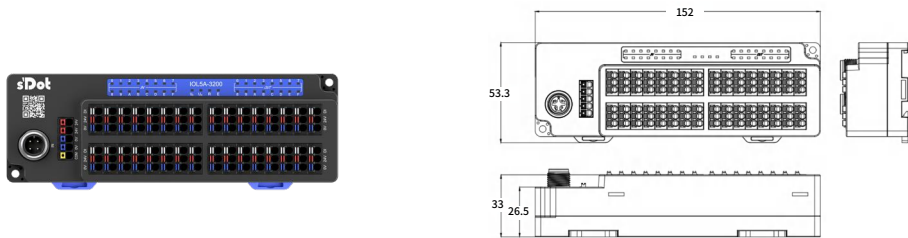
Connects to various IO-Link standard masters
- 3

LED status indication, channel-level protection and diagnostics
- 4

Convenient and fast wiring, using push-in spring terminals
- 5

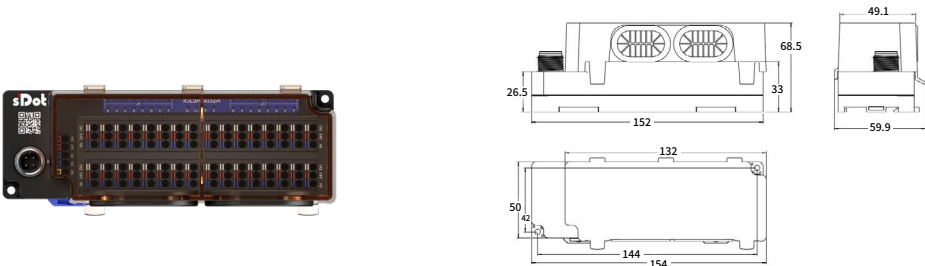
Supports optional dust covers

IO-Link HUB IOL5 Dimensions



(unit: mm)

IO-Link HUB IOL5 Dimensions(with Dust Cover)



(unit: mm)

	Model	Description (Optional dust cover)
1	IOL5A-3200	32-channel digital input IO-Link HUB, NPN/PNP compatible, IP20
2	IOL5A-0032A	32-channel digital output IO-Link HUB, NPN, IP20
3	IOL5A-0032B	32-channel digital output IO-Link HUB, PNP, IP20
4	IOL5A-1616CA	16-channel input, 16-channel output configurable IO-Link HUB, input NPN/PNP compatible, output NPN, IP20
5	IOL5A-1616CB	16-channel input, 16-channel output configurable IO-Link HUB, input NPN/PNP compatible, output PNP, IP20
6	IOL5A-1616CAJ	16-channel input, 16-channel output configurable IO-Link HUB, input NPN/PNP compatible, output NPN, supports daisy-chain, IP20
7	IOL5A-1616CBJ	16-channel input, 16-channel output configurable IO-Link HUB, input NPN/PNP compatible, output PNP, supports daisy-chain, IP20
8	XBF5-FCZ-1	IOL5 series 32-channel module dust cover

>> IO-Link Cable

IO-Link Cable	Use cases		Model	Description	Product Description
PLC to IO-Link Master Communication	Pre-Molded Cable	Fixed installation, PVC, shielded	AZG/R-1.0CS	M12 straight/RJ45, D-code, 4-pin male, 1 meter, green, shielded, PVC	1.0 Indicates a length of 1 m; other lengths follow the same format
		Fixed installation, PUR, shielded	AZG/R-1.0RS	M12 straight/RJ45, D-code, 4-pin male, 1 meter, green, shielded, PUR	/
		Drag chain installation, PUR, shielded	AZG/R-1.0RST	M12 straight/RJ45, D-code, 4-pin male, 1 meter, green, shielded, PUR, 5 million flex cycles	Drag Chain Life: 5 million flex cycles
	Field-Wireable Connector	M12 Male Connector	AZG-LP	M12 straight, D-code, 4-pin male, screw-type wiring, plastic housing	Unshielded connector
		M12 Female Connector	AZG-LM	M12 straight, D-code, 4-pin male, screw-type wiring, metal housing, shielded	Shielded connector
IO-Link Master Daisy-Chain Communication	Pre-Molded Cable	Fixed installation, PVC, shielded	AZG/AZG-1.0CS	M12 straight, D-code, 4-pin male, 1 meter, green, shielded, PVC	/
		Fixed installation, PUR, shielded	AZG/AZG-1.0RS	M12 straight, D-code, 4-pin male, 1 meter, green, shielded, PUR	/
		Drag chain installation, PUR, shielded	AZG/AZG-1.0RST	M12 straight, D-code, 4-pin male, 1 meter, green, shielded, PUR, 5 million flex cycles	Drag Chain Life: 5 million flex cycles
	Field-Wireable Connector	M12 Male Connector	AZG-LP	M12 straight, D-code, 4-pin male, screw-type wiring, plastic housing	Unshielded connector
		M12 Female Connector	AZG-LM	M12 straight, D-code, 4-pin male, screw-type wiring, metal housing, shielded	Shielded connector
Dedicated Power Supply for IO-Link Master	Pre-Molded Cable	Fixed installation, PVC, unshielded	BZM/S-1.0C	M12 Straight/Flying Leads, L-code, 5-core female, 1 meter, black, Unshielded, PVC	/
		Fixed installation, PUR, shielded	BZM/S-1.0RS	M12 Straight/Flying Leads, L-code, 5-core Female, 1 meter, black, shielded, PUR	/
		Drag chain installation, PUR, unshielded	BZM/S-1.0RT	M12 Straight/Flying Leads, L-code, 5-core female, 1 meter, black unshielded, PUR, 5 million cycles	Drag Chain Life: 5 million flex cycles
	Field-Wireable Connector	M12 Female Connector	BZM-LP	M12 straight, L-code, 5-pin female, screw-type wiring, plastic housing	Unshielded connector
IO-Link Master Daisy-Chain Power Supply	Pre-Molded Cable	Fixed installation, PVC, unshielded	BZG/BZM-1.0C	M12 straight, L-code, 5-pin male/5-pin female, 1 meter, black, unshielded, PVC	/
		Fixed installation, PUR, shielded	BZG/BZM-1.0RS	M12 straight, L-code, 5-pin male/5-pin female, 1 meter, black, shielded, PUR	/
		Drag chain installation, PUR, unshielded	BZG/BZM-1.0RT	M12 straight, L-code, 5-pin male/5-pin female, 1 meter, black, unshielded, PUR, 5 million flex cycles	Drag Chain Life: 5 million flex cycles
	Field-Wireable Connector	M12 Male Connector	BZG-LP	M12 straight, L-code, 5-pin male, screw-type wiring, plastic housing	Unshielded connector
		M12 Female Connector	BZM-LP	M12 straight, L-code, 5-pin female, screw-type wiring, plastic housing	Unshielded connector
IO-Link Master to IO-Link Hub	Pre-Molded Cable	Fixed installation, PVC, unshielded	CZG/CZM-1.0C	M12 straight, A-code, 5-pin male/5-pin female, 1 meter, black, unshielded, PVC	/
		Fixed installation, PVC, shielded	CZG/CZM-1.0CS	M12 straight, A-code, 5-pin male/5-pin female, 1 meter, black, shielded, PVC	/
		Fixed installation, PUR, shielded	CZG/CZM-1.0RS	M12 straight, A-code, 5-pin male/5-pin female, 1 meter, black, shielded, PUR	/
		Drag chain installation, PUR, unshielded	CZG/CZM-1.0RT	M12 straight, A-code, 5-pin male/5-pin female, 1 meter, black, unshielded, PUR, 5 million flex cycles	Drag Chain Life: 5 million flex cycles
		Drag chain installation, PUR, shielded	CZG/CZM-1.0RST	M12 straight, A-code, 5-pin male/5-pin female, 1 meter, black, shielded, PUR, 5 million flex cycles	Drag Chain Life: 5 million flex cycles
	Field-Wireable Connector	M12 Male Connector	CZG-LP	M12 straight, A-code, 5-pin male, screw-type wiring, plastic housing	Unshielded connector
		M12 Female Connector	CZM-LP	M12 straight, A-code, 5-pin female, screw-type wiring, plastic housing	Unshielded connector
IO-Link Hub to Sensors/Actuators	Field-Wireable Connector	M12 Male Connector	CZG-LP	M12 straight, A-code, 5-pin male, screw-type wiring, plastic housing	Unshielded connector
		M12 Male Connector	DZG-LP-D	M12 straight, A-code, 4-pin male, screw-type wiring, plastic housing, dual cable exits	Dual cable outlet, unshielded connector
	Pre-Molded Cable	Fixed installation, PVC, unshielded	CZG/S-1.0C	M12 straight/Flying Leads, A-code, 5-core male, 1 meter, black, unshielded, PVC	/
		Fixed installation, PVC, unshielded	CZG/CZM-1.0C	M12 straight, A-code, 5-pin male/5-pin female, 1 meter, black, unshielded, PVC	/
	Y-Splitter	M12 to M8	DYG/EYM	M12/M8 Y-Splitter, A-code, 4-pin male/3-pin female	Typically used with M8 Field-Wireable connector (EZG-LP)
		M12 to M12	DYG/GYM	M12/M12 Y-Splitter, A-code, 4-pin male/3-pin female	M12 female connector, 5-pin design with only 3 pins connected.
	Y-Splitter with extension cable	M12 to M8	DYG/EYM-0.1C	M12/M8 Y-Splitter, A-code, 4-core male/3-core female, with 0.1-meter PVC extension cable (length customizable)	/
		M12 to M12	DYG/GYM-0.1C	M12/M12 Y-Splitter, A-code, 4-core male/3-core female, with 0.1-meter PVC extension cable (length customizable)	M12 female connector, 5-pin design with only 3 pins connected.

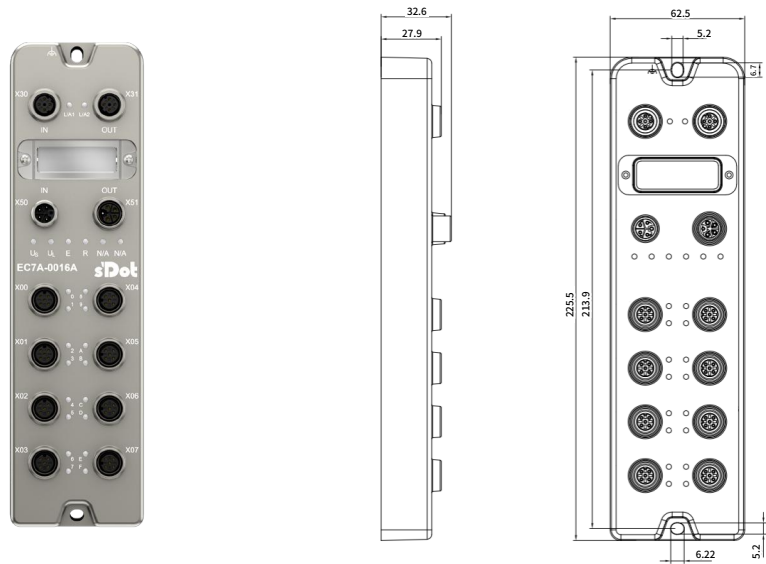
> IP67 FIELDBUS I/O

IP67 Fieldbus I/O



- 1 General I/O and bus interfaces, no custom cables required, high compatibility
- 2 Diverse indicator function design, module status is clear at a glance
- 3 IP67 protection rating, suitable for harsh industrial environments
- 4 Based on high-performance communication chip, fast speed

IP67 Fieldbus I/O dimension



(unit: mm)



Single-wire Digital I/O (Metal housing)		
1	EC7A-1600A	EtherCAT, Integrated I/O, 16DI, NPN
2	EC7A-1600B	EtherCAT, Integrated I/O, 16DI, PNP
3	EC7A-0016A	EtherCAT, Integrated I/O, 16DO, NPN, 0.5A
4	EC7A-0016B	EtherCAT, Integrated I/O, 16DO, PNP, 0.5A
5	EC7A-0808A	EtherCAT, Integrated I/O, 8DI, 8DO, NPN, 0.5A
6	EC7A-0808B	EtherCAT, Integrated I/O, 8DI, 8DO, PNP, 0.5A

7	PN7A-1600A	PROFINET, Integrated I/O, 16DI, NPN
8	PN7A-1600B	PROFINET, Integrated I/O, 16DI, PNP
9	PN7A-0016A	PROFINET, Integrated I/O, 16DO, NPN, 0.5A
10	PN7A-0016B	PROFINET, Integrated I/O, 16DO, PNP, 0.5A
11	PN7A-0808A	PROFINET, Integrated I/O, 8DI, 8DO, NPN, 0.5A
12	PN7A-0808B	PROFINET, Integrated I/O, 8DI, 8DO, PNP, 0.5A
13	PN7A-0016A+	PROFINET, Integrated I/O, 16DI, DO configurable, NPN
14	PN7A-0016B+	PROFINET, Integrated I/O, 16DI, DO configurable, PNP

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IP67 Filedbus I/O Cable

IP67 Filedbus I/O Cable	Use cases		Model	Description	Product Description
PLC to IP67 Filedbus I/O Communication	Pre-Molded Cable	Fixed installation, PVC, shielded	AZG/R-1.0CS	M12 straight/RJ45, D-code, 4-pin male, 1 meter, green, shielded, PVC	1.0 Indicates a length of 1 m; other lengths follow the same format
		Fixed installation, PUR, shielded	AZG/R-1.0RS	M12 straight/RJ45, D-code, 4-pin male, 1 meter, green, shielded, PUR	/
		Drag chain installation, PUR, shielded	AZG/R-1.0RST	M12 straight/RJ45, D-code, 4-pin male, 1 meter, green, shielded, PUR, 5 million flex cycles	Drag Chain Life: 5 million flex cycles
	Field-Wireable Connector	M12 Male Connector	AZG-LP	M12 straight, D-code, 4-pin male, screw-type wiring, plastic housing	Unshielded connector
			AZG-LM	M12 straight, D-code, 4-pin male, screw-type wiring, metal housing, shielded	Shielded connector

IP67 Filedbus I/O Daisy-Chain Communication	Pre-Molded Cable	Fixed installation, PVC, shielded	AZG/AZG-1.0CS	M12 straight, D-code, 4-pin male, 1 meter, green, shielded, PVC	/
		Fixed installation, PUR, shielded	AZG/AZG-1.0RS	M12 straight, D-code, 4-pin male, 1 meter, green, shielded, PUR	/
		Drag chain installation, PUR, shielded	AZG/AZG-1.0RST	M12 straight, D-code, 4-pin male, 1 meter, green, shielded, PUR, 5 million flex cycles	Drag Chain Life: 5 million flex cycles
	Field-Wireable Connector	M12 Male Connector	AZG-LP	M12 straight, D-code, 4-pin male, screw-type wiring, plastic housing	Unshielded connector
			AZG-LM	M12 straight, D-code, 4-pin male, screw-type wiring, metal housing, shielded	Shielded connector

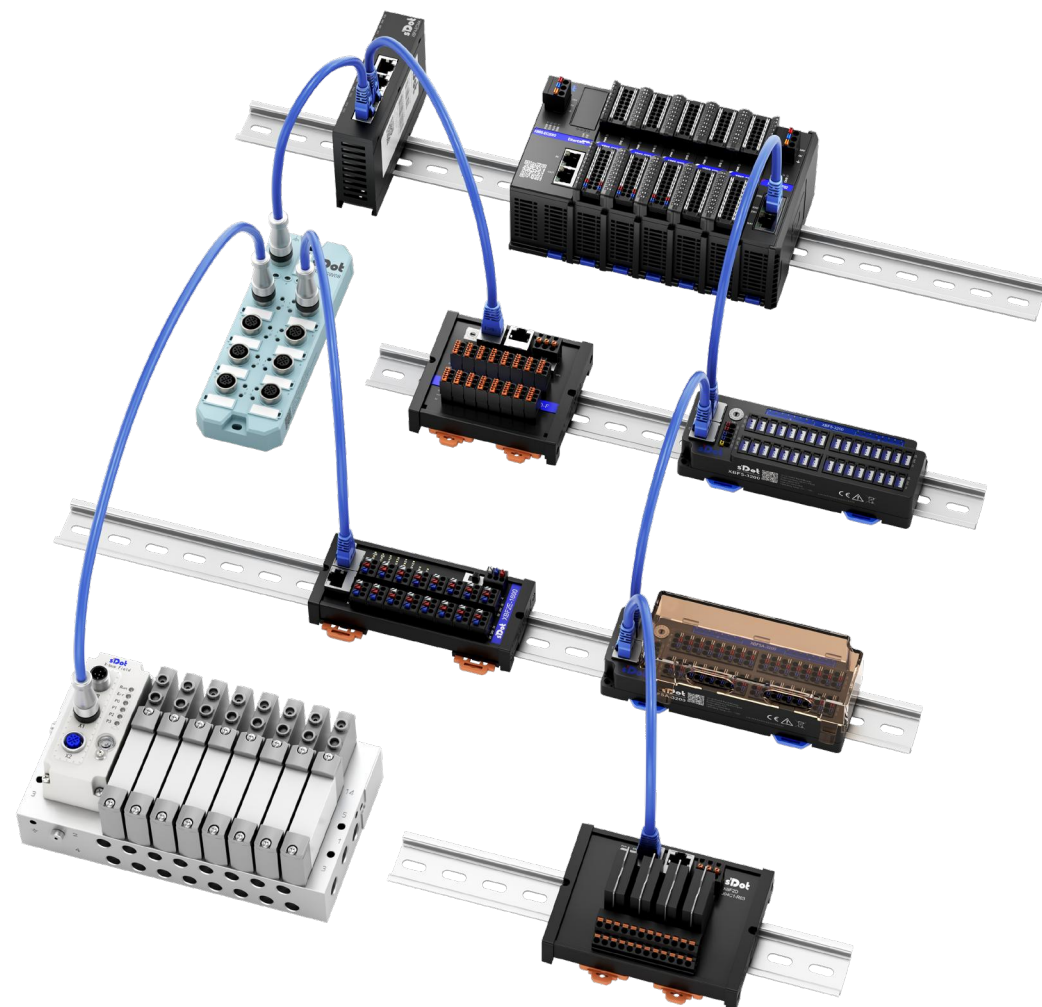
Dedicated Power Supply for IP67 Filedbus I/O	Pre-Molded Cable	Fixed installation, PVC, unshielded	BZM/S-1.0C	M12 Straight/Flying Leads, L-code, 5-core female, 1 meter, black, Unshielded, PVC	/
		Fixed installation, PUR, shielded	BZM/S-1.0RS	M12 Straight/Flying Leads, L-code, 5-core Female, 1 meter, black, shielded, PUR	/
		Drag chain installation, PUR, unshielded	BZM/S-1.0RT	M12 Straight/Flying Leads, L-code, 5-core female, 1 meter, black unshielded, PUR, 5 million cycles	Drag Chain Life: 5 million flex cycles
	Field-Wireable Connector	M12 Female Connector	BZM-LP	M12 straight, L-code, 5-pin female, screw-type wiring, plastic housing	Unshielded connector

IP67 Filedbus I/O Daisy-Chain Power Supply	Pre-Molded Cable	Fixed installation, PVC, unshielded	BZG/BZM-1.0C	M12 straight, L-code, 5-pin male/5-pin female, 1 meter, black, unshielded, PVC	/
		Fixed installation, PUR, shielded	BZG/BZM-1.0RS	M12 straight, L-code, 5-pin male/5-pin female, 1 meter, black, shielded, PUR	/
		Drag chain installation, PUR, unshielded	BZG/BZM-1.0RT	M12 straight, L-code, 5-pin male/5-pin female, 1 meter, black, unshielded, PUR, 5 million flex cycles	Drag Chain Life: 5 million flex cycles
	Field-Wireable Connector	M12 Male Connector	BZG-LP	M12 straight, L-code, 5-pin male, screw-type wiring, plastic housing	Unshielded connector
		M12 Female Connector	BZM-LP	M12 straight, L-code, 5-pin female, screw-type wiring, plastic housing	Unshielded connector

IP67 Filedbus I/O to Sensors/Actuators	Field-Wireable Connector	M12 Male Connector	CZG-LP	M12 straight, A-code, 5-pin male, screw-type wiring, plastic housing	Unshielded connector
		M12 Male Connector	DZG-LP-D	M12 straight, A-code, 4-pin male, screw-type wiring, plastic housing, dual cable exits	Dual cable outlet, unshielded connector
	Pre-Molded Cable	Fixed installation, PVC, unshielded	CZG/S-1.0C	M12 straight/Flying Leads, A-code, 5-core male, 1 meter, black, unshielded, PVC	/
		Fixed installation, PVC, unshielded	CZG/CZM-1.0C	M12 straight, A-code, 5-pin male/5-pin female, 1 meter, black, unshielded, PVC	/
	Y-Splitter	M12 to M8	DYG/EYM	M12/M8 Y-Splitter, A-code, 4-pin male/3-pin female	Typically used with M8 Field-Wireable connector (EZG-LP)
		M12 to M12	DYG/GYM	M12/M12 Y-Splitter, A-code, 4-pin male/3-pin female	M12 female connector, 5-pin design with only 3 pins connected.
	Y-Splitter with extension cable	M12 to M8	DYG/EYM-0.1C	M12/M8 Y-Splitter, A-code, 4-core male/3-core female, with 0.1-meter PVC extension cable (length customizable)	/
		M12 to M12	DYG/GYM-0.1C	M12/M12 Y-Splitter, A-code, 4-core male/3-core female, with 0.1-meter PVC extension cable (length customizable)	M12 female connector, 5-pin design with only 3 pins connected.

