INNOVATIVE INTERCONNECTION
INTELLIGENT FUTURE

s'Dot

SOLIDOT PRODUCTS

Comprehensive Selection Manual

Nanjing Solidot Electronic Technology Co., Ltd

CONTENTS

COMPANY INTRODUCTION

Solidot core team was founded in 2012 and developed the first generation of domestic sliced I/O module in the following year. In 2018, Solidot underwent business restructuring, focusing its strategic core on the research and development of automation bus technology and products. The company has now completed multiple rounds of equity financing, has successfully been selected for the list of unicorn enterprises in Nanjing, and has become a leading supplier of automation bus technology, products, and solutions in China.

Over the years, Solidot has focused on industrial bus technology to achieve interconnectivity of industrial products. The products have been widely used in industries and fields such as 3C, new energy, logistics, welding, water treatment, building control, and factory monitoring.

▷ BUSINESS VISION

Leading Industrial Interconnection, Making Smart Manufacturing Easier.

DEVELOPMENT HISTORY

2022
Achieved multiple rounds of financing
Received favors from industrial capital
Released sliced/ multi-channel temperature
controller, supporting various bus protocols

2021
Selected in the list of unicorn enterprises cultivated in Nanjing
Released the first sliced stepper driver in China, supporting
various bus protocols

2020
Awarded high-tech enterprise certification
Released horizontal I/O with multiple protocol support

2019
Achieved Pre-A round of financing led by well-known government capital
Released X-bus1.0 backplane protocol, based on which XB6 series high
performance sliced I/O was released

2018
Core Team Acquires Solidot Technology
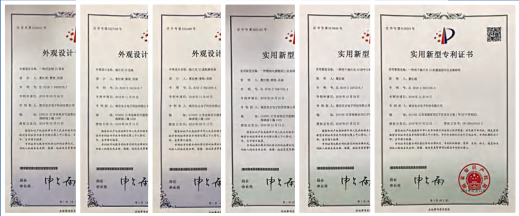Released Vertical I/O, supporting various protocols
Achieved angel funding round

CERTIFIED PATENTS

Certifications

Patent Certificates
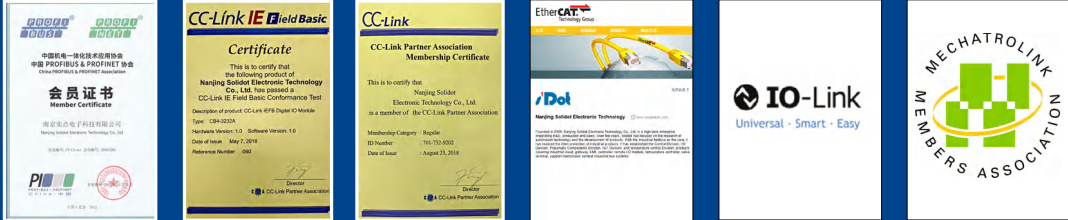
Computer software copyright registration certificates

Association membership certificates

INDUSTRY APPLICATIONS

3C　Lithium　Photovoltaic　Intelligent Manufacturing　Logistics　Automotive　New Energy　Petrochemicals　Power Energy

EtherCAT.　PROFI NET®　PROFI BUS®　EtherNet/IP　IO-Link　Modbus TCP　　CC-Link　CC-Link IE Field Basic　CC-Link IE TSN　MECHATROLINK　DeviceNet　RTEX Realtime Express

Sliced I/O

Innovative channel indicator light design, close to the channel, spring-loaded pluggable terminal, fast wiring, easy maintenance. The highest point density of a single module in the same type of product, saving more space. Various protocol support, high-speed backplane bus, 32 plug-ins, 1024 I/O points, scan period of no more than 1ms, support star topology and distributed clock.

Vertical type I/O

102*72*25mm in size, small space, fast speed, fast wiring, pluggable wiring terminals, compatible with most manufacturers' main stations such as Mitsubishi, Siemens, Omron, simple configuration, IP20 rated protection.

Horizontal type I/O

Only 35mm high, 100M industrial Ethernet port, innovative channel indicator light design, clearly visible channel status, convenient for testing and maintenance. Support for major mainstream controllers. Adopting screw-fixed wiring terminals, stable and fast wiring.

IP67 fieldbus I/O

IP67 fieldbus I/O, supporting various bus protocols. The product size is 225*62*35, and the shell is made of PT-B+GF30% reinforced plastic material, which has excellent mechanical properties; the fully sealed design can be used in harsh working environments. There is a wide variety of signals available, providing a diverse range of options for on-site applications.
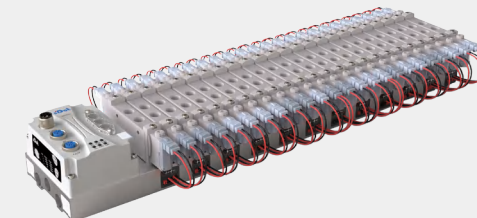
Valve terminal

Independent developed and initial invented in China, strong universality, supporting various bus protocols and mainstream magnetic valves. Offering customized solutions according to magnetic valves' type and quantity. Customized bottom plate, integrated allurminum alloy design product with outstanding appearance.

IO-Link fieldbus I/O

IP67 rated protection, applicable to harsh working environment. Adopting IO-Link v1.1 standard design, supporting various bus protocols, LED status display, channel protection and diagnosis.

sDot 实点科技

INNOVATIVE INTERCONNECTION, INTELLIGENT FUTURE

> DISASSEMBLY DIAGRAM OF SLICED I/O
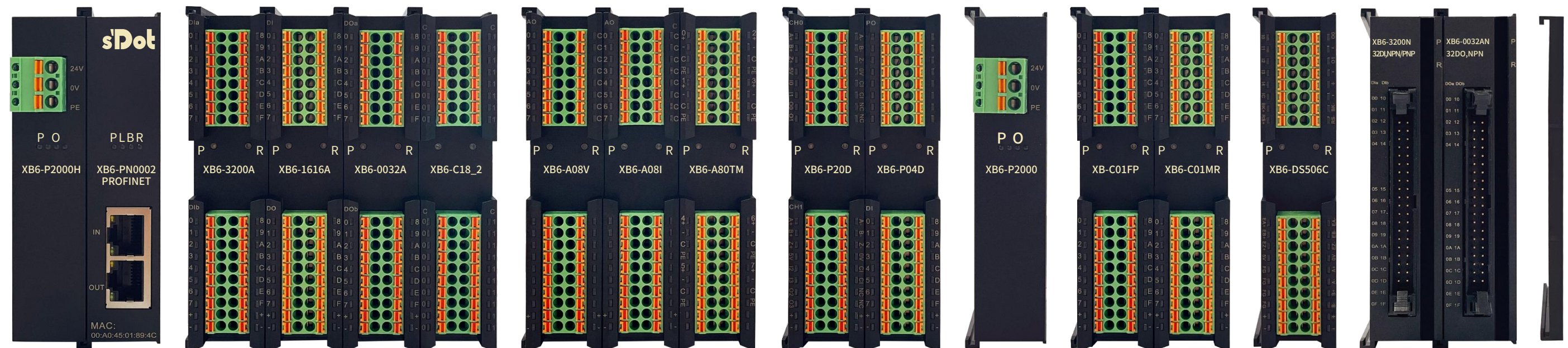
Rich coupler protocols
- PROFINET
- EtherCAT
- EtherNet/IP
- CC-Link
- CC-Link IE Field Basic
- CC-Link IE TSN
- RTEX
- PROFIBUS-DP
- MECHATROLINK-III …