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Discrete I/O Products



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Significant Cost Reduction for I/O Solutions

- ▶ No special cables or tools required; communication via standard industrial Ethernet cables
- ▶ Three-wire system powers sensors, eliminating terminal blocks and simplifying wiring
- ▶ One coupler supports up to 32 slave stations while occupying only one IP address.

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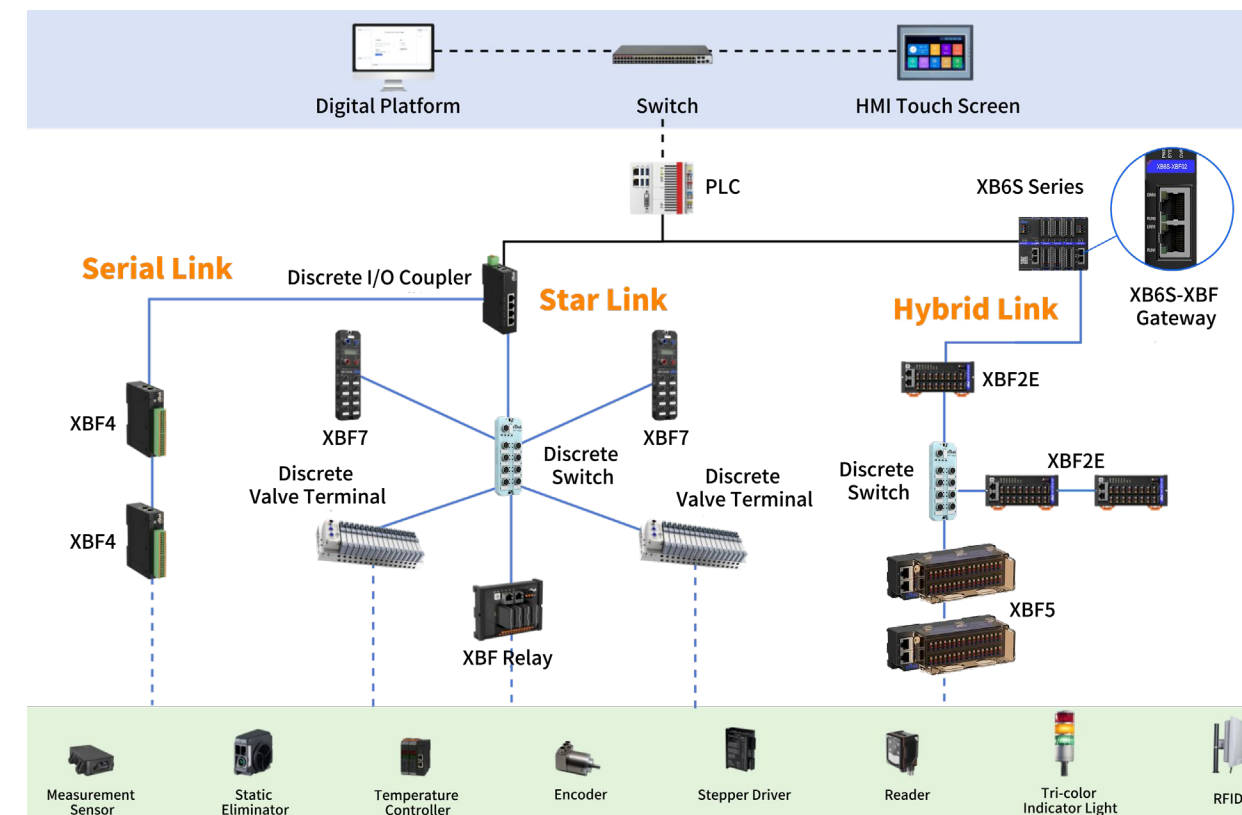
Flexible Adaptation to Various Application Scenarios

- ▶ Available in multiple product types, including IP20, IP67, dust cover, and waterproof enclosure versions.
- ▶ Supports a wide range of interface options, including pluggable/non-pluggable Euroblock terminals, E-CON, M12, M8 and more.
- ▶ Available in various form factors, including vertical, horizontal, and valve terminal configurations.

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Supports Multiple Topology Structures

Supports serial, star, and hybrid topologies. Users can freely select based on actual application scenarios and requirements, improving the flexibility of system layout.



Discrete I/O can be connected to slice I/O via a gateway. All slave stations in this topology are standard slaves, and their positions are interchangeable.

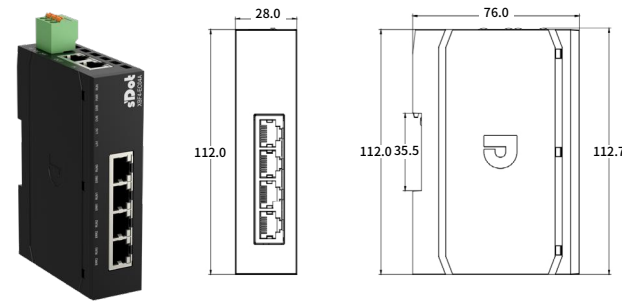
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Products can be customized quickly to meet personalized requirements efficiently.

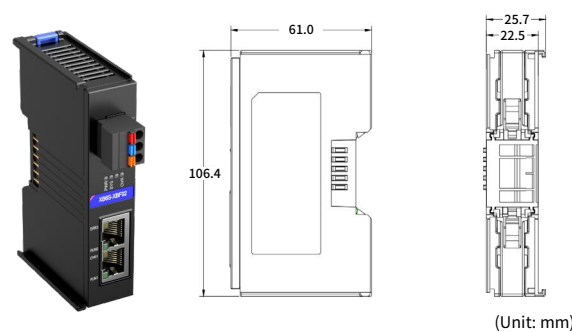
Customization Type	Customization Content					Lead Time
	Software Function Customization	I/O Point Change	Certification Compliance (CE, RoHS, UL, etc.)	Model Modification	Other Requirements	
Simple Customization	✓	✓	-	-	-	2 Weeks
Complex Customization	✓	✓	✓	-	-	1 Month
	✓	✓	✓	✓	✓	2-3 Months

Discrete I/O Model Overview

XBF4 Series Coupler Dimensions

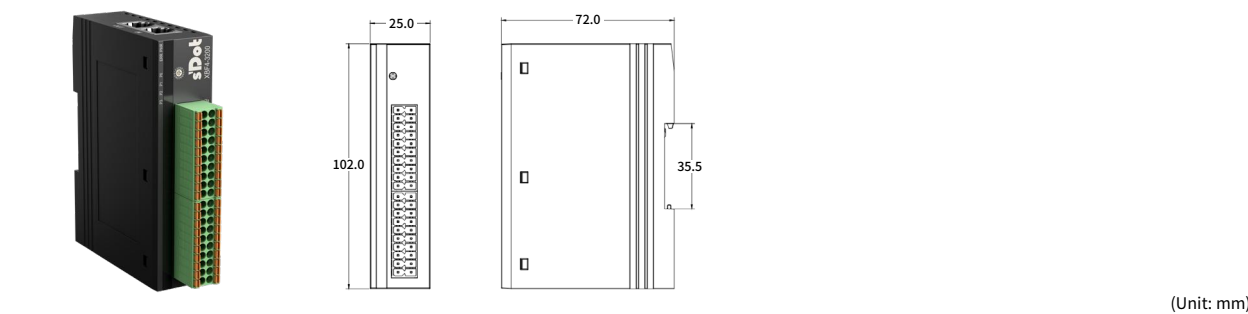


XB6S-XBF02 Dimensions



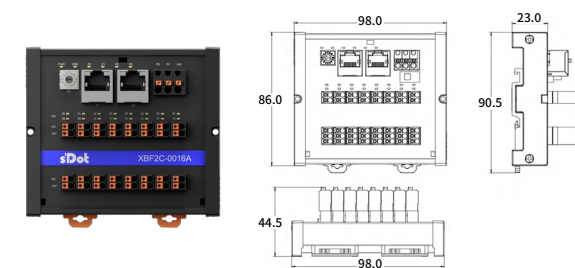
	Model	Description
1	XBF4-EC04A	EtherCAT coupler (General version)
2	XBF4-EC04	EtherCAT coupler (Optimized version for Beckhoff, Omron, and Keyence)
3	XBF4-PN04	PROFINET coupler
4	XB6S-XBF02	XB6S series slice I/O-to-discrete I/O gateway with 2 expansion ports

XBF4 Series Dimensions

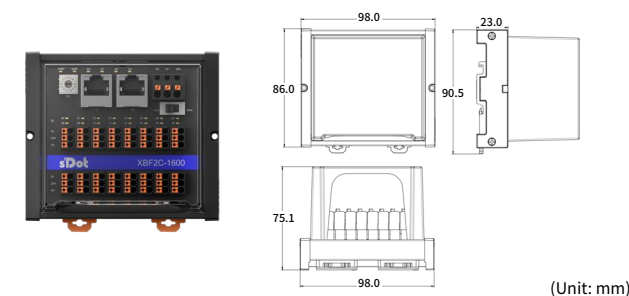


	Model	Description
1	XBF4-3200	32DI, NPN/PNP compatible, filter default 3ms
2	XBF4-1616A	16DI, NPN/PNP compatible, filter default 3ms, 16DO, NPN type
3	XBF4-1616B	16DI, NPN/PNP compatible, filter default 3ms, 16DO, PNP type
4	XBF4-0032A	32DO, NPN type
5	XBF4-0032B	32DO, PNP type
6	XBF4-1600	16DI, NPN/PNP compatible, filter default 3ms
7	XBF4-0016A	16DO, NPN type
8	XBF4-0016B	16DO, PNP type
9	XBF4-A80	8-channel analog current/voltage compatible input
10	XBF4-A08	8-channel analog current/voltage compatible output
11	XBF4-A40	4-channel analog current/voltage compatible input
12	XBF4-A04	4-channel analog current/voltage compatible output

XBF2C Series Dimensions(Without Dust Cover)

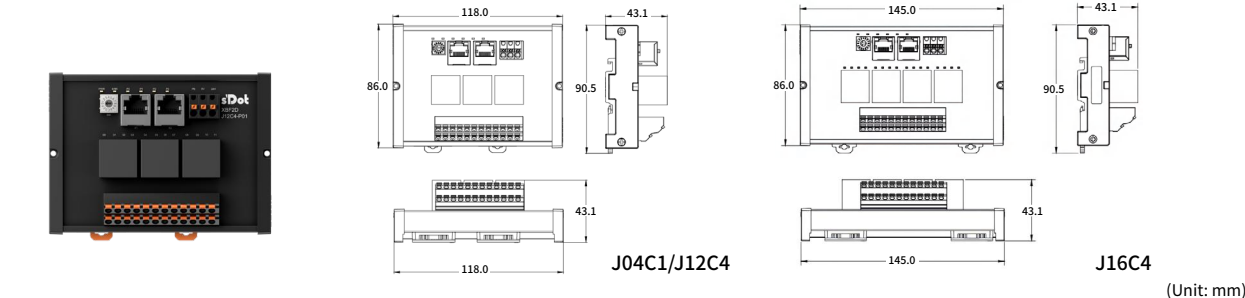


Dimensions(Including dust cover)



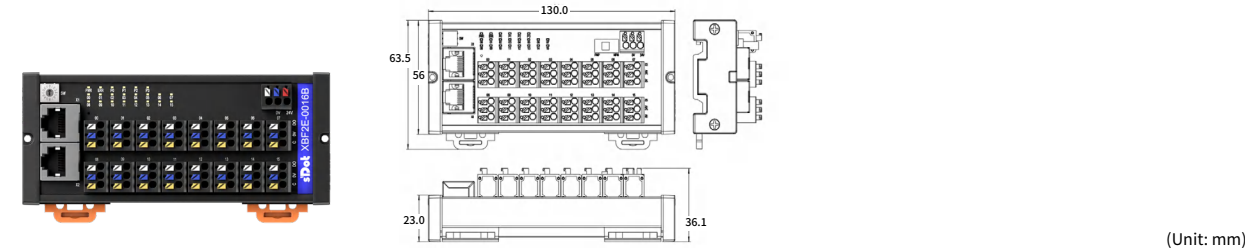
	Model	Description (Dust cover optional)
1	XBF2C-1600-F	16DI, terminal block, NPN/PNP compatible, filter default 3ms
2	XBF2C-0016A-F	16DO, terminal block, NPN type
3	XBF2C-0016B-F	16DO, terminal block, PNP type
4	XBF2C-0808A-F	8DI, NPN/PNP compatible, filter default 3ms, 8DO, terminal block, NPN type
5	XBF2C-0808B-F	8DI, NPN/PNP compatible, filter default 3ms, 8DO, terminal block, PNP type
6	XBF2-FCZ	XBF2C Dust Cover

XBF2D Dimensions



	Model	Description
1	XBF2D-J04C1-R03	4DO, terminal block, relay
2	XBF2D-J12C4-P01	12DO, terminal block, relay
3	XBF2D-J16C4-P01	16DO, terminal block, relay

XBF2E Dimensions

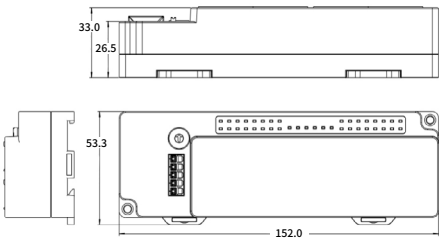


	Model	Description
1	XBF2E-1600	16 DI, terminal block, NPN/PNP-compatible; filter default 3ms
2	XBF2E-0016A	16DO, terminal block, NPN type
3	XBF2E-0016B	16DO, terminal block, PNP type
4	XBF2E-0808A	8DI, NPN/PNP compatible, filter default 3ms, 8DO, terminal block, NPN type
5	XBF2E-0808B	8DI, NPN/PNP compatible, filter default 3ms, 8DO, terminal block, PNP type

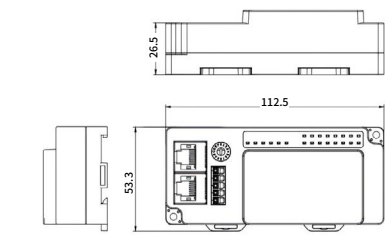
XBF5/XBF5A/XBF5B/XBF5C Dimensions (Without Dust Cover)



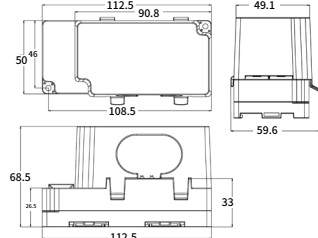
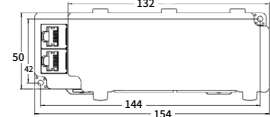
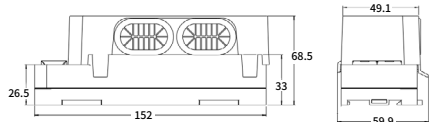
32 Channel



16 Channel



Dimensions(Including dust cover)



(Unit: mm)

	Model	XBF5 (Dust Cover Optional)
1	XBF5-3200	32DI, NPN/PNP compatible, input filter default 3ms (E-CON pluggable terminal, RJ45 communication port)
2	XBF5-0032A	32DO, NPN type (E-CON pluggable terminal, RJ45 communication port)
3	XBF5-0032B	32DO, PNP type (E-CON pluggable terminal, RJ45 communication port)
4	XBF5-1616A	16DI, NPN/PNP compatible, filter default 3ms,16DO, NPN type (E-CON pluggable terminal, RJ45 communication port)
5	XBF5-1616B	16DI, NPN/PNP compatible, filter default 3ms, 16DO, PNP type (E-CON pluggable terminal, RJ45 communication port)

	Model	XBF5A (Dust Cover Optional)
1	XBF5A-3200	32DI, NPN/PNP compatible, filter default 3ms (push-in terminal, RJ45 communication port)
2	XBF5A-0032A	32DO, NPN type (push-in terminal, RJ45 communication port)
3	XBF5A-0032B	32DO, PNP type (push-in terminal, RJ45 communication port)
4	XBF5A-1616A	16DI, NPN/PNP compatible, filter default 3ms, 16DO, NPN type (push-in terminal, RJ45 communication port)
5	XBF5A-1616B	16DI, NPN/PNP compatible, filter default 3ms, 16DO, PNP type (push-in terminal, RJ45 communication port)
6	XBF5A-1600	16DI, NPN/PNP compatible, filter default 3ms (push-in terminal, RJ45 communication port)
7	XBF5A-0016A	16DO, NPN type (push-in terminal, RJ45 communication port)
8	XBF5A-0016B	16DO, PNP type (push-in terminal, RJ45 communication port)
9	XBF5A-0808A	8DI, NPN/PNP compatible, filter default 3ms, 8DO, NPN type (push-in terminal, RJ45 communication port)
10	XBF5A-0808B	8DI, NPN/PNP compatible, filter default 3ms, 8DO, PNP type (push-in terminal, RJ45 communication port)

	Model	XBF5B (Dust Cover Optional)
1	XBF5B-3200	32DI, NPN/PNP compatible, filter default 3ms (E-CON pluggable terminal, M8 communication port)
2	XBF5B-0032A	32DO, NPN type (E-CON pluggable terminal, M8 communication port)
3	XBF5B-0032B	32DO, PNP type (E-CON pluggable terminal, M8 communication port)
4	XBF5B-1616A	16DI, NPN/PNP compatible, filter default 3ms,16DO, NPN type (E-CON pluggable terminal, M8 communication port)
5	XBF5B-1616B	16DI, NPN/PNP compatible, filter default 3ms, 16DO, PNP type (E-CON pluggable terminal, M8 communication port)

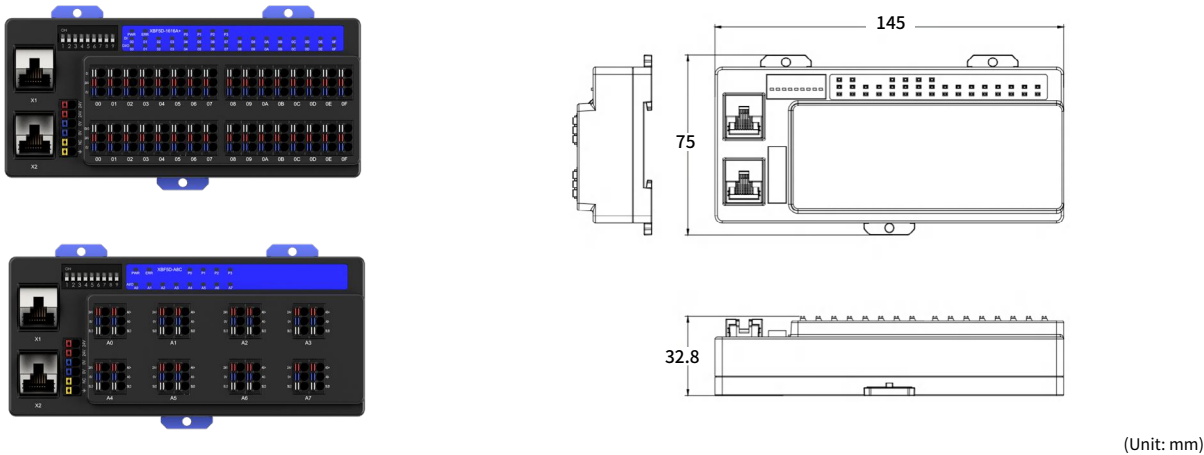
	Model	XBF5C (Dust Cover Optional)
1	XBF5C-3200	32DI, NPN/PNP compatible, filter default 3ms (push-in terminal, M8 communication port)
2	XBF5C-0032A	32DO, NPN type (push-in terminal, M8 communication port)
3	XBF5C-0032B	32DO, PNP type (push-in terminal, M8 communication port)
4	XBF5C-1616A	16DI, NPN/PNP compatible, filter default 3ms, 16DO, NPN type (push-in terminal, M8 communication port)
5	XBF5C-1616B	16DI, NPN/PNP compatible, filter default 3ms,16DO, PNP type (push-in terminal, M8 communication port)

	Model	Description
1	XBF5-FCZ-1	Dust cover for XBF5 32-channel module
2	XBF5-FCZ-2	Dust cover for XBF5 16-channel module

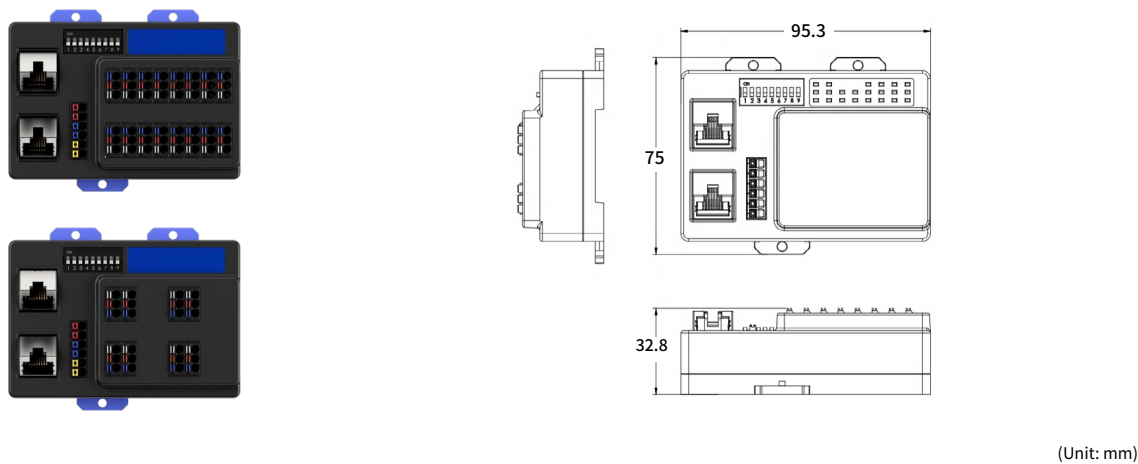
	Model	Description	Top Cover Color	Wire Outside Diameter	Conductor Size
1	XBF5-AWG24-VT	E-CON, purple cover, AWG24-26 wire	Purple	Φ 0.6-0.8	AWG24-26 0.13-0.21mm ²
2	XBF5-AWG24-RD	E-CON, red cover, AWG24-26 wire	Red	Φ 0.8-1.0	
3	XBF5-AWG24-GN	E-CON, green cover, AWG24-26 wire	Green	Φ 1.0-1.2	
4	XBF5-AWG24-OE	E-CON, orange cover, AWG24-26 wire	Orange	Φ 1.2-1.6	
5	XBF5-AWG20-YE	E-CON, yellow cover, AWG20-22 wire	Yellow	Φ 1.2-1.6	AWG20-22 0.3-0.5mm ²
6	XBF5-AWG20-BU	E-CON, blue cover, AWG20-22 wire	Blue	Φ 1.2-1.6	
7	XBF5-AWG20-GY	E-CON, gray cover, AWG20-22 wire	Gray	Φ 1.6-2.0	

Cable Type	Model	Description	Application	Cable Outer Diameter	Conductor Size
XBF5B/ XBF5C Communication Cable	KZG/R-*.0CS-XBF	M8 Straight to RJ45, A-coded, 4-pin, *.0 m, Green, Shielded, PVC	Fixed Installation	6.0±0.3 mm	4×0.25mm ² (24AWG)
	KZG/KZG-*.0CS-XBF	M8 Straight to M8 Straight, A-coded, 4-pin, *.0 m, Green, Shielded, PVC			
	KZG/R-*.0RST-XBF	M8 Straight to RJ45, A-coded, 4-pin, *.0 m, Green, Shielded, PUR, 5 Million Flex Cycles	Drag Chain Installation	6.5±0.2 mm	4×0.25mm ² (24AWG)
	KZG/KZG-*.0RST-XBF	M8 Straight to M8 Straight, A-coded, 4-pin, *.0 m, Green, Shielded, PUR, 5 Million Flex Cycles			

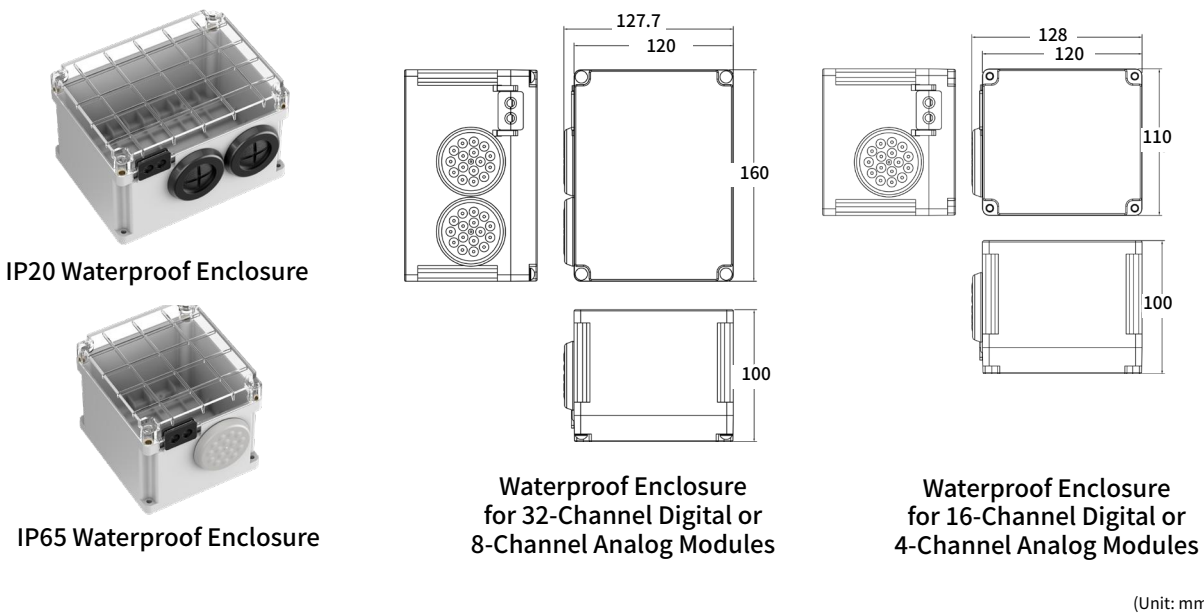
XBF5D/XBF5E 32DI or 8-Channel Analog Dimensions



XBF5D/XBF5E 16DI or 4-Channel Analog Dimensions



XBF5D/XBF5E Waterproof Enclosure Dimensions



* P20/IP65 waterproof enclosure compatible. Protection rating can be changed by replacing the cable gland.

	Model	Description(With Waterproof Enclosure)
1	XBF5D-3200	32DI, NPN/PNP compatible, filter default 3 ms, IP20
2	XBF5D-1600	16DI, NPN/PNP compatible, filter default 3 ms, IP20
3	XBF5D-1616A	16DI, NPN/PNP compatible, filter default 3 ms, 16DO, NPN type, IP20
4	XBF5D-1616B	16DI, NPN/PNP compatible, filter default 3 ms, 16DO, PNP type, IP20
5	XBF5D-1616A+	16DI, NPN type, 16 configurable DI/DO, filter default 3 ms, IP20
6	XBF5D-1616B+	16DI, PNP type, 16 configurable DI/DO, filter default 3 ms, IP20
7	XBF5D-0808A	8DI, NPN/PNP compatible, filter default 3 ms, 8DO, NPN type, IP20
8	XBF5D-0808B	8DI, NPN/PNP compatible, filter default 3 ms, 8DO, PNP type, IP20
9	XBF5D-0808A+	8DI, NPN type, 8 configurable DI/DO, filter default 3 ms, with waterproof enclosure, IP20
10	XBF5D-0808B+	8DI, PNP type, 8 configurable DI/DO, filter default 3 ms, with waterproof enclosure, IP20
11	XBF5D-0032A	32DO, NPN type, IP20
12	XBF5D-0032B	32DO, PNP type, IP20
13	XBF5D-0016A	16DO, NPN type, IP20
14	XBF5D-0016B	16DO, PNP type, IP20
15	XBF5D-A8C	8-channel analog current/voltage input and output compatible I/O, IP20
16	XBF5D-A4C	4-channel analog current/voltage input and output compatible I/O, IP20
17	XBF5E-3200	32DI, NPN/PNP compatible, filter default 3 ms, IP65
18	XBF5E-1600	16DI, NPN/PNP compatible, filter default 3 ms, IP65
19	XBF5E-1616A	16DI, NPN/PNP compatible, filter default 3 ms, 16DO, NPN type, IP65
20	XBF5E-1616B	16DI, NPN/PNP compatible, filter default 3 ms, 16DO, PNP type, IP65
21	XBF5E-1616A+	16DI, NPN type, 16 configurable DI/DO, filter default 3 ms, IP65
22	XBF5E-1616B+	16DI, PNP type, 16 configurable DI/DO, filter default 3 ms, IP65
23	XBF5E-0808A	8DI, NPN/PNP compatible, filter default 3 ms, 8DO, NPN type, IP65
24	XBF5E-0808B	8DI, NPN/PNP compatible, filter default 3 ms, 8DO, PNP type, IP65
25	XBF5E-0808A+	8DI, NPN type, 8 configurable DI/DO, filter default 3 ms, IP65
26	XBF5E-0808B+	8DI, PNP type, 8 configurable DI/DO, filter default 3 ms, IP65
27	XBF5E-0032A	32DO, NPN type, IP65
28	XBF5E-0032B	32DO, PNP type, IP65
29	XBF5E-0016A	16DO, NPN type, IP65
30	XBF5E-0016B	16DO, PNP type, IP65
31	XBF5E-A8C	8-channel analog current/voltage input and output compatible I/O, IP65
32	XBF5E-A4C	4-channel analog current/voltage input and output compatible I/O, IP65

Discrete I/O Switch



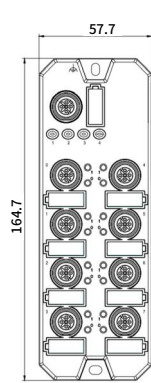
XBF7-SW08



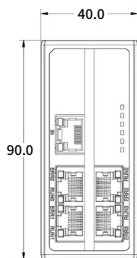
XBF4-SW04

- 1 4/8 OUT ports for flexible network topology configurations.
- 2 Extends the maximum transmission distance of discrete I/O modules up to 100 m
- 3 Supports sensor daisy-chaining via a dedicated switch port.
- 4 Available in IP20 and IP67 versions, with LED status indication, channel protection, and diagnostics.

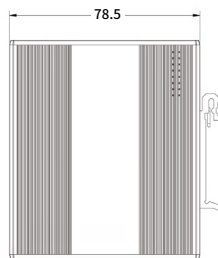
Discrete I/O Switch Dimensions



XBF7-SW08



XBF4-SW04



(Unit: mm)

	Model	Description
1	XBF7-SW08	8-channel discrete switch, IP67, 1 IN and 8 OUT
2	XBF4-SW04	4-channel discrete switch, IP20, 1 IN and 4 OUT

Stepper Driver



- 1 Supports communication protocols such as PROFINET and EtherCAT when used with a coupler.
- 2 Compatible with both NPN and PNP wiring to meet diverse industrial application requirements.
- 3 Maximum output current of 6 A, suitable for open-loop stepper motors up to frame size 60. Modular configuration supported when used with a coupler.

Model	Description
iD286-XBF	Requires use with Solidot coupler products, NPN/PNP compatible wiring, maximum current 6 A, suitable for open-loop stepper with mounting dimensions up to 60 mm



- 1 Pulse control, 8-bit expansion DIP switch
- 2 Maximum current 6 A, suitable for open-/closed-loop stepper motors with mounting dimensions up to 60 mm
- 3 High-performance control algorithm for diverse application requirements

Model	Description
S2L-T60B	Pulse control, 8-position DIP switch, maximum current 6 A, suitable for open-/closed-loop stepper motors with mounting dimensions up to 60 mm



- 1 Modbus RTU control
- 2 24–50 VDC supply voltage, maximum current 6 A, suitable for open-/closed-loop stepper motors with mounting dimensions up to 60 mm
- 3 Built-in isolation provides excellent noise immunity for demanding electromagnetic environments

Model	Description
S2M-T60B	Modbus RTU control, 24–50 VDC supply voltage, maximum current 6 A, suitable for open-/closed-loop stepper motors with mounting dimensions up to 60 mm

Model	XBF-iD286	S2L-T60B	S2M-T60B
Control Method	PROFINET/EtherCAT	Pulse	Modbus RTU
Protocol	Discrete I/O	None	RS-485
Supply Voltage	24–72 VDC	18–50 VDC	24–50 VDC
AC Input	Not Supported	Not Supported	Not Supported
Maximum Current	6000 mA	6000 mA	6000 mA
Compatible Motor	Open-loop, with mounting dimensions up to 60 mm	Closed-loop,with mounting dimensions up to 60 mm	Closed-loop,with mounting dimensions up to 60 mm
Dimensions	118*112*34	116 × 69 × 26.5 mm	118 × 76 × 33 mm
Protection Rating	IP20	IP20	IP20
Operating Temperature	-20°C ~+60°C	-10° C to +60° C	-10° C to +60° C
Debug Interface	-	TTL 3.3 V Serial Port	CAT6 Standard Ethernet Cable
DIP Switch	8-position	8-position	8-position
Pulse Input Voltage	-	Dedicated 5 V/24 V Interface	Dedicated 5 V/24 V Interface
Pulse Bandwidth Setting	Software	Software	Software
Direction Inversion	DIP Switch	DIP Switch	Software

Electro-Proportional Valve



Complete Model Number SITV 3 0 1 0 - 0 1 2 S -

Example 1 2 3 4 5 6 7 8 9 10 11

1 Series Selection

1	1000 Series
2	2000 Series
3	3000 Series

2 Pressure Range Selection

1	0.1MPa
3	0.5MPa
5	0.9MPa

3 Supply Voltage Selection

0	DC24V
1	DC12-15V

4 Input Signal Selection

0	Current Type DC4-20mA(Sink)
1	Current Type DC0-20mA(Sink)
2	Voltage Type DC0-5V
3	Voltage Type DC0-10V
40	4-Point Preset Input
52	16-Point Preset Input (Switch Output,NPN)
53	16-Point Preset Input (Switch Output,PNP)
XBF	Modbus/Discrete Communication Type

5 Monitor Output Selection

1	Analog Output DC1-5V
2	Switch Output(NPN)
3	Switch Output(PNP)
4	Analog Output DC4-20mA(Sink)

Monitor Output selection is not applicable when Input Signal is selected as Preset Input Type(Codes 40,52,53)or Communication Type(Code XBF).

6 Connection Thread Type Selection

(Blank)	Rc
N	NPT
T	NPTF
F	G

7 Connection Port Size Selection

1	1/8(1000Series only)
2	1/4 (All Series)
3	3/8(2000&3000 Series)
4	1/2 (3000 Series only)

8 Accessory(Bracket)Selection

(Blank)	No Bracket
B	Flat Plate Bracket
C	L-Shaped Bracket

9 Cable Connector Type Selection

S	Straight Connector,3m Cable
L	Right-Angle Connector,3m Cable
N	No Connector/Cable(Lead Wires Only)

10 Pressure Display Unit Selection

(Blank)	Mpa
2	kgf/cm²
3	bar
4	psi
5	kPa

11 Current Type Selection

(Blank)	Sink
XSource	Source

Technical Parameters

Model	Series 1: 200 L/min (ANR)	SITV101□ ^{Note 1)}	SITV103□ ^{Note 1)}	SITV105□ ^{Note 1)}
	Series 2: 1500 L/min (ANR)	SITV201□	SITV203□	SITV205□
	Series 3: 4000 L/min (ANR)	SITV301□	SITV303□	SITV305□
Minimum Supply Pressure		Set Pressure + 0.1 MPa		
Maximum Supply Pressure		0.2 MPa	1.0 MPa	
Set Pressure Range ^{Note 1)}		0.005 ~ 0.1 MPa	0.005 ~ 0.5 MPa	0.005 ~ 0.9 MPa
Power Supply	Voltage	DC24V ±10%, DC12~15V		
	Current Consumption	DC24V Supply: 0.12A max. DC12~15V Supply: 0.18A max.		
Supported Protocols		EtherCAT / PROFINET / 485 / Analog quantity		
Input Signal	Current Type ^{Note 2)}	DC4~20mA, DC0~20mA (Sink)		
	Voltage Type	DC0~5V, DC0~10V		
	Preset Input	4 points (-COM), 16 points (COM non-polarized)		
Input Impedance	Current Type	250Ω max. ^{Note 3)}		
	Voltage Type	Approx. 6.5 kΩ		
	Preset Input	DC24V Model: Approx. 4.7 kΩ, DC12V Model: Approx. 2.0 kΩ		
Output Signal ^{Note 3)} (Monitor Output)	Analog Output	DC1~5V (Load Impedance: 1 kΩ min.) DC4~20mA (Sink) (Load Impedance: 250 Ω max.) Output Accuracy: Within ±6% (F.S.)		
	Switch Output	NPN Open Collector: Max. 30V, 80mA PNP Open Collector: Max. 80mA		
Linearity		Within ±1% F.S.		
Hysteresis		Within 0.5% F.S.		
Repeatability		Within ±0.5% F.S.		
Sensitivity		Within 0.2% F.S.		
Temperature Characteristic		Within ±0.12% F.S./°C		
Surge		DC Power Input, (Cable Length >3m) Between Power Line and Ground: ±200V Between Power Lines: ±200V		
Output Pressure Display ^{Note 4)}	Accuracy	Within ±2% F.S. ±1 digit		
	Minimum Unit	MPa: 0.001; kgf/cm²: 0.01; bar: 0.01; psi: 0.1 ^{Note 5)} ; kPa: 1		
Ambient & Fluid Temperature		0~50°C (Non-Condensing)		
Protection Class		IP65		
Weight	SITV10□□	Approx. 250 g		
	SITV20□□	Approx. 350 g		
	SITV30□□	Approx. 645 g		

Note 1) 2-wire DC4~20mA cannot be used. Required supply voltage is (DC24V or DC12~15V).

Note 2) Either Analog Output or Switch Output can be selected.

Note 3) Furthermore, regarding switch output selection, either NPN output or PNP output can be selected. When the load impedance is less than 100 kΩ and measuring the DC1-5V analog output of the SITV, the analog monitor output accuracy may reach ±6% (F.S.). If accuracy must be within ±6%, please inquire separately. This does not affect the output pressure.

Note 4) Zero/Span adjustment and preset value adjustment, etc., are set from the minimum unit of the output pressure display. (Example: 0.01-0.50 MPa). Also, the unit cannot be switched.

Note 5) For the 0.9 MPa (130 psi) model, the minimum unit is 1 psi.

Note 6) Value excluding current loop status. Considering the time constant of the current loop, input impedance varies depending on input current. For an input current of DC20mA, it is 350 Ω max.

Note 7) The above characteristics are for static conditions only. Pressure will fluctuate when air is consumed on the output side.

Note 8) SITV1000 series is non-lubricated specification (fluid contact parts).

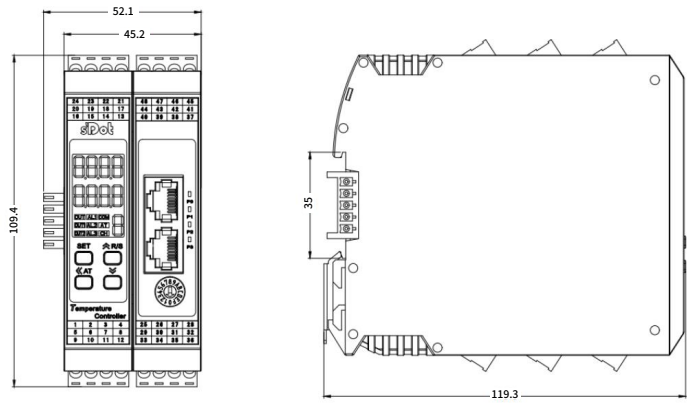
Please install an air filter near the supply port of this product. Select a filtration rating of 5 μm or less.