- 32, 16, 8 digital input/output
- 12 channels relay output
- Common terminal expansion module

- 8、4 channels analog input/output, support voltage, current type
- 8、4 channels temperature acquisition, support TD/TC/RTD acquisition

- 4 channels high-speed pulse output, differential
- 2 channels high-speed encoder acquisition, differential

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

- Modbus RTU
- RS485/RS422

- Compact body, integrated with XB6 series remote I/O products
- Support open-loop and closed-loop stepping
- Support HM, PP, PV modes
- Support two-phase hybrid stepper motor

- Small module size, support 32 digital input/output, space saving
- Matching MIL connector cable and terminal block, fast and efficient connection, saving wiring

- X-bus Backplane bus terminal
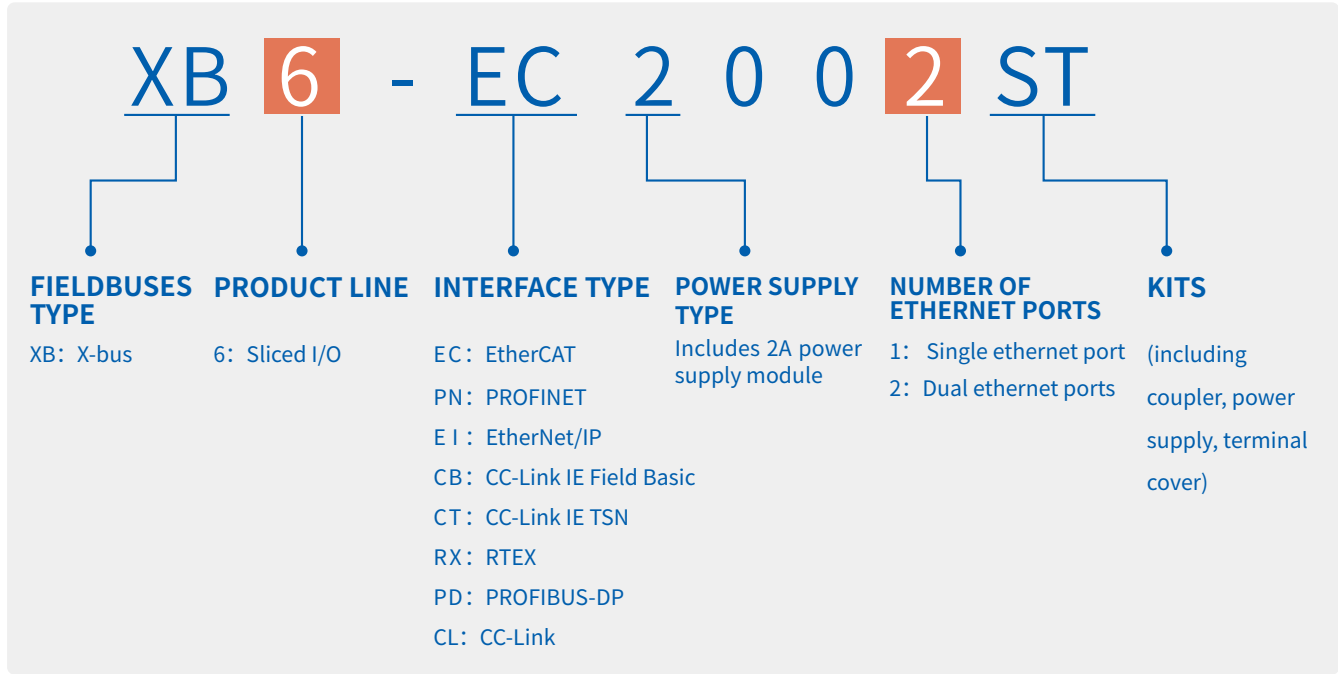
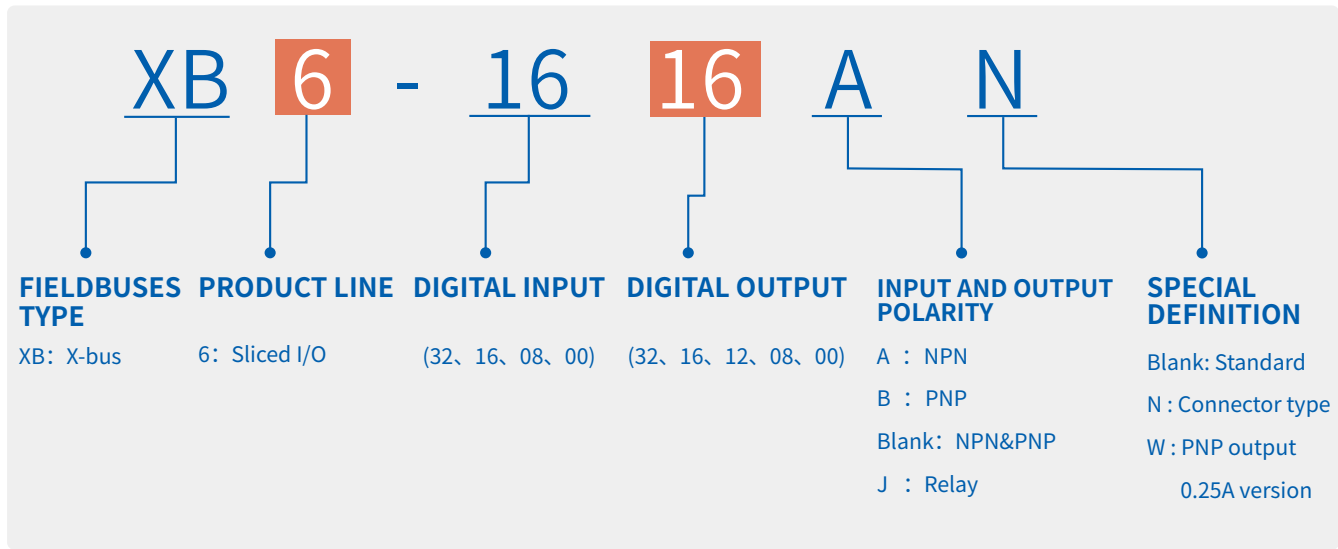| **Power Supply +Coupler** | **Digital Modules** | **Analog Modules** | **Pulse Modules** | **Extended Power Modules** | **Protocol Conversion modules** | **Stepper Drive Modules** | **MIL Connector Modules** | **Terminal Cover Plate** |