Discrete Temperature Controller



- 1 Supports distributed multi-node deployment, reducing installation and maintenance costs
- 2 Supports dual PID control for heating and cooling, with auto-tuning function
- 3 Supports fuzzy PID algorithm for dynamic PID parameter adjustment and optimized control performance
- 4 Total power limiting function with automatic load power balancing
- 5 Controller disconnection alarm, supporting multiple alarm modes and expansion functions
- 6 Excellent noise immunity

Discrete Temperature Controller Dimensions



(Unit: mm)

	Model	Description
1	XBF-A80TC-8Q-8Q	8 thermocouple inputs, 16DO
2	XBF-A80TC-8Q-2Q	8 thermocouple inputs, 10DO
3	XBF-A80TC-2Q	8 thermocouple inputs, 2DO
4	XBF-A80TC-Lite	8 thermocouple inputs, no control output
5	XBF-A80TC-8AO	8 thermocouple inputs, 8-channel analog control output

Industrial Ethernet Switch

- 1 Supports full-duplex or half-duplex mode with auto-negotiation capability
- 2 Compatible with protocols such as Modbus TCP, EtherNet/IP, and PROFINET, enabling transparent data transmission
- 3 Built-in store-and-forward mechanism, with a mean time between failures (MTBF) of over 300,000 hours



HUP05C/GUP05C



HUP08C/GUP08C



HUP05D/GUP05D



HUP08D/GUP08D



GUP08D-PN/GUP05D-PN



HUP16D/GUP16D



光口交换机

Unmanaged		
1	SW4-HUP05C	Unmanaged 5-port 100Mbps industrial Ethernet switch
2	SW4-HUP08C	Unmanaged 8-port 100Mbps industrial Ethernet switch
3	SW4-GUP05C	Unmanaged 5-port Gigabit industrial Ethernet switch
4	SW4-GUP08C	Unmanaged 8-port Gigabit industrial Ethernet switch
5	SW4-HUP05C-POE	Unmanaged 5-port 100Mbps industrial Ethernet switch with POE
6	SW4-HUP08C-POE	Unmanaged 8-port 100Mbps industrial Ethernet switch with POE
7	SW4-GUP05C-POE	Unmanaged 5-port Gigabit industrial Ethernet switch with POE
8	SW4-GUP08C-POE	Unmanaged 8-port Gigabit industrial Ethernet switch with POE
9	SW4-HUP05D	Unmanaged 5-port 100Mbps industrial Ethernet switch, supports BSP
10	SW4-HUP08D	Unmanaged 8-port 100Mbps industrial Ethernet switch, supports BSP
11	SW4-GUP05D	Unmanaged 5-port Gigabit industrial Ethernet switch, supports BSP
12	SW4-GUP08D	Unmanaged 8-port Gigabit industrial Ethernet switch, supports BSP
13	SW4-GUP08D-PN	PROFINET dedicated unmanaged 8-port Gigabit industrial Ethernet switch, supports BSP
14	SW4-HUP16D	Unmanaged 16-port 100Mbps industrial Ethernet switch, supports BSP
15	SW4-GUP16D	Unmanaged 16-port Gigabit industrial Ethernet switch, supports BSP

16	SW4-GUP05D-PN	PROFINET unmanaged Gigabit 5-port industrial Ethernet switch, supports BSP
17	SW4-GUP04D-SFP2	Unmanaged Gigabit 6-port industrial Ethernet switch, 4 RJ45 ports and 2 SFP ports
18	SW4-GUP08D-SFP2	Unmanaged Gigabit 10-port industrial Ethernet switch, 8 RJ45 ports and 2 SFP ports

Managed		
19	SW4-GMP04D-SFP2	Layer 2 Lite managed Gigabit 6-port industrial Ethernet switch, 4 RJ45 ports and 2 SFP ports, supports STP/RSTP/ERPS ring network
20	SW4-GMP08D-SFP2	Layer 2 Lite managed Gigabit 10-port industrial Ethernet switch, 8 RJ45 ports and 2 SFP ports, supports STP/RSTP/ERPS ring network
21	SW4-GMSP8D-SFP2	Layer 2 fully managed Gigabit 10-port industrial Ethernet switch, 8 RJ45 ports and 2 SFP ports, supports STP/RSTP/ERPS, IGMP Snooping/GMRP multicast, and SNMP v1/v2/v3

EtherCAT Junction

- 1 4 or 6*RJ45 ports, supports switch daisy-chaining
- 2 Based on high-performance EtherCAT ASIC communication chip to offer faster speed
- 3 Easy configuration and support most mainstream EtherCAT master stations
- 4 Power supply system supports reverse connection protection and short circuit protection



SW4-ECP06



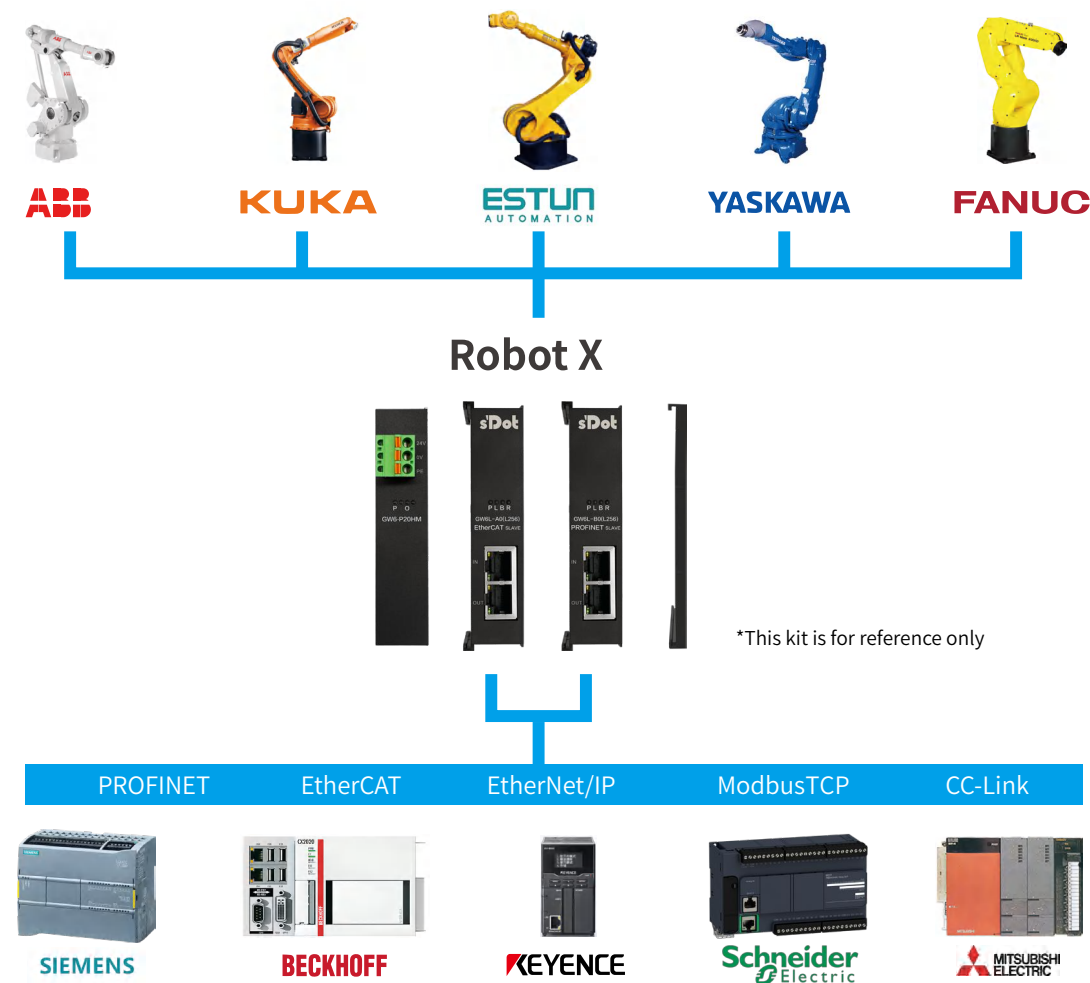
SW4-ECP04A



SW4-ECP04

	Model	Description
1	SW4-ECP04	4-port EtherCAT junction module (plastic housing)
2	SW4-ECP04A	4-port EtherCAT junction module (metal housing)
3	SW4-ECP06	6-port EtherCAT junction module (metal housing)

Slice Robot Gateway Robot X



	Model	Description
1	GW6L-A0A0(L256)	Slice Gateway EtherCAT slave to EtherCAT slave (fixed length 256 bytes)
2	GW6L-A0B0(L256)	Slice Gateway EtherCAT slave to PROFINET slave (fixed length 256 bytes)
3	GW6L-A0B0(L128)	Slice Gateway EtherCAT slave to PROFINET slave (fixed length 128 bytes)
4	GW6L-A0B0(L64)	Slice Gateway EtherCAT slave to PROFINET slave (fixed length 64 bytes)
5	GW6L-A0C0(L256)	Slice Gateway EtherCAT slave to EtherNet/IP slave (fixed length 256 bytes)
6	GW6L-A0D0(L256)	Slice Gateway EtherCAT slave to CC-Link slave (fixed length 256 bytes)
7	GW6L-A0G0(L256)	Slice Gateway EtherCAT Slave to Modbus TCP Slave Kit (fixed length 256 Bytes)
8	GW6L-A0G0(L128)	Slice Gateway EtherCAT Slave to Modbus TCP Slave Kit (fixed length 128 Bytes)
9	GW6L-A0G0(L64)	Slice Gateway EtherCAT Slave to Modbus TCP Slave Kit (fixed length 64 Bytes)
10	GW6L-B0B0(L256)	Slice Gateway PROFINET slave to PROFINET slave (fixed length 256 bytes)
11	GW6L-B0B0(L64)	Slice Gateway PROFINET slave to PROFINET slave (fixed length 64 bytes)

12	GW6L-B0C0(L256)	Slice Gateway PROFINET slave to EtherNet/IP slave (fixed length 256 bytes)
13	GW6L-B0D0(L256)	Slice Gateway PROFINET slave to CC-Link slave (fixed length 256 bytes)
14	GW6L-B0D0(L64)	Slice Gateway PROFINET slave to CC-Link slave (fixed length 64 bytes)
15	GW6L-B0G0(L256)	Slice IGateway PROFINET Slave to Modbus TCP Slave Kit (fixed length 256 Bytes)
16	GW6L-B0G0(L128)	Slice IGateway PROFINET Slave to Modbus TCP Slave Kit (fixed length 128 Bytes)
17	GW6L-C0C0(L256)	Slice Gateway EtherNet/IP slave to EtherNet/IP slave (fixed length 256 bytes)
18	GW6L-C0D0(L256)	Slice Gateway EtherNet/IP slave to CC-Link slave (fixed length 256 bytes)
19	GW6L-C0G0(L256)	Slice Gateway EtherNet/IP Slave to Modbus TCP Slave Kit (fixed length 256 Bytes)
20	GW6L-D0D0(L256)	Slice Gateway CC-Link slave to CC-Link slave (fixed length 256 bytes)
21	GW6L-D0G0(L256)	Slice Gateway CC-Link slave to Modbus TCP slave (fixed length 256 bytes)
22	GW6-P20HM	Slice Gateway power module
23	GW6-CVR	Slice Gateway end cover

Note: The gateway kit includes 1 power module, 2 gateway modules, and 1 end cover.

Integrated Protocol Conversion Gateway

- 1 Supports all mainstream industrial Ethernet protocols
- 2 Supports master-slave bus protocol conversion
- 3 Fast protocol conversion with excellent real-time performance
- 4 Supports device description files and slave device identification



	Model	Description
1	GW4U-COM-PNS	Integrated general gateway: CANopen master to PROFINET slave
2	GW4U-MRM-EIS	Integrated general gateway: Modbus RTU master to EtherNet/IP slave
3	GW4U-COM-EIS	Integrated general gateway: CANopen master to EtherNet/IP slave
4	GW4U-MRM-ECS	Integrated general gateway: Modbus RTU master to EtherCAT slave
5	GW4U-COM-ECS	Integrated general gateway: CANopen master to EtherCAT slave
6	GW4U-ECM-PNS	Integrated general gateway: EtherCAT master to PROFINET slave
7	GW4U-ECM-EIS	Integrated general gateway: EtherCAT master to EtherNet/IP slave
8	GW4U-ECM-CBS	Integrated general gateway: EtherCAT master to CC-Link IE Field Basic slave
9	GW4U-PNM-EIS	Integrated general gateway: PROFINET master to EtherNet/IP slave
10	GW4U-PNM-ECS	Integrated general gateway: PROFINET master to EtherCAT slave
11	GW4U-PNM-CBS	Integrated general gateway: PROFINET master to CC-Link IE Field Basic slave

> Motion Control Module

>> Pulse Output Module

- 1 Supports two modes: single pulse (pulse + direction) and dual pulse (CW/CCW)
- 2 Each channel is equipped with local positive limit, negative limit, origin, and brake signal inputs
- 3 Supports trapezoidal acceleration/deceleration, homing, and brake functions
- 4 Supports safety mode, which allows you to configure the module's pulse output action in case of network anomalies

Model	Description
XB6S-PT04A	4-channel PTO pulse output module

- 1 Based on EtherCAT protocol, supports CiA402 axis
- 2 Supports distributed clocks
- 3 4 channel 5V differential high-speed pulse output, up to 400kHz
- 4 Supports local positive limit, negative limit, origin, and brake signal inputs

Model	Description
EC4S-P04D	CiA402 4-axis pulse output module



XB6S-PT04A



EC4S-P04D



EC4-PX02B

>> High Speed Digital Output Module with Oversampling

- 1 Supports EtherCAT protocol
- 2 Supports oversampling high-speed output and PWM output modes
- 3 Each channel has a driving capability of up to 1A
- 4 Built-in channel-level synchronization function, one-click synchronization of oversampling output/PWM frequency and duty cycle

Model	Description
EC4-PX02B	High speed digital output module with oversampling

>> Pulse Counter Module



EC4-P20D



XB6S-PL20



XB6S-PL20D



XB6S-PS20D



XB6S-PC80

	Model	Description
1	EC4-P20D	2-channel incremental encoder counter module, 5V differential, 500kHz
2	XB6S-PL20	2-channel incremental encoder counter, 24V NPN/PNP type, 1MHz
3	XB6S-PL20D	2-channel incremental encoder counter, 5V differential, 1MHz
4	XB6S-PS20D	2-channel SSI absolute encoder counter, 5V differential, 2MHz
5	XB6S-PC80	8-channel pulse counter, 24V NPN/PNP type, 100kHz

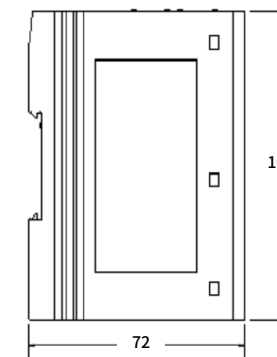
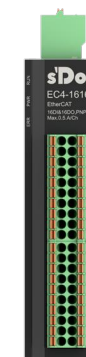
> Vertical I/O

Series 4 Vertical I/O



- 1 **Small size:**
Only 102×72×25mm
- 2 **Fast speed:**
High-speed ARM + dedicated ASIC
- 3 **High level of integration:**
Up to 32 digital channels
Up to 8 analog channels

Series 4 I/O Dimensions



(Unit: mm)

Easy to maintain:

Easy to troubleshoot issues, pluggable terminals

Convenient to expand:

Built-in dual Ethernet ports, modules can be cascaded

Comprehensive models:

Digital, analog, temperature, positioning, and counting modules are available

Easy to install:

Uses 35mm standard DIN rail

EtherCAT

PROFINET

EtherNet/IP

CC-Link

CC-Link IE Basic

Modbus TCP

DeviceNet

> VERTICAL I/O MODEL

>> EtherCAT

EtherCAT (Ethernet Control Automation Technology) is an open architecture, Ethernet-based fieldbus system with the abbreviation CAT for Control Automation Technology, which was first developed by Beckhoff in Germany

Products from Solidot are compatible with most EtherCAT master products currently available in the market:



BECKHOFF

KEYENCE

INOVANCE

SOFT SERVO

OMRON

TRIO

XINJE

ADLINK

CODESYS

Kithara

ADVANTECH

ADTECH

KUKA

ACS

DELTA

ESN

Single-wire Digital I/O		
1	EC4-3200A	EtherCAT, Integrated I/O, 32DI, NPN
2	EC4-2408A	EtherCAT, Integrated I/O, 24DI, 8DO, NPN, 0.5A
3	EC4-1616A	EtherCAT, Integrated I/O, 16DI, 16DO, NPN, 0.5A
4	EC4-0824A	EtherCAT, Integrated I/O, 8DI, 24DO, NPN, 0.5A
5	EC4-0032A	EtherCAT, Integrated I/O, 32DO, NPN, 0.5A
6	EC4-1600A	EtherCAT, Integrated I/O, 16DI, NPN
7	EC4-0808A	EtherCAT, Integrated I/O, 8DI, 8DO, NPN, 0.5A
8	EC4-0016A	EtherCAT, Integrated I/O, 16DO, NPN, 0.5A
9	EC4-3200B	EtherCAT, Integrated I/O, 32DI, PNP

10	EC4-2408B	EtherCAT, Integrated I/O, 24DI, 8DO, PNP, 0.5A
11	EC4-1616B	EtherCAT, Integrated I/O, 16DI, 16DO, PNP, 0.5A
12	EC4-0824B	EtherCAT, Integrated I/O, 8DI, 24DO, PNP, 0.5A
13	EC4-0032B	EtherCAT, Integrated I/O, 32DO, PNP, 0.5A
14	EC4-1600B	EtherCAT, Integrated I/O, 16DI, PNP
15	EC4-0808B	EtherCAT, Integrated I/O, 8DI, 8DO, PNP, 0.5A
16	EC4-0016B	EtherCAT, Integrated I/O, 16DO, PNP, 0.5A
17	EC4-1616P	EtherCAT, Integrated I/O, 16 DI, 16 DO, DO NPN/PNP compatible, 0.5A
18	EC4-0012J	EtherCAT, Integrated I/O, 12DO, Relay, 2A
19	EC4-1612J	EtherCAT, Integrated I/O, 16DI, 12DO, Relay, 2A

Analog Input		
20	EC4-A40V	EtherCAT, Integrated I/O, U, 4 channels analog voltage input, -10...+10V / 0...+10V, ±0.1% accuracy
21	EC4-A80V	EtherCAT, Integrated I/O, U, 8 channels analog voltage input, -10...+10V / 0...+10V, ±0.1% accuracy
22	EC4-A40I	EtherCAT, Integrated I/O, I, 4 channels analog current input, 0...20mA / 4...20mA, ±0.1% accuracy
23	EC4-A80I	EtherCAT, Integrated I/O, I, 8 channels analog current input, 0...20mA / 4...20mA, ±0.1% accuracy

Analog Output		
24	EC4-A04V	EtherCAT, Integrated I/O, U, 4 channels analog voltage output, -10...+10V / 0...+10V, ±0.1% accuracy
25	EC4-A08V	EtherCAT, Integrated I/O, U, 8 channels analog voltage output, -10...+10V / 0...+10V, ±0.1% accuracy
26	EC4-A04I	EtherCAT, Integrated I/O, I, 4 channels analog current output, 0...20mA/4...20mA, ±0.1% accuracy
27	EC4-A08I	EtherCAT, Integrated I/O, I, 8 channels analog current output, 0...20mA/4...20mA, ±0.1% accuracy

Function Module		
28	EC4-P20D	2-channel incremental encoder counter module, 5V-differential, 500kHz
29	EC4-PX02B	High speed digital output module with oversampling
30	EC4S-P04D	CiA402 4-axis pulse output module, 5V-differential, 400kHz

31	XX4-C10_4	Integrated common terminal expansion module, supporting 2-wire and 3-wire
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>> PROFINET

PROFINET was introduced by PROFIBUS International (PI) and is a new generation of automation bus standard based on industrial Ethernet technology. It provides a complete network solution for the automation communication field. Products from Solidot are compatible with Siemens S7-1500, S7-1200, S7-200 SMART and CNC systems, and are widely used in many industries.



Single-wire Digital I/O		
1	PN4-3200A	PROFINET, Integrated I/O, 32DI, NPN
2	PN4-2408A	PROFINET, Integrated I/O, 24DI, 8DO, NPN, 0.5A
3	PN4-1616A	PROFINET, Integrated I/O, 16DI, 16DO, NPN, 0.5A
4	PN4-0824A	PROFINET, Integrated I/O, 8DI, 24DO, NPN, 0.5A
5	PN4-0032A	PROFINET, Integrated I/O, 32DO, NPN, 0.5A
6	PN4-1600A	PROFINET, Integrated I/O, 16DI, NPN
7	PN4-0808A	PROFINET, Integrated I/O, 8DI, 8DO, NPN, 0.5A
8	PN4-0016A	PROFINET, Integrated I/O, 16DO, NPN, 0.5A
9	PN4-3200B	PROFINET, Integrated I/O, 32DI, PNP
10	PN4-2408B	PROFINET, Integrated I/O, 24DI, 8DO, PNP, 0.5A
11	PN4-1616B	PROFINET, Integrated I/O, 16DI, 16DO, PNP, 0.5A
12	PN4-0824B	PROFINET, Integrated I/O, 8DI, 24DO, PNP, 0.5A
13	PN4-0032B	PROFINET, Integrated I/O, 32DO, PNP, 0.5A
14	PN4-1600B	PROFINET, Integrated I/O, 16DI, PNP
15	PN4-0808B	PROFINET, Integrated I/O, 8DI, 8DO, PNP, 0.5A
16	PN4-0016B	PROFINET, Integrated I/O, 16DO, PNP, 0.5A
17	PN4-0012J	PROFINET, Integrated I/O, 12DO, Relay, 2A
18	PN4-1612J	PROFINET, Integrated I/O, 16DI, 12DO, Relay, 2A
19	PN4-1616P	PROFINET, Integrated I/O, 16DI, 16DO, input compatible NPN/PNP, output PNP, 0.5A

Analog Input		
20	PN4-A40V	PROFINET, Integrated I/O, U, 4-channel analog voltage input, supports multiple ranges, maximum -10...+10V, $\pm 0.1\%$ accuracy
21	PN4-A80V	PROFINET, Integrated I/O, U, 8-channel analog voltage input, supports multiple ranges, maximum -10...+10V, $\pm 0.1\%$ accuracy
22	PN4-A40I	PROFINET, Integrated I/O, I, 4-channel analog current input, 0...20mA / 4...20mA, $\pm 0.1\%$ accuracy
23	PN4-A80I	PROFINET, Integrated I/O, I, 8-channel analog current input, 0...20mA / 4...20mA, $\pm 0.1\%$ accuracy

Analog Output		
24	PN4-A04V	PROFINET, Integrated I/O, U, 4-channel analog voltage output, supports multiple ranges, max -10...+10V, $\pm 0.1\%$ accuracy
25	PN4-A08V	PROFINET, Integrated I/O, U, 8-channel analog voltage output, supports multiple ranges, max -10...+10V, $\pm 0.1\%$ accuracy
26	PN4-A04I	PROFINET, Integrated I/O, I, 4-channel analog current output, 0...20mA / 4...20mA, $\pm 0.1\%$ accuracy
27	PN4-A08I	PROFINET, Integrated I/O, I, 8-channel analog current output, 0...20mA / 4...20mA, $\pm 0.1\%$ accuracy
28	XX4-C10_4	Integrated common terminal expansion module, supporting 2-wire and 3-wire

> Integrated Serial Interface Gateway

- 1 Converts Industrial Ethernet to 2 Serial Ports
- 2 Provides a three-in-one interface for RS232/RS485/RS422
- 3 MR: Support Modbus RTU Master&Slave
- 4 FP: Support Freeport, protocol package, pass-through



	Model	Description
1	PN4-GW2MR	PROFINET to Modbus RTU protocol
2	PN4-GW2FP	PROFINET to Free port protocol

>> EtherNet/IP

The abbreviation "IP" in the name stands for "Industrial Protocol", which is an industrial Ethernet communication protocol developed by Rockwell Automation and managed by ODVA (Open DeviceNet Vendors Association). It can be used in program control and other automation applications and is part of the Common Industrial Protocol (CIP). Solidot is one of the earliest companies in China to develop EIP protocol related products and our products mainly adapt the following master products:



Single-wire Digital I/O		
1	EI4-3200A	EtherNet/IP, Integrated I/O, 32DI, NPN
2	EI4-2408A	EtherNet/IP, Integrated I/O, 24DI, 8DO, NPN, 0.5A
3	EI4-1616A	EtherNet/IP, Integrated I/O, 16DI, 16DO, NPN, 0.5A
4	EI4-0824A	EtherNet/IP, Integrated I/O, 8DI, 24DO, NPN, 0.5A
5	EI4-0032A	EtherNet/IP, Integrated I/O, 32DO, NPN, 0.5A
6	EI4-1600A	EtherNet/IP, Integrated I/O, 16DI, NPN
7	EI4-0808A	EtherNet/IP, Integrated I/O, 8DI, 8DO, NPN, 0.5A
8	EI4-0016A	EtherNet/IP, Integrated I/O, 16DO, NPN, 0.5A
9	EI4-3200B	EtherNet/IP, Integrated I/O, 32DI, PNP
10	EI4-2408B	EtherNet/IP, Integrated I/O, 24DI, 8DO, PNP, 0.5A
11	EI4-1616B	EtherNet/IP, Integrated I/O, 16DI, 16DO, PNP, 0.5A
12	EI4-0824B	EtherNet/IP, Integrated I/O, 8DI, 24DO, PNP, 0.5A
13	EI4-0032B	EtherNet/IP, Integrated I/O, 32DO, PNP, 0.5A
14	EI4-1600B	EtherNet/IP, Integrated I/O, 16DI, PNP
15	EI4-0808B	EtherNet/IP, Integrated I/O, 8DI, 8DO, PNP, 0.5A
16	EI4-0016B	EtherNet/IP, Integrated I/O, 16DO, PNP, 0.5A
17	EI4-0012J	EtherNet/IP, integrated I/O, 12 DO, Relay, 2A
18	EI4-1612J	EtherNet/IP, integrated I/O, 16DI, 12 DO, Relay, 2A

Analog Input		
19	EI4-A40V	EtherNet/IP, Integrated I/O, U, 4 channels analog voltage input, support multiple ranges, maximum -10...+10V, $\pm 0.1\%$ accuracy
20	EI4-A80V	EtherNet/IP, Integrated I/O, U, 8 channels analog voltage input, support multiple ranges, maximum -10...+10V, $\pm 0.1\%$ accuracy
21	EI4-A40I	EtherNet/IP, Integrated I/O, I, 4 channels analog current input, 0...20mA / 4...20mA, $\pm 0.1\%$ accuracy
22	EI4-A80I	EtherNet/IP, Integrated I/O, I, 8 channels analog current input, 0...20mA / 4...20mA, $\pm 0.1\%$ accuracy

Analog Output		
23	EI4-A04V	EtherNet/IP, Integrated I/O, U, 4 channels analog voltage output, support multiple ranges, maximum -10~+10V, $\pm 0.1\%$ accuracy
24	EI4-A08V	EtherNet/IP, Integrated I/O, U, 8 channels analog voltage output, support multiple ranges, maximum -10...+10V, $\pm 0.1\%$ accuracy
25	EI4-A04I	EtherNet/IP, Integrated I/O, I, 4 channels analog current output, 0...20mA / 4...20mA, $\pm 0.1\%$ accuracy
26	EI4-A08I	EtherNet/IP, Integrated I/O, I, 8 channels analog current output, 0...20mA / 4...20mA, $\pm 0.1\%$ accuracy

27	XX4-C10_4	Integrated common terminal expansion module, supporting 2-wire and 3-wire
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>> CC-Link

CC-Link 是一种开放式现场总线，其数据容量大，通信速度多级可选择，而且它是一个复合的、开放的、适应性强的网络系统，能够适应于较高的管理层网络到较低的传感器层网络的不同范围。由三菱主导，目前常见的 CC-Link 主站有三菱 FX5U、L、Q、IQ-R 等系列 PLC。



Single-wire Digital I/O		
1	CC4-3200AL	CC-Link, Integrated I/O, 32DI, NPN, input delay ≤ 1.5ms
2	CC4-0032A	CC-Link, Integrated I/O, 32DO, NPN, 0.5A
3	CC4-1616AL	CC-Link, Integrated I/O, 16DI, 16DO, NPN, input delay ≤ 1.5ms, 0.5A
4	CC4-1600AL	CC-Link, Integrated I/O, 16DI, NPN, input delay ≤ 1.5ms
5	CC4-0016A	CC-Link, Integrated I/O, 16DO, NPN, 0.5A
6	CC4-0808AL	CC-Link, Integrated I/O, 8DI, 8DO, NPN, input delay ≤ 1.5ms, 0.5A
7	CC4-3200BL	CC-Link, Integrated I/O, 32DI, PNP, input delay ≤ 1.5ms
8	CC4-0032B	CC-Link, Integrated I/O, 32 DO, PNP, 0.5A
9	CC4-1616BL	CC-Link, Integrated I/O, 16DI, 16DO, PNP, input delay ≤ 1.5ms, 0.5A
10	CC4-1600BL	CCC-Link, Integrated I/O, 16DI, PNP, input delay ≤ 1.5ms
11	CC4-0016B	CC-Link, Integrated I/O, 16DO, PNP, 0.5A
12	CC4-0808BL	CC-Link, Integrated I/O, 8DI, 8DO, PNP, input delay ≤ 1.5ms, 0.5A
13	CC4-3200A	CC-Link, Integrated I/O, 32DI, NPN
14	CC4-1600A	CC-Link, Integrated I/O, 16DI, NPN
15	CC4-1616A	CC-Link, Integrated I/O, 16DI, 16DO, NPN, 0.5A
16	CC4-0808A	CC-Link, Integrated I/O, 8DI, 8DO, NPN, 0.5A
17	CC4-3200B	CC-Link, Integrated I/O, 32DI, PNP
18	CC4-1600B	CC-Link, Integrated I/O, 16DI, PNP
19	CC4-1616B	CC-Link, Integrated I/O, 16DI, 16DO, PNP, 0.5A
20	CC4-0808B	CC-Link, Integrated I/O, 8DI, 8DO, PNP, 0.5A

Analog Input		
21	CC4-A40V	CC-Link, Integrated I/O, U, 4 channels analog voltage input, -10...+10V/0...+5V/1...+5V, ±0.1% accuracy
22	CC4-A80V	CC-Link, Integrated I/O, U, 8 channels analog voltage input, -10...+10V/0...+5V/1...+5V, ±0.1% accuracy
23	CC4-A40I	CC-Link, Integrated I/O, I, 4 channels analog current input, 0...20mA/4...20mA, ±0.1% accuracy
24	CC4-A80I	CC-Link, Integrated I/O, I, 8 channels analog current input, 0...20mA/4...20mA, ±0.1% accuracy

Analog Output		
25	CC4-A04V	CC-Link, Integrated I/O, U, 4 channels analog voltage output, -10...+10V/0...+5V/1...+5V, ±0.1% accuracy
26	CC4-A08V	CC-Link, Integrated I/O, U, 8 channels analog voltage output, -10...+10V/0...+5V/1...+5V, ±0.1% accuracy
27	CC4-A04I	CC-Link, Integrated I/O, I, 4 channels analog current output, 0...20mA/4...20mA, ±0.1% accuracy
28	CC4-A08I	CC-Link, Integrated I/O, I, 8 channels analog current output, 0...20mA/4...20mA, ±0.1% accuracy
29	XX4-C10_4	Integrated common terminal expansion module, supporting 2-wire and 3-wire

>>

CC-Link IE Field Basic

CC-Link IE Field Basic is a new member of the CC-Link IE protocol and is a bus network based on the standard 100Mbps Ethernet, specifically designed to provide a low-cost control network for small-scale systems that do not require high-speed control.Solidot has been a long-term partner of CLPA and has developed CC-Link and CC-Link IE compatible products. CC-Link IE Field Basic products can be used with Mitsubishi FX5U, L, Q, IQ-RPLCs.



Single-wire Digital I/O		
1	CB4-3200A	CC-Link IE Field Basic, Integrated I/O, 32DI, NPN
2	CB4-2408A	CC-Link IE Field Basic, Integrated I/O, 24DI, 8DO, NPN, 0.5A
3	CB4-1616A	CC-Link IE Field Basic, Integrated I/O, 16DI, 16DO, NPN, 0.5A
4	CB4-0824A	CC-Link IE Field Basic, Integrated I/O, 8DI, 24DO, NPN, 0.5A
5	CB4-0032A	CC-Link IE Field Basic, Integrated I/O, 32DO, NPN, 0.5A
6	CB4-1600A	CC-Link IE Field Basic, Integrated I/O, 16DI, NPN
7	CB4-0808A	CC-Link IE Field Basic, Integrated I/O, 8DI, 8DO, NPN, 0.5A
8	CB4-0016A	CC-Link IE Field Basic, Integrated I/O, 16DO, NPN, 0.5A
9	CB4-3200B	CC-Link IE Field Basic, Integrated I/O, 32DI, PNP
10	CB4-1616B	CC-Link IE Field Basic, Integrated I/O, 16DI, 16DO, PNP, 0.5A
11	CB4-0032B	CC-Link IE Field Basic, Integrated II/O, 32 DO, PNP, 0.5A
12	CB4-1600B	CC-Link IE Field Basic, Integrated I/O, 16DI, PNP
13	CB4-0016B	CC-Link IE Field Basic, Integrated I/O, 16 DO, PNP, 0.5A
14	CB4-0808B	CC-Link IE Field Basic, Integrated I/O, 8 DI, 8DO, PNP, 0.5A
15	CB4-2408B	CC-Link IE Field Basic, Integrated /O, 24DI, 8DO, PNP, 0.5A
16	CB4-0824B	CC-Link IE Field Basic, Integrated I/O, 8DI, 24DO, PNP, 0.5A
17	CB4-1612J	CC-Link IE Field Basic, Integrated I/O, 16 DI(NPN/PNP), 12-channel relay output, 2A
18	CB4-0012J	CC-Link E Field Basic, Integrated I/O, 12-channel relay output, 2A

Analog Input		
19	CB4-A40V	CC-Link IE Field Basic, Integrated I/O, U, 4 channels analog voltage input, -10...+10V/0...+10V, $\pm 0.1\%$ accuracy
20	CB4-A80V	CC-Link IE Field Basic, Integrated I/O, U, 8 channels analog voltage input, -10...+10V/0...+10V, $\pm 0.1\%$ accuracy
21	CB4-A40I	CC-Link IE Field Basic, Integrated I/O, I, 4 channels analog current input, 0...20mA/4...20mA, $\pm 0.1\%$ accuracy
22	CB4-A80I	CC-Link IE Field Basic, Integrated I/O, I, 8 channels analog current input, 0...20mA/4...20mA, $\pm 0.1\%$ accuracy

Analog Output		
23	CB4-A04V	CC-Link IE Field Basic, Integrated I/O, U, 4 channels analog voltage output, -10...+10V/0...+10V, $\pm 0.1\%$ accuracy
24	CB4-A08V	CC-Link IE Field Basic, Integrated I/O, U, 8 channels analog voltage output, -10...+10V/0...+10V, $\pm 0.1\%$ accuracy
25	CB4-A04I	CC-Link IE Field Basic, Integrated I/O, I, 4 channels analog current output, 0...20mA/4...20mA, $\pm 0.1\%$ accuracy
26	CB4-A08I	CC-Link IE Field Basic, Integrated II/O, I, channels analog current output, 0...20mA/4....20mA, $\pm 0.1\%$ accuracy
27	XX4-C10_4	Integrated common terminal expansion module,supporting 2-wire and 3-wire

>> Modbus TCP

Modbus is a serial communication protocol published in 1979 by Modicon (now Schneider Electric) for communication with programmable logic controllers (PLCs). Modbus has become an industry standard for communication protocols in the industrial field and is now a common connection method between industrial electronic devices. Versions of the Modbus protocol currently exist for serial ports, Ethernet, and other networks supporting Internet protocols. Modbus TCP products from Solidot have built-in Ethernet switches, simplifying wiring, and are typically used with PLCs from manufacturers such as LabVIEW, Siemens, B&R, and Schneider Electric.



Single-wire Digital I/O		
1	MT4-3200A	Modbus TCP, Integrated I/O, 32DI, NPN
2	MT4-1616A	Modbus TCP, Integrated I/O, 16DI, 16DO, NPN, 0.5A
3	MT4-0032A	Modbus TCP, Integrated I/O, 32DO, NPN, 0.5A
4	MT4-1600A	Modbus TCP, Integrated I/O, 16DI, NPN
5	MT4-0808A	Modbus TCP, Integrated I/O, 8DI, 8DO, NPN, 0.5A
6	MT4-0016A	Modbus TCP, Integrated I/O, 16DO, NPN, 0.5A
7	MT4-1616B	Modbus TCP, Integrated I/O, 16DI, 16DO, PNP, 0.5A
8	MT4-3200B	Modbus TCP, Integrated I/O, 32DI, PNP
9	MT4-1600B	Modbus TCP, Integrated I/O, 16DI, PNP
10	MT4-0032B	Modbus TCP, Integrated I/O, 32 DO, PNP, 0.5A
11	MT4-0016B	Modbus TCP, Integrated I/O, 16 DO, PNP, 0.5A
12	MT4-0808B	Modbus TCP, Integrated I/O, 8DI, 8DO, PNP, 0.5A
13	MT4-2408A	Modbus TCP, Integrated I/O, 24 DI, 8DO, NPN, 0.5A
14	MT4-1612J	Modbus TCP, Integrated I/O, 16 DI, 12-channel relay output, input compatible NPN/PNP, 2A
15	MT4-1616P	Modbus TCP, Integrated I/O, 16DI, 16DO, output compatible NPN/PNP, output PNP type

Analog Input		
16	MT4-A40V	Modbus TCP, Integrated I/O, U, 4 channels analog voltage input, support multiple ranges, maximum -10...+10V, $\pm 0.1\%$ accuracy
17	MT4-A80V	Modbus TCP, Integrated I/O, U, 8 channels analog voltage input, support multiple ranges, maximum -10...+10V, $\pm 0.1\%$ accuracy
18	MT4-A40I	Modbus TCP, Integrated I/O, I, 4 channels analog current input, 0...20mA / 4...20mA, $\pm 0.1\%$ accuracy
19	MT4-A80I	Modbus TCP, Integrated I/O, I, 8 channels analog current input, 0...20mA / 4...20mA, $\pm 0.1\%$ accuracy

Analog Output		
20	MT4-A04V	Modbus TCP, Integrated I/O, U, 4 channels analog voltage output, support multiple ranges, maximum -10...+10V, $\pm 0.1\%$ accuracy
21	MT4-A08V	Modbus TCP, Integrated I/O, I, 8 channels analog voltage output, support multiple ranges, maximum -10...+10V, $\pm 0.1\%$ accuracy
22	MT4-A04I	Modbus TCP, Integrated I/O, I, 4 channels analog current output, 0...20mA/4...20mA, $\pm 0.1\%$
23	MT4-A08I	Modbus TCP, Integrated I/O, I, 8 channels analog current output, 0...20mA/4...20mA, $\pm 0.1\%$
24	XX4-C10_4	Integrated common terminal expansion module, supporting 2-wire and 3-wire

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DeviceNet

DeviceNet is a field bus standard for automation technology developed by Allen-Bradley in 1994. DeviceNet uses controller area network (CAN) as its underlying communication protocol, and has defined profiles for different devices at its application layer. Its main applications include information exchange, safety equipment, and large control systems. It has a high market share in the United States. Solidot's products include integrated I/O, which is used with Omron CJ series PLC and ABB robots.