SLICED I/O NAMING RULE

COUPLER

XB **6** - EC 2 0 0 **2** ST

FIELDBUSES TYPE

XB: X-bus

PRODUCT LINE

6: Sliced I/O

INTERFACE TYPE

EC: EtherCAT
PN: PROFINET
E I: EtherNet/IP
CB: CC-Link IE Field Basic
CT: CC-Link IE TSN
RX: RTEX
PD: PROFIBUS-DP
CL: CC-Link

POWER SUPPLY TYPE

Includes 2A power supply module

NUMBER OF ETHERNET PORTS

1: Single ethernet port
2: Dual ethernet ports

KITS

(including coupler, power supply, terminal cover)

DIGITAL

XB **6** - 16 **16** A N

FIELDBUSES TYPE

XB: X-bus

PRODUCT LINE

6: Sliced I/O

DIGITAL INPUT

(32、16、08、00)

DIGITAL OUTPUT

(32、16、12、08、00)

INPUT AND OUTPUT POLARITY

A : NPN
B : PNP
Blank: NPN&PNP
J : Relay

SPECIAL DEFINITION

Blank: Standard
N : Connector type
W : PNP output
0.25A version

ANALOG

XB **6** - A 8 **0** V W

FIELDBUSES TYPE

XB: X-bus

PRODUCT LINE

6: Sliced I/O

ANALOG

ANALOG INPUT

(8、4、0)

ANALOG OUTPUT

(8、4、0)

INPUT AND OUTPUT POLARITY

V : Voltage type
I : Current type
TM : Temperature input

SPECIAL DEFINITION

Blank: ±0.1% Precision
W: ±0.3% Precision

SLICED I/O MODELS

DI=digital input, DO= digital output

Coupler		
1	XB6-PN2002ST	PROFINET Coupler kit (with power supply, cover plate)
2	XB6-EC2002ST	EtherCAT Coupler kit (with power supply, cover plate)
3	XB6-EI2002ST	EtherNet/IP Coupler kit (with power supply, cover plate)
4	XB6-CB2002ST	CC-Link IE Field Basic Coupler kit (with power supply, cover plate)
5	XB6-CT2002ST	CC-Link IE TSN Coupler kit (with power supply, cover plate)
6	XB6-RX2002ST	RTEX Coupler kit (with power supply, cover plate)
7	XB6-PD2002ST	PROFIBUS-DP Coupler kit (with power supply, cover plate)
8	XB6-CL2002ST	CC-Link Coupler kit (with power supply, cover plate)

Digital		
9	XB6-3200A	32 DI, NPN, European style terminal
10	XB6-0032A	32 DO, NPN, 0.25A, European style terminal
11	XB6-1616A	16 DI 16DO, NPN, 0.25A, European style terminal
12	XB6-3200B	32 DI, PNP, European style terminal
13	XB6-0032B	32 DO，PNP，O.5A，European style terminal

14	XB6-0032BW	32 DO, PNP, O.25A,European style terminal
15	XB6-1616B	16 DI, 16DO, PNP, O.5A, European style terminal
16	XB6-1616BW	16 DI, 6DO, PNP, O.25A, European style terminal
17	XB6-3200N	32 DI, NPN&PNP, Connector type
18	XB6-0032AN	32 DO, NPN, 0.25A, Connector type
19	XB6-1600A	16 DI, NPN, European style terminal
20	XB6-0016A	16 DO, NPN, 0.25A, European style terminal
21	XB6-1600B	16 DI, PNP,European style terminal
22	XB6-0016B	16 DO, PNP, 0.5A, European style terminal
23	XB6-0016BW	16 DO, PNP, 0.25A, European style terminal
24	XB6-0800A	8 DI, NPN, European style terminal
25	XB6-0008A	8 DO, NPN, 0.25A, European style terminal
26	XB6-0800B	8 DI, PNP, European style terminal
27	XB6-0008B	8 DO, PNP, 0.5A, European style terminal
28	XB6-0008BW	8 DO, PNP, 0.25A, European style terminal
29	XB6-0012J	12 DO, relay, 2A, European style terminal

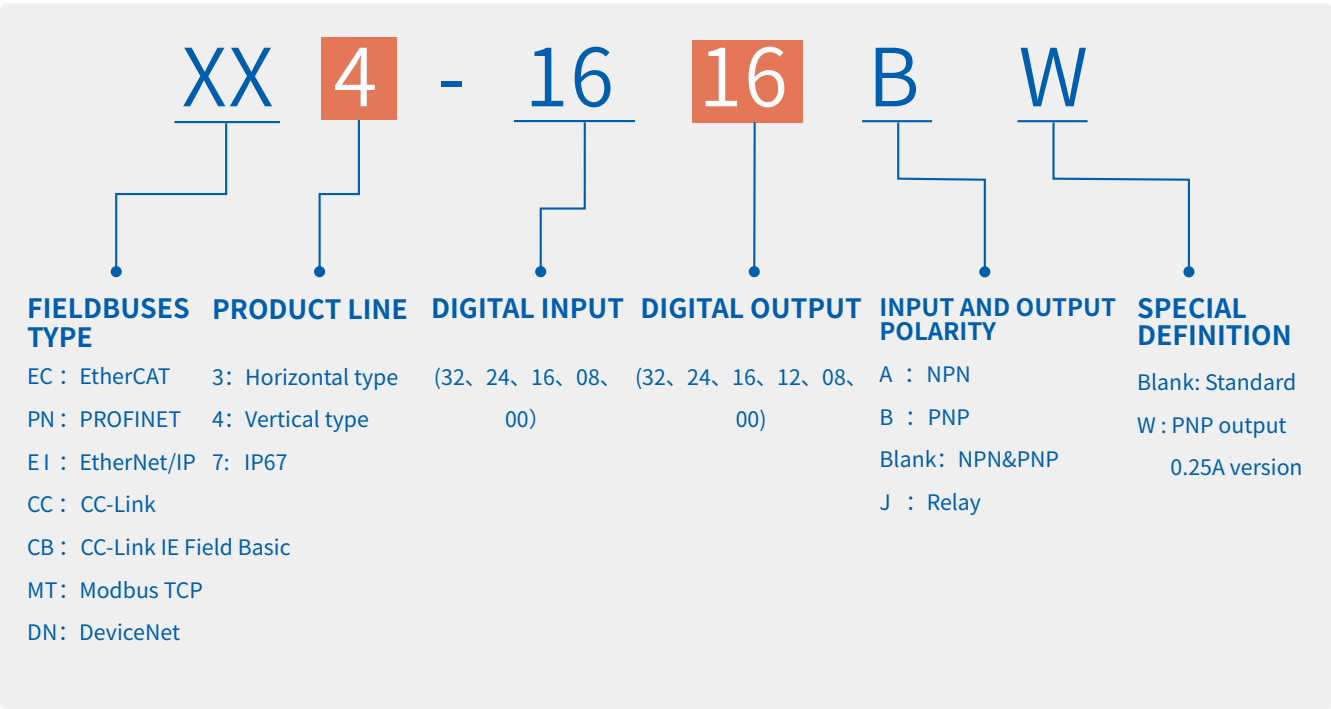| Analog input		
30	XB6-A80V	U, 8 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
31	XB6-A80VW	U, 8 channels analog voltage input,-10~+10V / 0~+10V, ±0.3% accuracy
32	XB6-A40V	U, 4 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
33	XB6-A40VW	U, 4 channels analog voltage input,-10~+10V / 0~+10V, ±0.3% accuracy
34	XB6-A80I	I, 8 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
35	XB6-A80IW	I, 8 channels analog current input, 0~20mA / 4~20mA, ±0.3% accuracy
36	XB6-A40I	I, 4 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
37	XB6-A40IW	I, 4 channels analog current input, 0~20mA / 4~20mA, ±0.3% accuracy
38	XB6-A80TM	8 channels RTD/TC
39	XB6-A40TM	4 channels RTD/TC