Single-wire Digital I/O		
1	DN4-3200A	DeviceNet, Integrated I/O, 32DI, NPN
2	DN4-1616A	DeviceNet, Integrated I/O, 16DI, 16DO, NPN, 0.5A
3	DN4-0032A	DeviceNet, Integrated I/O, 32DO, NPN, 0.5A
4	DN4-1600A	DeviceNet, Integrated I/O, 16DI, NPN
5	DN4-0808A	DeviceNet, Integrated I/O, 8DI, 8DO, NPN, 0.5A
6	DN4-0016A	DeviceNet, Integrated I/O, 16DO, NPN, 0.5A
7	DN4-3200B	DeviceNet, Integrated I/O, 32DI, PNP
8	DN4-0032B	DeviceNet, Integrated I/O, 32DO, PNP, 0.5A
9	DN4-1616B	DeviceNet, Integrated I/O, 16DI, 16DO, PNP, 0.5A
10	DN4-0808B	DeviceNet, Integrated I/O, 8DI, 8DO, PNP, 0.5A
11	DN4-2408A	DeviceNet, Integrated I/O, 24 DI, 8DO, NPN, 0.5A
12	XX4-C10_4	Integrated common terminal expansion module, supporting 2-wire and 3-wire

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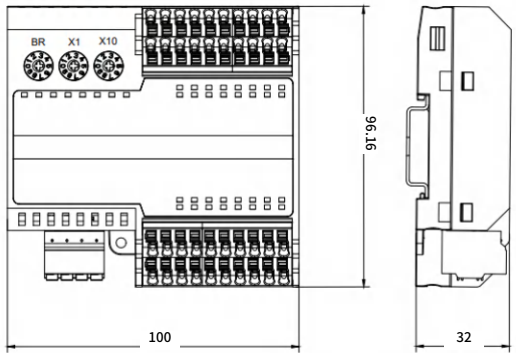
Series 3 HORIZONTAL I/O - CC3S

Series 3 HORIZONTAL I/O - CC3S



- 1 Digital input signals are compatible with NPN & PNP
- 2 The height is only 32mm
- 3 Can filter out glitch within 1.5ms, a variety of digital input delay models are available
- 4 The innovative channel indicator design is adopted as the indicators are placed close to the channels, channel status is displayed intuitively and clearly, facilitating detection and maintenance

Series 3 HORIZONTAL I/O CC3S Dimensions



(Unit: mm)

Single-wire Digital I/O		
1	CC3S-3200	CC-Link, Integrated I/O, 32DI, NPN & PNP compatible, push-in terminal
2	CC3S-1616A	CC-Link, Integrated I/O, 16DI, 16DO, NPN, 0.5A, push-in terminal
3	CC3S-1616B	CC-Link, Integrated I/O, 16DI, 16DO, PNP, 0.5A, push-in terminal
4	CC3S-0032A	CC-Link, Integrated I/O, 32DO, NPN, 0.5A, push-in terminal
5	CC3S-0032B	CC-Link, Integrated I/O, 32DO, PNP, 0.5A, push-in terminal

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Series 3 Horizontal I/O

Series 3 Horizontal I/O



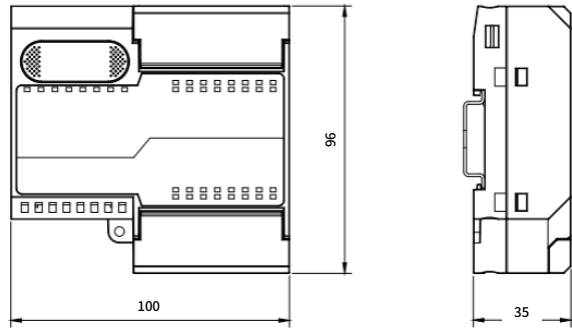
- 1

The height is only 35 mm (CC3S height is only 32 mm)
- 2

Digital input signals are compatible with NPN & PNP
- 3

Channel indicators are placed close to channels, making channel status clear at a glance

Series 3 Horizontal I/O Dimensions



(Unit: mm)

Easy to Use: Simple configuration and setup

Easy Expansion: Dual Ethernet ports for module daisy-chaining

Excellent Compatibility: Compatible with major mainstream controllers

Easy Installation: Standard 35 mm DIN rail mounting



Single-wire Digital I/O

1	EI3-3200	EtherNet/IP, Integrated I/O, 32DI, NPN&PNP compatible, Screw terminal
2	EI3-1616A	EtherNet/IP, Integrated I/O, 16DI, 16DO, NPN, 0.5A, Screw terminal
3	EI3-1616B	EtherNet/IP, Integrated I/O, 16DI, 16DO, PNP, 0.5A, Screw terminal
4	EI3-0032A	EtherNet/IP, Integrated I/O, 32DO, NPN, 0.5A, Screw terminal
5	EI3-0032B	EtherNet/IP, Integrated I/O, 32DO, PNP, 0.5A, Screw terminal

6	PN3-3200	PROFINET, Integrated I/O, 32DI, NPN&PNP compatible, Screw terminal
7	PN3-1616A	PROFINET, Integrated I/O, 16DI, 16DO, NPN, 0.5A, Screw terminal
8	PN3-1616B	PROFINET, Integrated I/O, 16DI, 16DO, PNP, 0.5A, Screw terminal
9	PN3-0032A	PROFINET, Integrated I/O, 32DO, NPN, 0.5A, Screw terminal
10	PN3-0032B	PROFINET, Integrated I/O, 32DO, PNP, 0.5A, Screw terminal

11	EC3A-3200	EtherCAT, Integrated I/O, 32DI, NPN&PNP compatible, Screw terminal
12	EC3A-1616A	EtherCAT, Integrated I/O, 16DI, 16DO, NPN, 0.5A, Screw terminal
13	EC3A-1616B	EtherCAT, Integrated I/O, 16DI, 16DO, PNP, 0.5A, Screw terminal
14	EC3A-0032A	EtherCAT, Integrated I/O, 32DO, NPN, 0.5A, Screw terminal
15	EC3A-0032B	EtherCAT, Integrated I/O, 32DO, PNP, 0.5A, Screw terminal

16	CC3-3200	CC-Link, Integrated I/O, 32DI, NPN&PNP compatible, Screw terminal
17	CC3-1616A	CC-Link, Integrated I/O, 16DI, 16DO, NPN, 0.5A, Screw terminal
18	CC3-1616B	CC-Link, Integrated I/O, 16DI, 16DO, PNP, 0.5A, Screw terminal
19	CC3-0032A	CC-Link, Integrated I/O, 32DO, NPN, 0.5A, Screw terminal
20	CC3-0032B	CC-Link, Integrated I/O, 32DO, PNP, 0.5A, Screw terminal

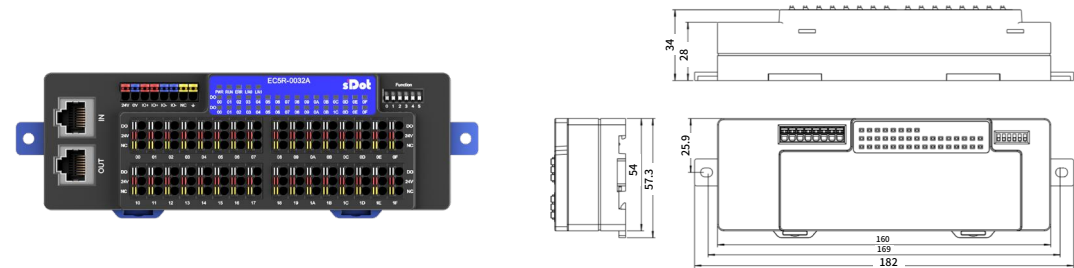
Series 5 Horizontal I/O

Series 5 Horizontal I/O



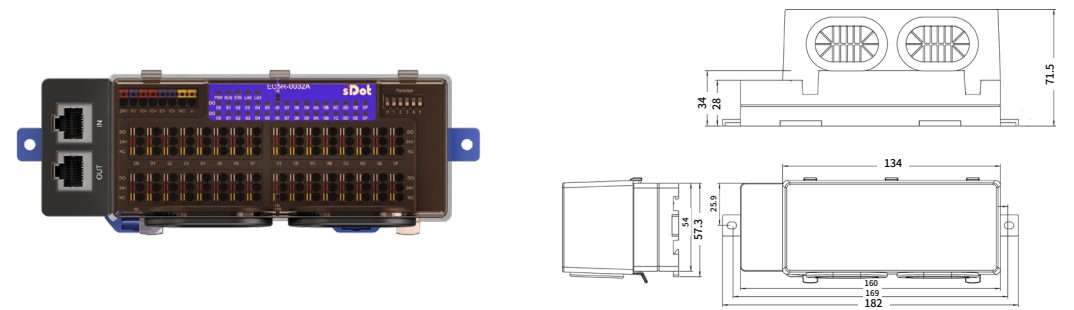
- 1 Three-wire power supply, eliminating terminal blocks and simplifying wiring
- 2 Supports alarm data area switching, optional enable/disable
- 3 A+ models support DI/DO auto-adaptation or DIP switch configuration

Series 5 Horizontal I/O Dimensions



(Unit: mm)

Series 5 Horizontal I/O Dimensions(with Dust Cover)



(Unit: mm)

Easy to Use: Simple configuration and setup
Easy Expansion: Dual Ethernet ports for module daisy-chaining
Excellent Compatibility: Compatible with major mainstream controllers
Easy Installation: Standard 35 mm DIN rail mounting, can also be installed directly



Single-wire Digital I/O

1	EC5R-3200	EtherCAT, Integrated I/O, 32DI, NPN&PNP compatible, RJ45 communication port, push-in terminal
2	EC5R-0032A	EtherCAT, Integrated I/O, 32DO, NPN, RJ45 communication port, push-in terminal
3	EC5R-0032B	EtherCAT, Integrated I/O, 32DO, PNP, RJ45 communication port, push-in terminal
4	EC5R-1616A	EtherCAT, Integrated I/O, 16DI, NPN&PNP compatible; 16DO, NPN; RJ45 communication port, push-in terminal
5	EC5R-1616B	EtherCAT, Integrated I/O, 16DI, NPN&PNP compatible; 16DO, PNP, RJ45 communication port, push-in terminal
6	EC5R-1616A+	EtherCAT, Integrated I/O, 16DI, PNP; 16DI, DO compatible, NPN; RJ45 communication port, push-in terminal
7	EC5R-1616B+	EtherCAT, Integrated I/O, 16DI, PNP; 16DI, DO compatible, PNP; RJ45 communication port, push-in terminal
8	PN5R-3200	PROFINET, Integrated I/O, 32DI, NPN&PNP compatible, RJ45 communication port, push-in terminal
9	PN5R-0032A	PROFINET, Integrated I/O, 32DO, NPN, RJ45 communication port, push-in terminal
10	PN5R-0032B	PROFINET, Integrated I/O, 32DO, PNP, RJ45 communication port, push-in terminal
11	PN5R-1616A	PROFINET, Integrated I/O, 16DI, NPN&PNP compatible; 16DO, NPN; RJ45 communication port, push-in terminal
12	PN5R-1616B	PROFINET, Integrated I/O, 16DI, NPN&PNP compatible; 16DO, PNP; RJ45 communication port, push-in terminal
13	PN5R-1616A+	PROFINET, Integrated I/O, 16DI, PNP; 16DI, DO compatible, NPN; RJ45 communication port, push-in terminal
14	PN5R-1616B+	PROFINET, Integrated I/O, 16DI, PNP; 16DI, DO compatible, PNP; RJ45 communication port, push-in terminal
15	XX5-FCZ-1	Dust cover for series 5 32-channel module

> Bus Valve Terminal

C3 Series



- ① Ready to use: No assembly or wiring required
- ② IP65 protection rating for a wider range of applications
- ③ Bottom-plug valve design for quick replacement and maintenance

C2S / C2P Series



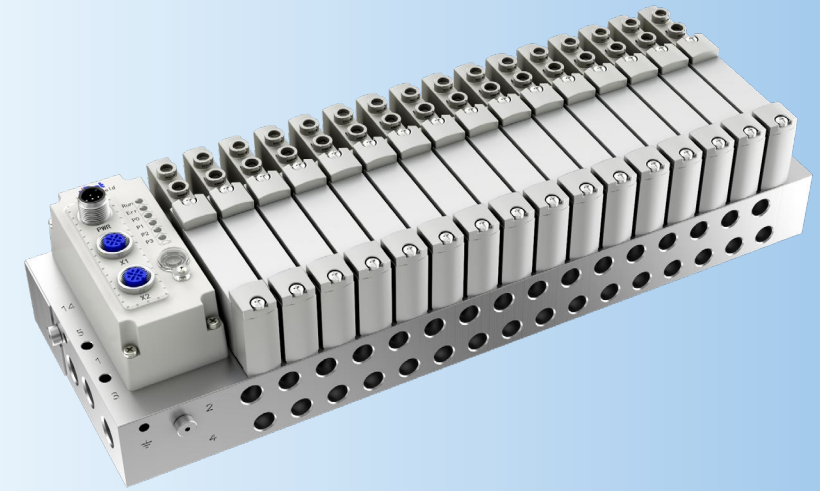
- ① Compatible with a wide range of third-party solenoid valve slices
- ② Supports both M12 and RJ45 interfaces
- ③ Supports multiple communication protocols

XB6 Series



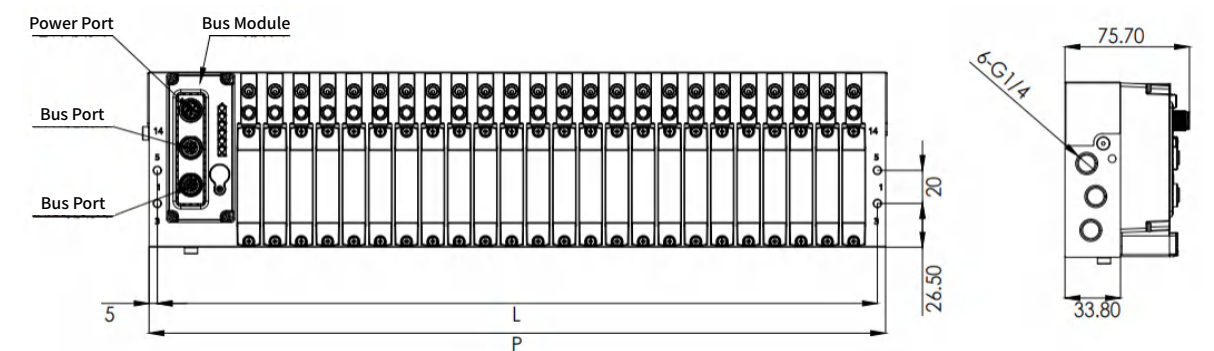
- ① Can be used with Slice I/O, supports magnetic switches and other sensors
- ② Compatible with a wide range of third-party solenoid valve slices
- ③ Supports multiple communication protocols

>> BUS VALVE TERMINAL – C3 SERIES



- ① Ready to use: Eliminates assembly and wiring of solenoid valves, fittings, and other accessories
- ② Bottom-plug solenoid valve design: Fast replacement and maintenance
- ③ 50 million operation life: Reduced maintenance frequency and improved equipment reliability
- ④ IP65 protection rating, 8 solenoid valve functions, internal/external pilot support, and pressure zone support: Covers a wider range of applications

C3 Series Valve Terminal Dimensions



(Unit: mm)

Number of Positions	4	8	12	16	20	24
L10 Solenoid Valve – Dimension L	93.6	136.2	178.8	221.4	264	306.6
L10 Solenoid Valve – Dimension P	103.6	146.2	188.8	231.4	274	316.6
L14 Solenoid Valve – Dimension L	118	182	246	310	374	438
L14 Solenoid Valve – Dimension P	128	192	256	320	384	448

C3 Series Valve Terminal Naming Code

C3-L14-W-XBF-08-2M1B3TC2N-Q8 L-U L-Q6-8 S

(1) (2) (3) (4) (5) (6) (7) (8) (9)(10) (11) (12)(13)

	Meaning	Value Description				
1	Product Series	C3				
2	Solenoid Valve Width	L14: 14mm			L10: 10mm	
3	Pilot Type	Blank: Internal Pilot			W: External Pilot	
4	Communication Protocol	EC: EtherCAT	PN: PROFINET	EI: EtherNet/IP	CB: CC-Link IE Field Basic	XBF
5	Number of positions	04、 06、 08、 10、 12、 14、 16、 18、 20、 22、 24				
6	Valve Function	Refer to the Solenoid Valve Model Code Table below				
7	Air Inlet Port Size	Q8: 8mm		Q10: 10mm		Q12: 12mm
8	Air Inlet Position	L: Left		R: Right		Both Sides
9	Exhaust Port	U: Plastic Silencer				
10	Exhaust Position	L: Left		R: Right		Both Sides
11	Valve Fitting	Q4: 4mm Fitting		Q6: 6mm Fitting		Q8: 8mm Fitting
12	Pressure Zone Position	Blank: No Pressure Zone			X: Create a pressure zone after the Xth valve (e.g., create a pressure zone after the 8th valve).	
13	Pressure Zone	S: Pressure Zone for Air Supply Port 1		U: Pressure Zone for Air Supply Ports 3 and 5		G: Pressure Zone for Air Supply Ports 1, 3, and 5

	Code	Model	Description
Solenoid Valve	M	SDVG-B**-M52-ME-F-24	5/2-way single solenoid valve, spring return
	B	SDVG-B**-B52-E-F-24	5/2-way double solenoid valve
	C	SDVG-B**-P53C-ME-F-24	5/3-way valve, closed center
	E	SDVG-B**-P53E-ME-F-24	5/3-way valve, exhaust center
	P	SDVG-B**-P53P-ME-F-24	5/3-way valve, pressure center
	TC	SDVG-B**-T32C-ME-F-24	2 x 3/2-way valves, 2 normally closed, spring return
	TB	SDVG-B**-T32B-ME-F-24	2 x 3/2-way valves, 1 normally closed, 1 normally open, spring return
	TO	SDVG-B**-T32O-ME-F-24	2 x 3/2-way valves, 2 normally open, spring return
	N	SDVG-B**	Blank valve position

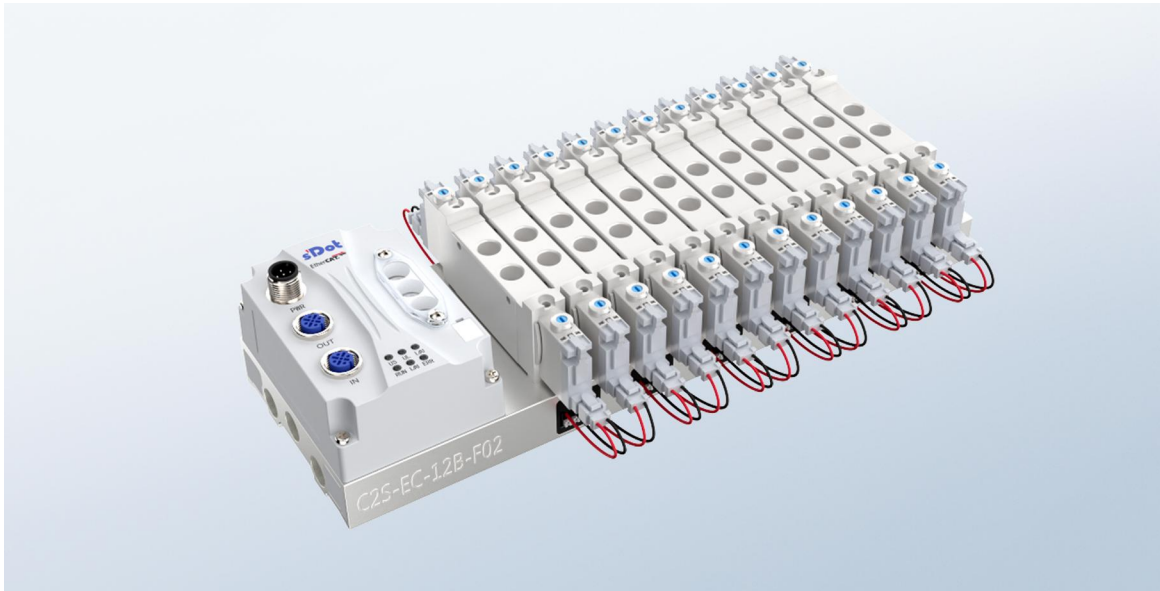
Note: If L10 is selected, "" = 10; if L14 is selected, "" = 14.