Analog output		
40	XB6-A08V	U, 8 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
41	XB6-A08VW	U, 8 channels analog voltage output, -10~+10V / 0~+10V, ±0.3% accuracy
42	XB6-A04V	U, 4 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
43	XB6-A04VW	U, 4 channels analog voltage output, -10~+10V / 0~+10V, ±0.3% accuracy
44	XB6-A08I	I, 8 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
45	XB6-A08IW	I, 8 channels analog current output, 0~20mA/4-20mA, ±0.3% accuracy
46	XB6-A04I	I, 4 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
47	XB6-A04IW	I, 4 channels analog current output, 0~20mA/4-20mA, ±0.3% accuracy

Function Modules		
48	XB6-DS506C	Two-phase hybrid stepper motor driver, single axis
49	XB6-P20D	2 channels pulse input module
50	XB6-P20DS	SSI encoder interface module
51	XB6-P04A	4 channels pulse output module
52	XB6-C01SP	1 channel serial communication module

Other Modules		
53	XB6-P2000	Extended Power Module 2A
54	XX6-C18_2	Sliced I/O Common terminal expansion module
55	TM40-32AE	32-bit terminal block with lights, NPN
56	TM40-32BE	32-position terminal block with light, PNP
57	TM40-1000-1	Terminal block with matching cable 1m
58	TM40-3000-1	Terminal block with matching cable 3m
59	TM40-5000-1	Terminal block with matching cable 5m
60	TM40-1000-2	Terminal block with matching cable 1m (for PNP input)
61	TM40-3000-2	Terminal block with matching cable 3m (for PNP input)
62	TM40-5000-2	Terminal block with matching cable 5m (for PNP input)

INTEGRATED I/O NAMING RULE

DIGITAL

XX 4 - 16 16 B W

FIELDBUSES TYPE
EC： EtherCAT
PN： PROFINET
EI： EtherNet/IP
CC： CC-Link
CB： CC-Link IE Field Basic
MT： Modbus TCP
DN： DeviceNet

PRODUCT LINE
3： Horizontal type
4： Vertical type
7： IP67

DIGITAL INPUT
(32、24、16、08、00)

DIGITAL OUTPUT
(32、24、16、12、08、00)

INPUT AND OUTPUT POLARITY
A ： NPN
B ： PNP
Blank： NPN&PNP
J ： Relay

SPECIAL DEFINITION
Blank: Standard
W : PNP output
0.25A version

ANALOG

XX 4 - A 8 0 V

FIELDBUSES TYPE
EC： EtherCAT
PN： PROFINET
EI： EtherNet/IP
CC： CC-Link
CB： CC-Link IE Field Basic
MT： Modbus TCP
DN： DeviceNet

PRODUCT LINE
3： Horizontal type
4： Vertical type
7： IP67

ANALOG

ANALOG INPUT
(8、4、0)

ANALOG OUTPUT
(8、4、0)

INPUT AND OUTPUT POLARITY
V : Voltage type
I ： Current type
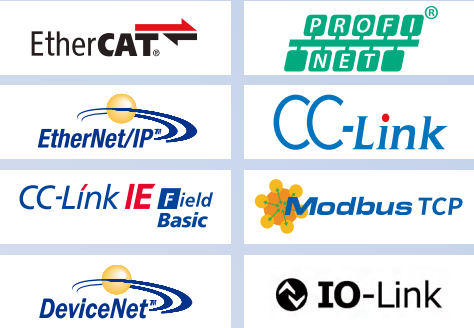
VERTICAL TYPE I/O

❶ **Small size：** Only 102×72×25mm

❷ **Fast：** High-speed ARM + dedicated ASIC

❸ **High level of integration：**
Up to 32 digital points
Up to 8 channels of analog

Easy to maintain: easy to inspect problems, terminal blockscan be pluggable
Convenient to expand： built-in dual Ethernet ports, modules can be cascaded
Complete models： digital, analog, temperature, positioning, counting
Easy to install： 35mm standard DIN rail

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

VERTICAL TYPE I/O MODELS

EtherCAT

EtherCAT (Ethernet for Control Automation Technology) is an open architecture, Ethernet-based fieldbus system whose name is derived from the abbreviation for Control Automation Technology (CAT). EtherCAT was initially developed by Beckhoff, a German company.

Solidot EtherCAT compatible products can perfectly support most EtherCAT master products currently available on the market, including but not limited to the following master products:

BECKHOFF OMRON CODESYS KUKA

PHŒNIX CONTACT TRIO KEYENCE ACS MOTION CONTROL

INOVANCE XINJE Kithara ADVANTECH

SOFT SERVO ADLINK Leading EDGE COMPUTING ADTECH众为兴 ESA

DI=digital input, DO= digital output

	Single-wire digital I/O	
1	EC4-3200A	EtherCAT, Intergrated I/O, 32DI, NPN
2	EC4-2408A	EtherCAT, Intergrated I/O, 24DI, 8DO, NPN, 0.25A
3	EC4-1616A	EtherCAT, Intergrated I/O, 16DI, 16DO, NPN, 0.25A
4	EC4-0824A	EtherCAT, Intergrated I/O, 8DI, 24DO, NPN, 0.25A
5	EC4-0032A	EtherCAT, Intergrated I/O, 32DO, NPN, 0.25A
6	EC4-1600A	EtherCAT, Intergrated I/O, 16DI, NPN
7	EC4-0808A	EtherCAT, Intergrated I/O, 8DI, 8DO, NPN, 0.25A
8	EC4-0016A	EtherCAT, Intergrated I/O, 16DO, NPN, 0.25A
9	EC4-3200B	EtherCAT, Intergrated I/O, 32DI, PNP
10	EC4-2408B	EtherCAT, Intergrated I/O, 24DI, 8DO, PNP, 0.5A
11	EC4-1616B	EtherCAT, Intergrated I/O, 16DI, 16DO, PNP, 0.5A
12	EC4-1616BW	EtherCAT, Intergrated I/O, 16DI, 16DO, PNP, 0.25A
13	EC4-0824B	EtherCAT, Intergrated I/O, 8DI, 24DO, PNP, 0.5A
14	EC4-0032B	EtherCAT, Intergrated I/O, 32DO, PNP, 0.5A
15	EC4-0032BW	EtherCAT, Intergrated I/O, 32DO, PNP, 0.25A
16	EC4-1600B	EtherCAT, Intergrated I/O, 16DI, PNP
17	EC4-0808B	EtherCAT, Intergrated I/O, 8DI, 8DO, PNP, 0.5A
18	EC4-0808BW	EtherCAT, Intergrated I/O, 8DI, 8DO, PNP, 0.25A
19	EC4-0016B	EtherCAT, Intergrated I/O, 16DO, PNP, 0.5A
20	EC4-0016BW	EtherCAT, Intergrated I/O, 16DO, PNP, 0.25A
21	EC4-0012J	EtherCAT, Intergrated I/O, 12DO, Relay, 2A
22	EC4-1612J	EtherCAT, Intergrated I/O, 16DI, 12DO, Relay, 2A

	Analog input	
23	EC4-A40V	EtherCAT, Intergrated I/O, U, 4 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
24	EC4-A80V	EtherCAT, Intergrated I/O, U, 8 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
25	EC4-A40I	EtherCAT, Intergrated I/O, I, 4 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
26	EC4-A80I	EtherCAT, Intergrated I/O, I, 8 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy

	Analog output	
27	EC4-A04V	EtherCAT, Intergrated I/O, U, 4 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
28	EC4-A08V	EtherCAT, Intergrated I/O, U, 8 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
29	EC4-A04I	EtherCAT, Intergrated I/O, I, 4 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
30	EC4-A08I	EtherCAT, Intergrated I/O, I, 8 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy

	Function Modules	
31	EC4-P20D	EtherCAT, Intergrated I/O, 2 channels quadrature encoder interface module
32	EC4S-P04D	EtherCAT, Intergrated I/O, 4 channels pulse output module
33	XX4-C10_4	Integrated public terminal expansion module, supporting 2-write and 3-write

PROFINET

PROFINET was introduced by PROFIBUS International (PI) and is a new generation of automation bus standard based on industrial Ethernet technology. PROFINET provides a complete network solution for the automation communication field, including current hot topics in the automation field such as real-time Ethernet, motion control, distributed automation, fault safety, and network security. As a cross-vendor technology, it is fully compatible with industrial Ethernet and existing field bus technologies such as PROFIBUS.

Solidot has a long history of PROFINET development and its products mainly cover integrated I/O, plug-in I/O, and bus valve island, which are compatible with Siemens S7-1500, S7-1200, S7-200 SMART, and CNC systems and have a wide range of applications in many industries.

DI=digital input, DO= digital output

		Single-wire digital I/O
1	PN4-3200A	PROFINET, Intergrated I/O, 32DI, NPN
2	PN4-2408A	PROFINET, Intergrated I/O, 24DI, 8DO, NPN, 0.25A
3	PN4-1616A	PROFINET, Intergrated I/O, 16DI, 16DO, NPN, 0.25A
4	PN4-0824A	PROFINET, Intergrated I/O, 8DI, 24DO, NPN, 0.25A
5	PN4-0032A	PROFINET, Intergrated I/O, 32DO, NPN
6	PN4-1600A	PROFINET, Intergrated I/O, 16DI, NPN
7	PN4-0808A	PROFINET, Intergrated I/O, 8DI, 8DO, NPN, 0.25A
8	PN4-0016A	PROFINET, Intergrated I/O, 16DO, NPN, 0.25A
9	PN4-3200B	PROFINET, Intergrated I/O, 32DI, PNP
10	PN4-2408B	PROFINET, Intergrated I/O, 24DI, 8DO, PNP, 0.5A
11	PN4-1616B	PROFINET, Intergrated I/O, 16DI, 16DO, PNP, 0.5A
12	PN4-1616BW	PROFINET, Intergrated I/O, 16DI, 16DO, PNP, 0.25A
13	PN4-0824B	PROFINET, Intergrated I/O, 8DI, 24DO, PNP, 0.5A
14	PN4-0032B	PROFINET, Intergrated I/O, 32DO, PNP, 0.5A
15	PN4-0032BW	PROFINET, Intergrated I/O, 32DO, PNP, 0.25A
16	PN4-1600B	PROFINET, Intergrated I/O, 16DI, PNP
17	PN4-0808B	PROFINET, Intergrated I/O, 8DI, 8DO, PNP, 0.5A
18	PN4-0808BW	PROFINET, Intergrated I/O, 8DI, 8DO, PNP, 0.25A
19	PN4-0016B	PROFINET, Intergrated I/O, 16DO, PNP, 0.5A
20	PN4-0016BW	PROFINET, Intergrated I/O, 16DO, PNP, 0.25A
21	PN4-0012J	PROFINET, Intergrated I/O, 12DO, Relay, 2A
22	PN4-1612J	PROFINET, Intergrated I/O, 16DI, 12DO, Relay, 2A

		Analog input
23	PN4-A40V	PROFINET, Intergrated I/O, U, 4 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
24	PN4-A80V	PROFINET, Intergrated I/O, U, 8 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
25	PN4-A40I	PROFINET, Intergrated I/O, I, 4 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
26	PN4-A80I	PROFINET, Intergrated I/O, I, 8 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy