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C3 Valve Terminal Cable

C3 Valve Terminal Wiring	Application		Model	Description	Remarks
PLC to C3 ValveTerminal Communication	Pre-molded Cable	Fixed Installation, Shielded PVC	AZG/R-1.0CS	M12 Straight / RJ45, D-code, 4-pin male, 1 m, Green, Shielded, PVC	"1.0" indicates a cable length of 1 m, and so on.
		Fixed Installation, Shielded PUR	AZG/R-1.0RS	M12 Straight / RJ45, D-code, 4-pin male, 1 m, Green, Shielded, PUR	/
		Drag Chain Installation, Shielded PUR	AZG/R-1.0RST	M12 Straight / RJ45, D-code, 4-pin male, 1 m, Green, Shielded, PUR, 5 Million Flex Cycles	Drag chain life: 5 million flex cycles
	Field-wireable Connector	M12 Male	AZG-LP	M12 Straight, D-code, 4-pin male, screw termination, plastic housing	Unshielded connector
			AZG-LM	M12 Straight, D-code, 4-pin male, screw termination, metal housing, shielded	Shielded connector
C3 Valve Terminal Daisy-chain Communication	Pre-molded Cable	Fixed Installation, Shielded PVC	AZG/AZG-1.0CS	M12 Straight / M12 Straight, D-code, 4-pin male, 1 m, Green, Shielded, PVC	/
		Fixed Installation, Shielded PUR	AZG/AZG-1.0RS	M12 Straight, D-code, 4-pin male, 1 m, Green, Shielded, PUR	/
		Drag Chain Installation, Shielded PUR	AZG/AZG-1.0RST	M12 Straight, D-code, 4-pin male, 1 m, Green, Shielded, PUR, 5 Million Flex Cycles	Drag chain life: 5 million flex cycles
	Field-wireable Connector	M12 Male	AZG-LP	M12 Straight, D-code, 4-pin male, screw termination, plastic housing	Unshielded connector
			AZG-LM	M12 Straight, D-code, 4-pin male, screw termination, metal housing, shielded	Shielded connector
C3 Valve Terminal Power Supply	Pre-molded Cable	Fixed Installation, Unshielded PVC	CZM/S-1.0C	M12 Straight / Flying Leads, A-code, 5-pin female, 1 m, Black, Unshielded, PVC	/
		Fixed Installation, Shielded PUR	CZM/S-1.0RS	M12 Straight / Flying Leads, A-code, 5-pin female, 1 m, Black, Shielded, PUR	/
		Drag Chain Installation, Unshielded PUR	CZM/S-1.0RT	M12 Straight / Flying Leads, A-code, 5-pin female, 1 m, Black, Unshielded, PUR, 5 Million Flex Cycles	Drag chain life: 5 million flex cycles
	Field-wireable Connector	M12 Male	CZM-LP	M12 Straight, A-code, 5-pin female, screw termination, plastic housing	Unshielded connector

>> INTEGRATED VALVE TERMINAL
- C2S SERIES WITH M12 INTERFACE



C2S - EC - 12 B - F01

① ② ③ ④

Code ① : Fieldbus protocol

Code	EC	PN	EI	CB	CL	XBF
Protocol	EtherCAT	PROFINET	EtherNet/IP	CC-Link IE Field Basic	CC-Link	离散式

Code ② : Valve positions

04	06	08	10	12	14	16	18	20	22	24
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Code ③ : Solenoid valve mounting method

A (Single side outlet)	B (Both side outlets)
------------------------	------------------------

Code ④ : Compatible solenoid valve models (Rated voltage DC24V)

Brands	Serial number	Series		Brands	Serial number	Series	
FESTO	F01	VUVG-LK10	VUVG-L10	AirTAC	A01	4V1	
	F02	VUVG-LK14	VUVG-L14		A02	4V2	
SMC	S01	SY3			A04	7V0	
	S02	SY5			A05	7V1	
	S03	SY7			A06	7V2	
	S07	SYJ3			A07	5V1	
	S08	SYJ5			A08	5V2	
	S09	VQZ100			A09	3V1	
					A10	3V2	
CKD	C01	4GD1	4RD1		A13	6SV1	
	C02	4GD2	4RD2		A14	6SV2	

>> C2S VALVE TERMINAL WIRING

C2S Valve Terminal Cable		Application		Model	Description	Remarks
EC PN EI CB	PLC to C2S Valve Terminal Communication	Pre-molded Cable	Fixed Installation, Shielded PVC	AZG/R-1.0CS	M12 Straight / RJ45, D-code, 4-pin male, 1 m, Green, Shielded, PVC	"1.0" indicates a cable length of 1 m, and so on.
			Fixed Installation, Shielded PUR	AZG/R-1.0RS	M12 Straight / RJ45, D-code, 4-pin male, 1 m, Green, Shielded, PUR	/
			Drag Chain Installation, Shielded PUR	AZG/R-1.0RST	M12 Straight / RJ45, D-code, 4-pin male, 1 m, Green, Shielded, PUR, 5 Million Flex Cycles	Drag chain life: 5 million flex cycles
		Field-wireable Connector	M12 Male	AZG-LP	M12 Straight, D-code, 4-pin male, screw termination, plastic housing	Unshielded connector
				AZG-LM	M12 Straight, D-code, 4-pin male, screw termination, metal housing, shielded	Shielded connector
	C3 Valve Terminal Daisy-chain Communication	Pre-molded Cable	Fixed Installation, Shielded PVC	AZG/AZG-1.0CS	M12 Straight / M12 Straight, D-code, 4-pin male, 1 m, Green, Shielded, PVC	/
			Fixed Installation, Shielded PUR	AZG/AZG-1.0RS	M12 Straight, D-code, 4-pin male, 1 m, Green, Shielded, PUR	/
			Drag Chain Installation, Shielded PUR	AZG/AZG-1.0RST	M12 Straight, D-code, 4-pin male, 1 m, Green, Shielded, PUR, 5 Million Flex Cycles	Drag chain life: 5 million flex cycles
		Field-wireable Connector	M12 Male	AZG-LP	M12 Straight, D-code, 4-pin male, screw termination, plastic housing	Unshielded connector
				AZG-LM	M12 Straight, D-code, 4-pin male, screw termination, metal housing, shielded	Shielded connector
	CL	PLC to C2S Valve Terminal Communication	Pre-molded Cable	Fixed Installation, Shielded PVC	CZM/S-1.0CS	M12 Straight / Flying Leads, A-code, 5-pin female, 1 m, Red, Shielded, PVC
Field-wireable Connector			M12 Female	CZM-LP	M12 Straight, A-code, 5-pin female, screw termination, plastic housing	Unshielded connector
C2S Valve Terminal Daisy-chain Communication		Pre-molded Cable	Fixed Installation, Shielded PVC	DZG/CZM-1.0CS	M12 Straight / M12 Straight, A-code, 4-pin male / 5-pin female, 1 m, Red, Shielded, PVC	Dedicated cable for CC-Link
		Field-wireable Connector	M12 Male	CZG-LP	M12 Straight, A-code, 5-pin male, screw termination, plastic housing	Unshielded connector
			M12 Female	CZM-LP	M12 Straight, A-code, 5-pin female, screw termination, plastic housing	Unshielded connector
C3 Valve Terminal Power Supply	Pre-molded Cable	Fixed Installation, Unshielded PVC	CZM/S-1.0C	M12 Straight / Flying Leads, A-code, 5-pin female, 1 m, Black, Unshielded, PVC	/	
		Fixed Installation, Shielded PUR	CZM/S-1.0RS	M12 Straight / Flying Leads, A-code, 5-pin female, 1 m, Black, Shielded, PUR	/	
		Drag Chain Installation, Unshielded PUR	CZM/S-1.0RT	M12 Straight / Flying Leads, A-code, 5-pin female, 1 m, Black, Unshielded, PUR, 5 Million Flex Cycles	Drag chain life: 5 million flex cycles	
		Field-wireable Connector	M12 Male	CZM-LP	M12 Straight, A-code, 5-pin female, screw termination, plastic housing	Unshielded connector

>> INTEGRATED VALVE TERMINAL
- C2P SERIES WITH RJ45 INTERFACE



C2P - EC - 12 B - F01

① ② ③ ④

Code ① : Fieldbus protocol

Code	EC	PN	EI	CB	XBF
Protocol	EtherCAT	PROFINET	EtherNet/IP	CC-Link IE Field Basic	Discrete

Code ② : Valve positions

04	06	08	10	12	14	16	18	20	22	24
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Code ③ : Solenoid valve mounting method

A (Single side outlet)	B (Both-side outlets)
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Code ④ : Compatible solenoid valve models (Rated voltage DC24V)

Brands	Model Code	Series		Brands	Model Code	Series	
FESTO	F01	VUVG-LK10	VUVG-L10	AirTAC	A01	4V1	
	F02	VUVG-LK14	VUVG-L14		A02	4V2	
SMC	S01	SY3			A04	7V0	
	S02	SY5			A05	7V1	
	S03	SY7			A06	7V2	
	S07	SYJ3			A07	5V1	
	S08	SYJ5			A08	5V2	
	S09	VQZ100			A09	3V1	
CKD	C01	4GD1	4RD1		A10	3V2	
	C02	4GD2	4RD2		A13	6SV1	
					A14	6SV2	

>> INTEGRATED VALVE TERMINAL
- BOTTOM PORTED PLUG-IN SERIES



Features: Supports M12-type, RJ45-type, and multi-pin interfaces.

C2S - EC - 12 C - A12

① ② ③ ④

Code ① :

C2S Fieldbus protocol

Code	EC	PN	EI	CB	CL	OO	XBF
Protocol	EtherCAT	PROFINET	EtherNet/IP	CC-Link IE Field Basic	CC-Link	Multi-pin interface	Discrete

C2P Fieldbus protocol

Code	EC	PN	EI	CB	XBF
Protocol	EtherCAT	PROFINET	EtherNet/IP	CC-Link IE Field Basic	Discrete

Code ② : Valve positions

04	06	08	10	12	14	16	18	20	22	24
----	----	----	----	----	----	----	----	----	----	----

Code ③ : Solenoid valve mounting method

C (Bottom plug-in installation)

Code ④ : Solenoid valve models (The rated voltage is DC24V and the bottom plug-in installation is selected). This valve terminal is adapted to the following series of solenoid valves.

Brands	Model Code	Series	
AirTAC	A12	4V210	

>> INTEGRATED VALVE TERMINAL - MULTI-PIN D SUB SERIES



C2S - 00 - 12 B - F01

① ② ③

Code ① : Valve positions

04	06	08	10	12	14	16	18	20	22	24
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Code ② : Solenoid valve mounting method

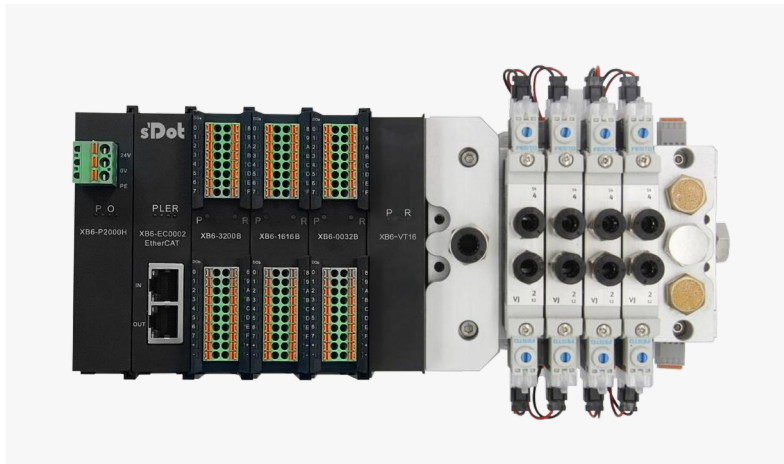
A (Single side outlet)	B (Both-side outlets)
------------------------	------------------------

Code ③ : Compatible solenoid valve models (Rated voltage DC24V)

Brands	Code	Series	Brands	Code	Series
FESTO	F01	VUVG-LK10	AirTAC	A01	4V1
	F02	VUVG-LK14		A02	4V2
SMC	S01	SY3		A04	7V0
	S02	SY5		A05	7V1
	S03	SY7		A06	7V2
	S07	SYJ3		A07	5V1
	S08	SYJ5		A08	5V2
	S09	VQZ100		A09	3V1
CKD	C01	4GD1		A10	3V2
	C02	4GD2		A13	6SV1
				A14	6SV2

C2S-00 Valve Terminal Cable	Model	Description
	DB25-S-24-150	DB25 Dual-Row Cable, 1.5 m
	DB25-S-24-300	DB25 Dual-Row Cable, 3 m
	DB25-S-24-500	DB25 Dual-Row Cable, 5 m

>> SLICE VALVE TERMINAL



SLICE VALVE TERMINAL

Features: The slice valve terminal can be used in conjunction with the Solidot XB6 series slice I/O, resulting in a more compact structure and more flexible applications.

XB6 - (VUVG-L14) - 16 - G - N

① ② ③ ④ ⑤

Code ① : Selected bus protocol

Code	Protocol
XB6	X-bus

Code ② : Specific solenoid valve model (rated voltage DC24V, selected wire lead-out type). If both single and dual solenoid valves exist, only specify the single solenoid valve. This valve terminal is compatible with the following series of solenoid valves:

Brand	Series	Brand	Series
FESTO	VUVG -L10/LK10	AirTAC	4V100M
	VUVG -L14/LK14		4V200M
SMC	SY3		7V0500M
	SY5		7V100M
	SY7		7V200M
		CKD	4GD1
			4GD2

Customization is also available for solenoid valves with similar installation dimensions to the above.

Code ③ : Number of solenoid valve positions, 04-16 (maximum 16 positions for single solenoid control, maximum 16 positions for dual solenoid control).

Code ④ : Manifold inlet and outlet threads (default is consistent with solenoid valve thread type)

Code	G	R	N	M
Thread	G Thread	RC Thread	NPT Thread	Metric Thread

Code ⑤ : Provide sealing gaskets and screws for solenoid valve installation (default is customer-supplied solenoid valve)

Customer-supplied	Requires our company to provide
Y	N

> Pre-injection Connector

Pre-molded connectors, also known as precast cables, are an important component of the IP67 bus I/O system. Compared to field-wiring connectors, they can significantly reduce installation costs and save installation time. Their material and structural characteristics allow them to be used in various industrial environments such as damp and oily environments, while still meeting IP67 protection requirements. We also offer a variety of sheathed and functional cable options for different application environments.



>> Fixed Installation Type

Two types of fixed installation cables are available:

- ① PVC sheathed cables meet the needs of most field environments, offering excellent economic benefits and are the standard configuration for connection systems;
- ② PUR sheathed cables are particularly suitable for oily and low-temperature environments, featuring full shielding for better anti-interference capabilities;
- ③ Standard cable lengths are 0.5/1/2/3/5/10/15/20 meters; other lengths can be customized.

>>> PVC Outer Sheathing

Cable Type	Shielding	Thread Color	Conductor Cross-sectional Area	Wire Diameter	Companion Interface	Cable Certifications
Ethernet Communication Cable	Shielded	Green	4 × 0.34mm ² (22AWG)	6.5±0.3mm	M12 D-code	CE、RoHS
Power Cable	Unshielded	Black	5 × 1.50mm ² (16AWG)	8.4±0.3mm	M12 L-code	
I/O Cable	Unshielded	Black	5 × 0.34mm ² (22AWG)	5.2±0.3mm	M12 A-code	
CC-Link Cable	Shielded	Red	3 × 0.56mm ² (20AWG)	7.7±0.3mm	M12 A-code	
Ethernet Communication Cable	Shielded	Green	4 × 0.25mm ² (24AWG)	6.0±0.3mm	M8 A-code	

>>> PUR Outer Sheathing

Cable Type	Shielding	Thread Color	Conductor Cross-sectional Area	Wire Diameter	Companion Interface	Cable Certifications
Ethernet Communication Cable	Shielded	Green	4 × 0.34mm ² (22AWG)	6.5±0.3mm	M12 D-code	CE、RoHS
Power Cable	Shielded	Black	5 × 1.50mm ² (16AWG)	9.6±0.4mm	M12 L-code	
I/O Cable	Shielded	Black	5 × 0.34mm ² (22AWG)	6.0±0.3mm	M12 A-code	

>> Drag Chain Installation Type

We can provide the following specifications of the drag chain line customization services.

- ① Durability: PUR, bending radius 10D, bending times 5 million times.
- ② Length: Drag chain cable length can be customized as required (0.5/1/2/3 meters, etc.)

Category	Model	Description
① Ethernet Communication Cable	R/R-*.0RST	RJ45/RJ45, *.0m, green with shielded, PUR, 5 million cycles
	AZG/R-*.0RST	M12 straight/RJ45, D-Code, 4-pin male, *.0m, green with shielded, PUR, 5 million cycles
	AZG/AZG-*.0RST	M12 straight/M12 straight, D-Code, 4-pin male, *.0m, green with shielded, PUR, 5 million cycles

② Module Power Cable	BZM/S-*.0RT	M12 straight/loose wires, L-Code, 5-pin female, *.0m, black unshielded, PUR, 5 million cycles
	BZG/BZM-*.0RT	M12 straight/M12 straight, L-Code, 5-pin male/female, *.0m, black unshielded, PUR, 5 million cycles

③ Valve Terminal Power Cable	CZM/S-*.0RT	M12 straight/loose wires, A-Code, 5-pin female, *.0m, black unshielded, PUR, 5 million cycles
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④ I/O Cable	CZG/S-*.0RT	M12 straight/loose wires, A-Code, 5-pin male, *.0m, black unshielded, PUR, 5 million cycles
	CZG/CZM-*.0RT	M12 straight/M12 straight, A-Code, 5-pin male/female, *.0m, black unshielded, PUR, 5 million cycles
	CZG/CZM-*.0RST	M12 straight/M12 straight, A-Code, 5-pin male/female, *.0m, back with shielded, PUR, 5 million cycles

⑤ Communication Cable(M8 interface)	KZG/R-*.0RST-XBF	M8 Straight / RJ45, A-code, 4-pin male, *.0 m, Green, Shielded, PUR, 5 million flex cycles
	KZG/KZG-*.0RST-XBF	M8 Straight / M8 Straight, A-code, 4-pin male,*.0 m, Green, Shielded, PUR, 5 million flex cycles

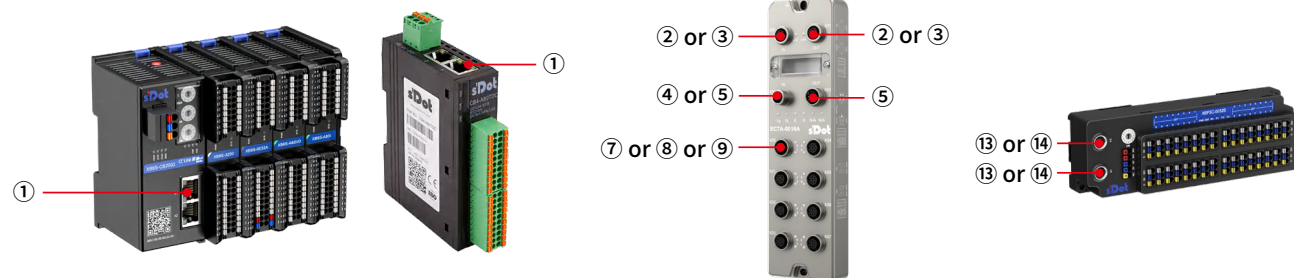
*Note: .0 is the required length, e.g., 1.0 means 1 meter

>> Fixed Installation Type—PVC

IP20 Fieldbus I/O

IP67 Fieldbus I/O

Discrete I/O M8 interface



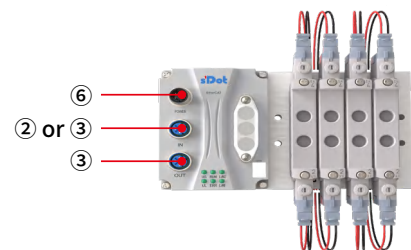
Category	Model	Description
① Communication Cable	R/R-0.5CS	RJ45/RJ45, 0.5m, green with shielded, PVC
	R/R-1.0CS	RJ45/RJ45, 1m, green with shielded, PVC
	R/R-2.0CS	RJ45/RJ45, 2m, green with shielded, PVC
	R/R-3.0CS	RJ45/RJ45, 3m, green with shielded, PVC
	R/R-5.0CS	RJ45/RJ45, 5m, green with shielded, PVC
	R/R-10.0CS	RJ45/RJ45, 10m, green with shielded, PVC
② Communication Cable	AZG/R-0.5CS	M12 straight/RJ45, D-code, Male 4-pin, 0.5m, green with shielded, PVC
	AZG/R-1.0CS	M12 straight/RJ45, D-code, Male 4-pin, 1m, green with shielded, PVC
	AZG/R-2.0CS	M12 straight/RJ45, D-code, Male 4-pin, 2m, green with shielded, PVC
	AZG/R-3.0CS	M12 straight/RJ45, D-code, Male 4-pin, 3m, green with shielded, PVC
	AZG/R-5.0CS	M12 straight/RJ45, D-code, Male 4-pin, 5m, green with shielded, PVC
	AZG/R-10.0CS	M12 straight/RJ45, D-code, Male 4-pin, 10m, green with shielded, PVC
③ Communication Cable	AZG/AZG-0.5CS	M12 straight/M12 straight, D-code, Male 4-pin, 0.5m, green with shielded, PVC
	AZG/AZG-1.0CS	M12 straight/M12 straight, D-code, Male 4-pin, 1m, green with shielded, PVC
	AZG/AZG-2.0CS	M12 straight/M12 straight, D-code, Male 4-pin, 2m, green with shielded, PVC
	AZG/AZG-3.0CS	M12 straight/M12 straight, D-code, Male 4-pin, 3m, green with shielded, PVC
	AZG/AZG-5.0CS	M12 straight/M12 straight, D-code, Male 4-pin, 5m, green with shielded, PVC
	AZG/AZG-10.0CS	M12 straight/M12 straight, D-code, Male 4-pin, 10m, green with shielded, PVC
④ Module Power Cable	BZM/S-0.5C	M12 straight/Flying Leads, L-code, Female 5-pin, 0.5m, black unshielded, PVC
	BZM/S-1.0C	M12 straight/Flying Leads, L-code, Female 5-pin, 1m, black unshielded, PVC
	BZM/S-2.0C	M12 straight/Flying Leads, L-code, Female 5-pin, 2m, black unshielded, PVC
	BZM/S-3.0C	M12 straight/Flying Leads, L-code, Female 5-pin, 3m, black unshielded, PVC
	BZM/S-5.0C	M12 straight/Flying Leads, L-code, Female 5-pin, 5m, black unshielded, PVC
	BZM/S-10.0C	M12 straight/Flying Leads, L-code, Female 5-pin, 10m, black unshielded, PVC
⑤ Module Power Cable	BZG/BZM-0.5C	M12 straight/M12 straight, L-code, Male 5-pin/Female 5-pin, 0.5m, black unshielded, PVC
	BZG/BZM-1.0C	M12 straight/M12 straight, L-code, Male 5-pin/Female 5-pin, 1m, black unshielded, PVC
	BZG/BZM-2.0C	M12 straight/M12 straight, L-code, Male 5-pin/Female 5-pin, 2m, black unshielded, PVC
	BZG/BZM-3.0C	M12 straight/M12 straight, L-code, Male 5-pin/Female 5-pin, 3m, black unshielded, PVC
	BZG/BZM-5.0C	M12 straight/M12 straight, L-code, Male 5-pin/Female 5-pin, 5m, black unshielded, PVC
	BZG/BZM-10.0C	M12 straight/M12 straight, L-code, Male 5-pin/Female 5-pin, 10m, black unshielded, PVC
⑥ Valve Terminal Power Cable	CZM/S-0.5C	M12 straight/Flying Leads, A-code, Female 5-pin, 0.5m, black unshielded, PVC
	CZM/S-1.0C	M12 straight/Flying Leads, A-code, Female 5-pin, 1m, black unshielded, PVC
	CZM/S-2.0C	M12 straight/Flying Leads, A-code, Female 5-pin, 2m, black unshielded, PVC
	CZM/S-3.0C	M12 straight/Flying Leads, A-code, Female 5-pin, 3m, black unshielded, PVC
	CZM/S-5.0C	M12straight/Flying Leads, A-code, Female 5-pin, 5m, black unshielded, PVC
	CZM/S-10.0C	M12straight/Flying Leads, A-code, Female 5-pin, 10m, black unshielded, PVC

Category	Model	Description
⑦ I/O Cable	CZG/S-0.5C	M12 straight/Flying Leads, A-code, Male 5-pin, 0.5m, black unshielded, PVC
	CZG/S-1.0C	M12 straight/Flying Leads, A-code, Male 5-pin, 1m, black unshielded, PVC
	CZG/S-2.0C	M12 straight/Flying Leads, A-code, Male 5-pin, 2m, black unshielded, PVC
	CZG/S-3.0C	M12 straight/Flying Leads, A-code, Male 5-pin, 3m, black unshielded, PVC
	CZG/S-5.0C	M12 straight/Flying Leads, A-code, Male 5-pin, 5m, black unshielded, PVC
	CZG/S-10.0C	M12straight/Flying Leads, A-code, Male 5-pin, 10m, black withshilded, PVC
⑧ I/O Cable	CZG/CZM-0.5C	M12 straight/M12 straight, A-code, Male 5-pin/Female 5-pin, 0.5m, black unshielded, PVC
	CZG/CZM-1.0C	M12 straight/M12 straight, A-code, Male 5-pin/Female 5-pin, 1m, black unshielded, PVC
	CZG/CZM-2.0C	M12 straight/M12 straight, A-code, Male 5-pin/Female 5-pin, 2m, black unshielded, PVC
	CZG/CZM-3.0C	M12 straight/M12 straight, A-code, Male 5-pin/Female 5-pin, 3m, black unshielded, PVC
	CZG/CZM-5.0C	M12 straight/M12 straight, A-code, Male 5-pin/Female 5-pin, 5m, black unshielded, PVC
	CZG/CZM-10.0C	M12 straight/M12 straight, A-code, Male 5-pin/Female 5-pin, 10m, black unshielded, PVC
⑨ I/O Cable*	CZG/CZM-0.5CS	M12 straight/M12 straight, A-code, Male 5-pin/Female 5-pin, 0.5m, black with shielded, PVC
	CZG/CZM-1.0CS	M12 straight/M12 straight, A-code, Male 5-pin/Female 5-pin, 1m, black with shielded, PVC
	CZG/CZM-2.0CS	M12 straight/M12 straight, A-code, Male 5-pin/Female 5-pin, 2m, black with shielded, PVC
	CZG/CZM-3.0CS	M12 straight/M12 straight, A-code, Male 5-pin/Female 5-pin, 3m, black with shielded, PVC
	CZG/CZM-5.0CS	M12 straight/M12 straight, A-code, Male 5-pin/Female 5-pin, 5m, black with shielded, PVC
	CZG/CZM-10.0CS	M12 straight/M12 straight, A-code, Male 5-pin/Female 5-pin, 10m, black with shielded, PVC
⑩ CC-Link Communication Cable	DZG/S-0.5CS	M12 straight/Flying Leads, A-code, Male 4-pin, 0.5m, red with shielded, PVC
	DZG/S-1.0CS	M12 straight/Flying Leads, A-code, Male 4-pin, 1m, red with shielded, PVC
	DZG/S-2.0CS	M12 straight/Flying Leads, A-code, Male 4-pin, 2m, red with shielded, PVC
	DZG/S-3.0CS	M12 straight/Flying Leads, A-code, Male 4-pin, 3m, red with shielded, PVC
	DZG/S-5.0CS	M12 straight/Flying Leads, A-code, Male 4-pin, 5m, red with shielded, PVC
	DZG/S-10.0CS	M12 straight/Flying Leads, A-code, Male 4-pin, 10m, red with shielded, PVC
⑪ CC-Link Communication Cable	CZM/S-0.5CS	M12 straight/Flying Leads, A-code, Female 5-pin, 0.5m, red with shielded, PVC
	CZM/S-1.0CS	M12 straight/Flying Leads, A-code, Female 5-pin, 1m, red with shielded, PVC
	CZM/S-2.0CS	M12 straight/Flying Leads, A-code, Female 5-pin, 2m, red with shielded, PVC
	CZM/S-3.0CS	M12 straight/Flying Leads, A-code, Female 5-pin, 3m, red with shielded, PVC
	CZM/S-5.0CS	M12 straight/Flying Leads, A-code, Female 5-pin, 5m, red with shielded, PVC
	CZM/S-10.0CS	M12 straight/Flying Leads, A-code, Female 5-pin, 10m, red with shielded, PVC
⑫ CC-Link Communication Cable	DZG/CZM-0.5CS	M12 straight/M12 straight, A-code, Male 4-pin/Female 5-pin, 0.5m, red with shielded, PVC
	DZG/CZM-1.0CS	M12 straight/M12 straight, A-code, Male 4-pin/Female 5-pin, 1m, red with shielded, PVC
	DZG/CZM-2.0CS	M12 straight/M12 straight, A-code, Male 4-pin/Female 5-pin, 2m, red with shielded, PVC
	DZG/CZM-3.0CS	M12 straight/M12 straight, A-code, Male 4-pin/Female 5-pin, 3m, red with shielded, PVC
	DZG/CZM-5.0CS	M12 straight/M12 straight, A-code, Male 4-pin/Female 5-pin, 5m, red with shielded, PVC
	DZG/CZM-10.0CS	M12 straight/M12 straight, A-code, Male 4-pin/Female 5-pin, 10m, red with shielded, PVC
⑬ Communication Cable	KZG/R-0.5CS-XBF	M8 straight/RJ45, A-code, Male 4-pin, 0.5m, green with shielded, PVC
	KZG/R-1.0CS-XBF	M8 straight/RJ45, A-code, Male 4-pin, 1m, green with shielded, PVC
	KZG/R-2.0CS-XBF	M8 straight/RJ45, A-code, Male 4-pin, 2m, green with shielded, PVC
	KZG/R-3.0CS-XBF	M8 straight/RJ45, A-code, Male 4-pin, 3m, green with shielded, PVC
	KZG/R-5.0CS-XBF	M8 straight/RJ45, A-code, Male 4-pin, 5m, green with shielded, PVC
	KZG/R-10.0CS-XBF	M8 straight/RJ45, A-code, Male 4-pin, 10m, green with shielded, PVC
⑭ Communication Cable	KZG/KZG-0.5CS-XBF	M8 straight/M8 straight, A-code, Male 4-pin, 0.5m, green with shielded, PVC
	KZG/KZG-1.0CS-XBF	M8 straight/M8 straight, A-code, Male 4-pin, 1m, green with shielded, PVC
	KZG/KZG-2.0CS-XBF	M8 straight/M8 straight, A-code, Male 4-pin, 2m, green with shielded, PVC
	KZG/KZG-3.0CS-XBF	M8 straight/M8 straight, A-code, Male 4-pin, 3m, green with shielded, PVC
	KZG/KZG-5.0CS-XBF	M8 straight/M8 straight, A-code, Male 4-pin, 5m, green with shielded, PVC
	KZG/KZG-10.0CS-XBF	M8 straight/M8 straight, A-code, Male 4-pin, 10m, green with shielded, PVC

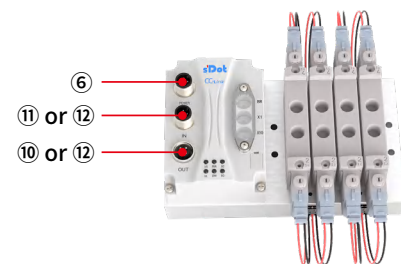
Note: ⑨ Compared to ⑧ , a shielding layer has been added to the cable, making it more suitable for environments with interference.

>> Fixed Installation Type—PUR

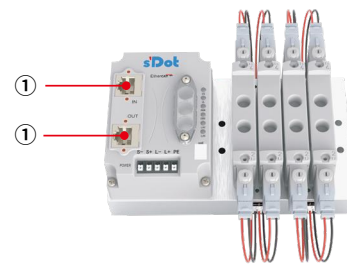
C2S Valve Terminal



C2S Valve Terminal(CC-Link)



C2P Valve Terminal



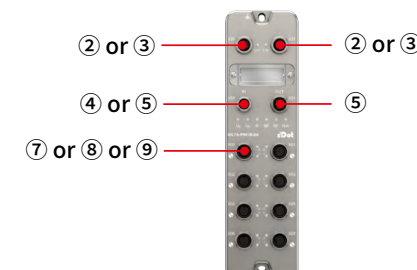
Category	Model	Description
① Communication Cable 	R/R-0.5RS	RJ45/RJ45, 0.5m, green, shielded, PUR
	R/R-1.0RS	RJ45/RJ45, 1m, green, shielded, PUR
	R/R-2.0RS	RJ45/RJ45, 2m, green, shielded, PUR
	R/R-3.0RS	RJ45/RJ45, 3m, green, shielded, PUR
	R/R-5.0RS	RJ45/RJ45, 5m, green, shielded, PUR
	R/R-10.0RS	RJ45/RJ45, 10m, green, shielded, PUR

② Communication Cable 	AZG/R-0.5RS	M12 straight/RJ45, D-Code, Male 4-pin, 0.5m, green, shielded, PUR
	AZG/R-1.0RS	M12 straight/RJ45, D-Code, Male 4-pin, 1m, green, shielded, PUR
	AZG/R-2.0RS	M12 straight/RJ45, D-Code, Male 4-pin, 2m, green, shielded, PUR
	AZG/R-3.0RS	M12 straight/RJ45, D-Code, Male 4-pin, 3m, green, shielded, PUR
	AZG/R-5.0RS	M12 straight/RJ45, D-Code, Male 4-pin, 5m, green, shielded, PUR
	AZG/R-10.0RS	M12 straight/RJ45, D-Code, Male 4-pin, 10m, green, shielded, PUR

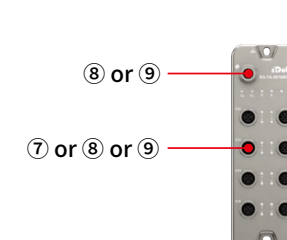
③ Communication Cable 	AZG/AZG-0.5RS	M12 straight/M12 straight, D-Code, Male 4-pin, 0.5m, green, shielded, PUR
	AZG/AZG-1.0RS	M12 straight/M12 straight, D-Code, Male 4-pin, 1m, green, shielded, PUR
	AZG/AZG-2.0RS	M12 straight/M12 straight, D-Code, Male 4-pin, 2m, green, shielded, PUR
	AZG/AZG-3.0RS	M12 straight/M12 straight, D-Code, Male 4-pin, 3m, green, shielded, PUR
	AZG/AZG-5.0RS	M12 straight/M12 straight, D-Code, Male 4-pin, 5m, green, shielded, PUR
	AZG/AZG-10.0RS	M12 straight/M12 straight, D-Code, Male 4-pin, 10m, green, shielded, PUR

④ Module Power Cable 	BZM/S-0.5RS	M12 straight/loose wires, L-Code, Female 5-pin, 0.5m, black, shielded, PUR
	BZM/S-1.0RS	M12 straight/loose wires, L-Code, Female 5-pin, 1m, black, shielded, PUR
	BZM/S-2.0RS	M12 straight/loose wires, L-Code, Female 5-pin, 2m, black, shielded, PUR
	BZM/S-3.0RS	M12 straight/loose wires, L-Code, Female 5-pin, 3m, black, shielded, PUR
	BZM/S-5.0RS	M12 straight/loose wires, L-Code, Female 5-pin, 5m, black, shielded, PUR
	BZM/S-10.0RS	M12 straight/loose wires, L-Code, Female 5-pin, 10m, black, shielded, PUR

IO-Link Master



IO-Link HUB



Category	Model	Description
⑤ Module Power Cable 	BZG/BZM-0.5RS	M12 straight/M12 straight, L-Code, Male 5-pin, /Female 5-pin, 0.5m, black, shielded, PUR
	BZG/BZM-1.0RS	M12 straight/M12 straight, L-Code, Male 5-pin, /Female 5-pin, 1m, black, shielded, PUR
	BZG/BZM-2.0RS	M12 straight/M12 straight, L-Code, Male 5-pin, /Female 5-pin, 2m, black, shielded, PUR
	BZG/BZM-3.0RS	M12 straight/M12 straight, L-Code, Male 5-pin, /Female 5-pin, 3m, black, shielded, PUR
	BZG/BZM-5.0RS	M12 straight/M12 straight, L-Code, Male 5-pin, /Female 5-pin, 5m, black, shielded, PUR
	BZG/BZM-10.0RS	M12 straight/M12 straight, L-Code, Male 5-pin, /Female 5-pin, 10m, black, shielded, PUR

⑥ Valve Terminal Power Cable 	CZM/S-0.5RS	M12 straight/loose wires, A-Code, Female 5-pin, 0.5m, black, shielded, MAX4A, PUR
	CZM/S-1.0RS	M12 straight/loose wires, A-Code, Female 5-pin, 1m, black, shielded, MAX4A, PUR
	CZM/S-2.0RS	M12 straight/loose wires, A-Code, Female 5-pin, 2m, black, shielded, MAX4A, PUR
	CZM/S-3.0RS	M12 straight/loose wires, A-Code, Female 5-pin, 3m, black, shielded, MAX4A, PUR
	CZM/S-5.0RS	M12 straight/loose wires, A-Code, Female 5-pin, 5m, black, shielded, MAX4A, PUR
	CZM/S-10.0RS	M12 straight/loose wires, A-Code, Female 5-pin, 10m, black, shielded, MAX 4A, PUR

⑦ I/O Cable 	CZG/S-0.5RS	M12 straight/loose wires, A-Code, Male 5-pin, , 0.5m, black, shielded, PUR
	CZG/S-1.0RS	M12 straight/loose wires, A-Code, Male 5-pin, , 1m, black, shielded, PUR
	CZG/S-2.0RS	M12 straight/loose wires, A-Code, Male 5-pin, , 2m, black, shielded, PUR
	CZG/S-3.0RS	M12 straight/loose wires, A-Code, Male 5-pin, , 3m, black, shielded, PUR
	CZG/S-5.0RS	M12 straight/loose wires, A-Code, Male 5-pin, , 5m, black, shielded, PUR
	CZG/S-10.0RS	M12 straight/loose wires, A-Code, Male 5-pin, 10m, black, shielded, PUR

⑧ I/O Cable 	CZG/CZM-0.5RS	M12 straight/loose wires, A-Code, Male 5-pin, , 0.5m, black, shielded, PUR
	CZG/CZM-1.0RS	M12 straight/loose wires, A-Code, Male 5-pin, , 1m, black, shielded, PUR
	CZG/CZM-2.0RS	M12 straight/loose wires, A-Code, Male 5-pin, , 2m, black, shielded, PUR
	CZG/CZM-3.0RS	M12 straight/loose wires, A-Code, Male 5-pin, , 3m, black, shielded, PUR
	CZG/CZM-5.0RS	M12 straight/loose wires, A-Code, Male 5-pin, , 5m, black, shielded, PUR
	CZG/CZM-10.0RS	M12 straight/loose wires, A-Code, Male 5-pin, 10m, black, shielded, PUR

> Splitter

The splitter’ s main function is to extend the I/O interface of the modules. Solidot offers the M12/M8 Y junction, the M12/M12 Y junction, the M12/M12 T junction, and the Y junction with extension cables. The two branches can be connected either directly to M8/M12 sensors or via to open-end sensors via field-wireable connectors. Both connections can meet the requirements of the IP67 protection class.

	Model	Description
	DYG/EYM	M12/M8 Y junction, A-code, male 4-pin/female 3-pin
	DYG/GYM	M12/M12 Y junction, A-code, male 4-pin/female 3-pin
	DTG/GTM	M12/M12 T junction, A-code, male 4-pin/female 3-pin
	DYG/EYM-0.1C	M12/M8 Y junction, A-code, 4-core male/3-core female, with 0.1m PVC extension cable (customizable extension cable length)
	DYG/GYM-0.1C	M12/M12 Y junction, A-code, male 4-pin/female 3-pin, 0.1m PVC extension cable included (the length can be customized)
	DZG-LP-D	M12 straight connector, A-Code, 4-pin male, screw-type wiring, plastic housing, dual cable exits.

> Field-wireable Connector

Field-mounted connectors, also known as assembly connectors, are commonly used in scenarios where custom-length cables need to be assembled manually. We use a screw-type wiring solution and prioritize providing customers with unshielded (plastic) straight-structure connectors. The internal elastic rubber body and cable tie design enable it to meet IP67 protection requirements.

	Model	Description
	EZG-LP	M8 straight, A-code, male 3-pin, screw connection, plastic housing
	EZM-LP	M8 Straight, A-code, 3-pin female, screw termination, plastic housing
	KZG-LP	M8 Straight, A-code, 4-pin male, screw termination, plastic housing
	KZM-LP	M8 Straight, A-code, 4-pin female, screw termination, plastic housing
	AZG-LP	M12 straight, D-code, male 4-pin, screw connection, plastic housing
	AZM-LP	M12 Straight, D-code, 4-pin female, screw termination, plastic housing
	BZG-LP	M12 straight, L-code, male 5-pin, screw connection, plastic housing
	BZM-LP	M12 straight, L-code, female 5-pin, screw connection, plastic housing
	CZG-LP	M12 straight, A-code, male 5-pin, screw connection, plastic housing
	CZM-LP	M12 straight, A-code, female 5-pin, screw connection, plastic housing
	DZG-LP	M12 Straight, A-code, 4-pin male, screw termination, plastic housing
	DZM-LP	M12 Straight, A-code, 4-pin female, screw termination, plastic housing

> Accessories

	Model	Description
	DZG-ZP	CC-Link terminal resistance, M12 straight, A-code, female 4-pin, 110Ω, 1/2W
	PZG-LP	PROFIBUS-DP socket, vertical, no programming port, built-in terminal resistance, adjustable by slide switch
	FZM-LP	M12 female dust cap
	FZG-LP	M12 male dust cap

■ Solidot — I/O Expert



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