		Analog output
27	PN4-A04V	PROFINET, Intergrated I/O, U, 4 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
28	PN4-A08V	PROFINET, Intergrated I/O, U, 8 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
29	PN4-A04I	PROFINET, Intergrated I/O, I, 4 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
30	PN4-A08I	PROFINET, Intergrated I/O, I, 8 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy

		Function Modules
31	PN4-GW2MR	PROFINET to 232/485/422 Modbus RTU protocol
32	PN4-GW2FP	232/485/422 PROFINET to 232/485/422 Free Port Protocol
33	XX4-C10_4	Integrated public terminal expansion module, supporting 2-write and 3-write

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 and it mainly adapts the following master products:

Rockwell Automation　　Schneider Electric　　KEYENCE　　OMRON

DI=digital input, DO= digital output

		Single-wire digital I/O
1	EI4-3200A	Ethernet/IP, Intergrated I/O, 32DI, NPN
2	EI4-2408A	Ethernet/IP, Intergrated I/O, 24DI, 8DO, NPN, 0.25A
3	EI4-1616A	Ethernet/IP, Intergrated I/O, 16DI, 16DO, NPN, 0.25A
4	EI4-0824A	Ethernet/IP, Intergrated I/O, 8DI, 24DO, NPN, 0.25A
5	EI4-0032A	Ethernet/IP, Intergrated I/O, 32DO, NPN
6	EI4-1600A	Ethernet/IP, Intergrated I/O, 16DI, NPN
7	EI4-0808A	Ethernet/IP, Intergrated I/O, 8DI, 8DO, NPN, 0.25A
8	EI4-0016A	Ethernet/IP, Intergrated I/O, 16DO, NPN, 0.25A
9	EI4-3200B	Ethernet/IP, Intergrated I/O, 32DI, PNP
10	EI4-2408B	Ethernet/IP, Intergrated I/O, 24DI, 8DO, PNP, 0.5A
11	EI4-1616B	Ethernet/IP, Intergrated I/O, 16DI, 16DO, PNP, 0.5A
12	EI4-1616BW	Ethernet/IP, Intergrated I/O, 16DI, 16DO, PNP, 0.25A
13	EI4-0824B	Ethernet/IP, Intergrated I/O, 8DI, 24DO, PNP, 0.5A
14	EI4-0032B	Ethernet/IP, Intergrated I/O, 32DO, PNP, 0.5A
15	EI4-0032BW	Ethernet/IP, Intergrated I/O, 32DO, PNP, 0.25A
16	EI4-1600B	Ethernet/IP, Intergrated I/O, 16DI, PNP
17	EI4-0808B	Ethernet/IP, Intergrated I/O, 8DI, 8DO, PNP, 0.5A
18	EI4-0808BW	Ethernet/IP, Intergrated I/O, 8DI, 8DO, PNP, 0.25A
19	EI4-0016B	Ethernet/IP, Intergrated I/O, 16DO, PNP, 0.5A
20	EI4-0016BW	Ethernet/IP, Intergrated I/O, 16DO, PNP, 0.25A
21	EI4-0012J	Ethernet/IP, Intergrated I/O, 12DO, Relay, 2A
22	EI4-1612J	Ethernet/IP, Intergrated I/O, 16DI, 12DO, Relay, 2A

		Analog input
23	EI4-A40V	Ethernet/IP, Intergrated I/O, U, 4 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
24	EI4-A80V	Ethernet/IP, Intergrated I/O, U, 8 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
25	EI4-A40I	Ethernet/IP, Intergrated I/O, I, 4 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
26	EI4-A80I	Ethernet/IP, Intergrated I/O, I, 8 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy

		Analog output
27	EI4-A04V	Ethernet/IP, Intergrated I/O, U, 4 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
28	EI4-A08V	Ethernet/IP, Intergrated I/O, U, 8 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
29	EI4-A04I	Ethernet/IP, Intergrated I/O, I, 4 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
30	EI4-A08I	Ethernet/IP, Intergrated I/O, I, 8 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy

31	XX4-C10_4	Integrated public terminal expansion module, supporting 2-write and 3-write

CC-Link

CC-Link is an open field bus with large data capacity and selectable communication speeds. It is a composite, open, and adaptive network system that can adapt to different ranges from higher management networks to lower sensor networks. Led by Mitsubishi, common CC-Link masters currently include Mitsubishi FX5U, L, Q, IQ-R series PLCs. Solidot has a long history of CC-Link development and its products mainly cover integrated I/O, sliced I/O, and bus valve terminal.

DI=digital input, DO= digital output

Single-wire digital I/O		
1	CC4-3200A	CC-Link, Intergrated I/O, 32DI, NPN
2	CC4-1616A	CC-Link, Intergrated I/O, 16DI, 16DO, NPN, 0.25A
3	CC4-0032A	CC-Link, Intergrated I/O, 32DO, NPN, 0.25A
4	CC4-1600A	CC-Link, Intergrated I/O, 16DI, NPN
5	CC4-0808A	CC-Link, Intergrated I/O, 8DI, 8DO, NPN, 0.25A
6	CC4-0016A	CC-Link, Intergrated I/O, 16DO, NPN, 0.25A

Analog input		
7	CC4-A40V	CC-Link, Intergrated I/O, U, 4 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
8	CC4-A80V	CC-Link, Intergrated I/O, U, 8 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
9	CC4-A40I	CC-Link, Intergrated I/O, I, 4 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
10	CC4-A80I	CC-Link, Intergrated I/O, I, 8 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy

Analog output		
11	CC4-A04V	CC-Link, Intergrated I/O, U, 4 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
12	CC4-A08V	CC-Link, Intergrated I/O, U, 8 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
13	CC4-A04I	CC-Link, Intergrated I/O, I, 4 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
14	CC4-A08I	CC-Link, Intergrated I/O, I, 8 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy

15	XX4-C10_4	Integrated public terminal expansion module, supporting 2-write and 3-write

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-R PLCs.

DI=digital input, DO= digital output

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, 0.25A
3	CB4-1616A	CC-Link IE Field Basic, Integrated I/O, 16DI, 16DO, NPN, 0.25A
4	CB4-0824A	CC-Link IE Field Basic, Integrated I/O, 8DI, 24DO, NPN, 0.25A
5	CB4-0032A	CC-Link IE Field Basic, Integrated I/O, 32DO, NPN, 0.25A
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, 0.25A
8	CB4-0016A	CC-Link IE Field Basic, Integrated I/O, 16DO, NPN, 0.25A
9	CB4-0012J	CC-Link IE Field Basic, Integrated I/O, 12DO, Relay, 2A
10	CB4-1612J	CC-Link IE Field Basic, Integrated I/O, 16DI, 12DO, Relay, 2A

Analog input		
11	CB4-A40V	CC-Link IE Field Basic, Integrated I/O, U, 4 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
12	CB4-A80V	CC-Link IE Field Basic, Integrated I/O, U, 8 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
13	CB4-A40I	CC-Link IE Field Basic, Integrated I/O, I, 4 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
14	CB4-A80I	CC-Link IE Field Basic, Integrated I/O, I, 8 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy

Analog output		
15	CB4-A04V	CC-Link IE Field Basic, Integrated I/O, U, 4 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
16	CB4-A08V	CC-Link IE Field Basic, Integrated I/O, U, 8 channels analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
17	CB4-A04I	CC-Link IE Field Basic, Integrated I/O, I, 4 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
18	CB4-A08I	CC-Link IE Field Basic, Integrated I/O, I, channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy

>> Modbus TCP

Modbus is a serial communication protocol published by Modicon (now Schneider Electric) in 1979 for communication with programmable logic controllers (PLCs). Modbus has become a de facto standard communication protocol in the industrial field and is now a common way to connect industrial electronic devices. There are versions of the Modbus protocol for serial ports, Ethernet, and other networks supporting Internet protocols. Solidotl Modbus TCP products have built-in Ethernet switches for easier wiring. They are usually used with PLCs from Labview, Siemens, Beckhoff, and Schneider Electric.

DI=digital input, DO= digital output

		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, 0.25A
3	MT4-0032A	Modbus TCP, Integrated I/O, 32DO, NPN, 0.25A
4	MT4-1600A	Modbus TCP, Integrated I/O, 16DI, NPN
5	MT4-0808A	Modbus TCP, Integrated I/O, 8DI, 8DO, NPN, 0.25A
6	MT4-0016A	Modbus TCP, Integrated I/O, 16DO, NPN, 0.25A
7	MT4-1616B	Modbus TCP, Integrated I/O, 16DI, 16DO, PNP, 0.5A
8	MT4-1616BW	Modbus TCP, Integrated I/O, 16DI, 16DO, PNP, 0.25A
9	MT4-A40V	Modbus TCP, Integrated I/O, U, 4 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
10	MT4-A80V	Modbus TCP, Integrated I/O, U, 8 channels analog voltage input,-10~+10V / 0~+10V, ±0.1% accuracy
11	MT4-A40I	Modbus TCP, Integrated I/O, I, 4 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
12	MT4-A80I	Modbus TCP, Integrated I/O, I, 8 channels analog current input, 0~20mA / 4~20mA, ±0.1% accuracy
13	MT4-A04V	Modbus TCP, Integrated I/O, U, 4 channes analog voltage output, -10~+10V / 0~+10V, ±0.1% accuracy
14	MT4-A08V	Modbus TCP, Integrated I/O, I, 8 channels analog voltage output, 0~20mA/4-20mA, ±0.1% accuracy
15	MT4-A04I	Modbus TCP, Integrated I/O, I, 4 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
16	MT4-A08I	Modbus TCP, Integrated I/O, I, 8 channels analog current output, 0~20mA/4-20mA, ±0.1% accuracy
17	XX4-C10_4	Integrated public terminal expansion module, supporting 2-write and 3-write

>> 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 DeviceNet products include integrated I/O, which is used with Omron CJ series PLC and ABB robots.

DI=digital input, DO= digital output

		Single-wire digital I/O
1	DN4-3200A	DeviceNet, Integrated I/O, 32DI, NPN
2	DN4-1616A	DeviceNet, Integrated I/O, 16DI, 16DO, NPN, 0.25A,
3	DN4-0032A	DeviceNet, Integrated I/O, 32DO, NPN, 0.25A
4	DN4-1600A	DeviceNet, Integrated I/O, 16DI, NPN
5	DN4-0808A	DeviceNet, Integrated I/O, 8DI, 8DO, NPN, 0.25A
6	DN4-0016A	DeviceNet, Integrated I/O, 16DO, NPN, 0.25A
7	DN4-1616BW	DeviceNet, Integrated I/O, 16DI, 16DO, PNP, 0.25A
8	XX4-C10_4	Integrated public terminal expansion module

▶ HORIZONTAL TYPE I/O

❶ Digital input signals are compatible with NPN & PNP

❷ The height is only 35mm

❸ Innovative channel indicator light design, close to the channel, the channel status is clear at a glance, convenient for detection and maintenance

100 Mbps industrial Ethernet port. Simple configuration and support for major controllers. DIN 35 mm standard rail mounting, using screw-fixed wiring terminal, stable and fast wiring.

▶ HORIZONTAL TYPE I/O MODELS

DI=digital input, DO= digital output

	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	EC3-3200	EtherCAT, Integrated I/O, 32DI, NPN & PNP compatible, Screw terminal
12	EC3-1616A	EtherCAT, Integrated I/O, 16DI, 16DO, NPN, 0.5A, Screw terminal
13	EC3-1616B	EtherCAT, Integrated I/O, 16DI, 16DO, PNP, 0.5A, Screw terminal
14	EC3-0032A	EtherCAT, Integrated I/O, 32DO, NPN, 0.5A, Screw terminal
15	EC3-0032B	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
21	CB3-3200	CC-Link IE Field Basic, Integrated I/O,32DI, NPN & PNP compatible, Screw terminal
22	CB3-1616A	CC-Link IE Field Basic, Integrated I/O, 16DI, 16DO, NPN, 0.5A, Screw terminal
23	CB3-1616B	CC-Link IE Field Basic, Integrated I/O, 16DI, 16DO, PNP, 0.5A, Screw terminal
24	CB3-0032A	CC-Link IE Field Basic, Integrated I/O, 32DO, NPN, 0.5A, Screw terminal
25	CB3-0032B	CC-Link IE Field Basic, Integrated I/O, 32DO, PNP, 0.5A, Screw terminal

IP67 FIELDBUS I/O

1. The shell is made of PBT+GF30% reinforced plastic material, with excellent mechanical properties and good electrical insulation
2. Power supply interface adopts M12-L code, maximum over-current 16A
3. Wide range of I/O types, covering various signal types
4. Universal I/O and bus interface, no need to order cables, high compatibility
5. Diverse indicator function design, module status is clear at a glance
6. A firmware upgrade interface is reserved, making product upgrades more convenient

IP67 I/O module, supporting various bus protocols. The product size is 225*62*35, and the shell is made of PTB+GF30% reinforced plastic material, which has excellent mechanical properties; the fully sealed design can be used in harsh working environments. There is a wide variety of signals available, providing a diverse range of options for on-site applications.

IP67 FIELDBUS I/O MODELS

DI=digital input, DO= digital output

Single-wire digital I/O	
1	EC7-1600A	EtherCAT, Integrated I/O, 16DI, NPN
2	EC7-1600B	EtherCAT, Integrated I/O, 16DI, PNP
3	EC7-0016A	EtherCAT, Integrated I/O, 16DO, NPN
4	EC7-0016B	EtherCAT, Integrated I/O, 16DO, PNP
5	EC7-0808A	EtherCAT, Integrated I/O, 8DI, 8DO, NPN, 0.5A
6	EC7-0808B	EtherCAT, Integrated I/O, 8DI, 8DO, PNP, 0.5A
7	CC7-1600A	CC-Link, Integrated I/O, 16DI, NPN
8	CC7-1600B	CC-Link, Integrated I/O, 16DI, PNP
9	CC7-0016A	CC-Link, Integrated I/O, 16DO, NPN, 0.5A
10	CC7-0016B	CC-Link, Integrated I/O, 16DO, PNP, 0.5A
11	CC7-0808A	CC-Link, Integrated I/O, 8DI, 8DO, NPN, 0.5A
12	CC7-0808B	CC-Link, Integrated I/O, 8DI, 8DO, PNP, 0.5A
13	PN7-1600A	PROFINET, Integrated I/O, 16DI, NPN
14	PN7-1600B	PROFINET, Integrated I/O, 16DI, PNP
15	PN7-0016A	PROFINET, Integrated I/O, 16DO, NPN, 0.5A
16	PN7-0016B	PROFINET, Integrated I/O, 16DO, PNP, 0.5A
17	PN7-0808A	PROFINET, Integrated I/O, 8DI, 8DO, NPN, 0.5A
18	PN7-0808B	PROFINET, Integrated I/O, 8DI, 8DO, PNP, 0.5A

> VALVE TERMINAL

1. Supports multiple fieldbuses
2. Easy access to major manufacturers
3. Save wiring, only one communication cable is needed
4. Support mainstream solenoid valve models
5. Maximumly support 24 bits double electronic control and 48 bits single electronic control
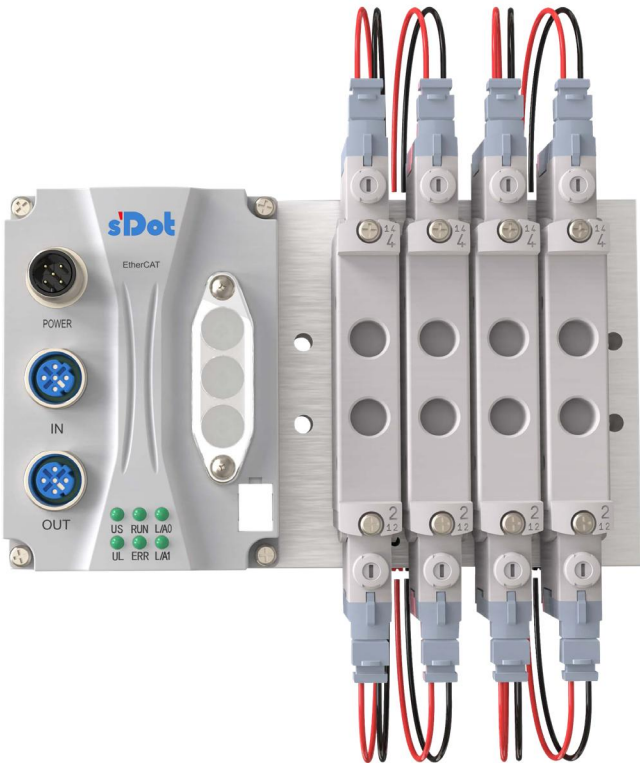
The valve terminal, which is the first of its kind in China and has strong universality, was independently developed and has a more compact structure and greater flexibility in application.

It can be customized according to the type and quantity of the customer's required solenoid valves. Support PROFINET, EtherCAT, EtherNet/IP, CC-Link IE Field Basic and other bus protocols.

The conventional collecting plate can be used, and input and output modules can be freely expanded to achieve closed-loop control of the solenoid valve.

Customized base plate, integrated full aluminum alloy design, outstanding appearance.

> SLICED VALVE TERMINAL MODELS
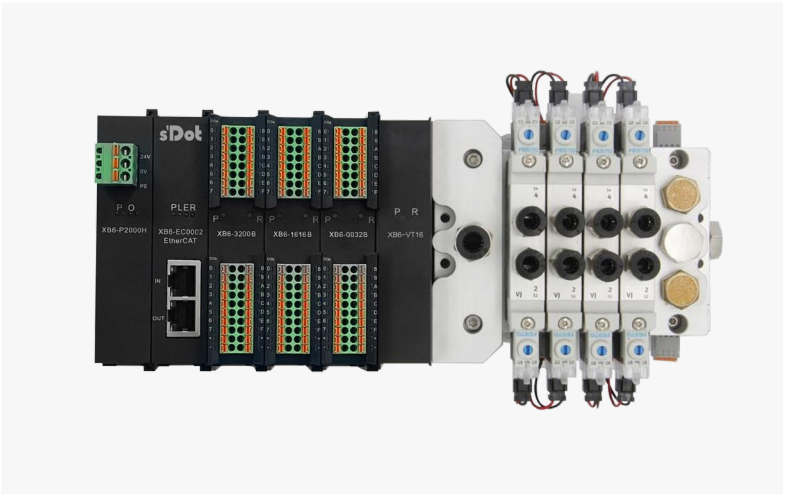
Sliced Valve Terminal

Features.
It can be used in conjunction with Solidot XB6 series sliced I/O mixing. The structure is more compact and the application is more flexible.

XB6 - (VUVG-L14) - 16 - G - N
①　　　②　　　③　④　⑤

Code ① : Used fieldbuses protocol

Code	Protocol
XB6	X-bus

Code ②: The specific model of the solenoid valve (rated voltage DC24V, and the wire lead-out method is selected as the wire-out type). If single or double electric control valve exists at the same time, only single electric control valve will be filled in. This valve island is adapted to the following series of solenoid valves.

Brands	Series	Brands	Series
FESTO	VUVG -L10/LK10	AIRTAC	4V100M
	VUVG -L14/LK14		4V200M
SMC	SY3 □ 20		7V0500M
	SY5 □ 20		7V100M
			7V200M
	SY7 □ 20	CKD	4GD1
			4GD2

Code ③: All solenoid valve bits, 04-16 (single electric control supports up to 16 bits, dual electric control supports up to 16 bits).

Code ④: Inlet and outlet threads of the manifold (the default type is the same as the type of solenoid valve teeth)

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

Code ⑤: Provide gaskets and screws for solenoid valve installation (By default, the customer provides their own solenoid valveown solenoid valve)

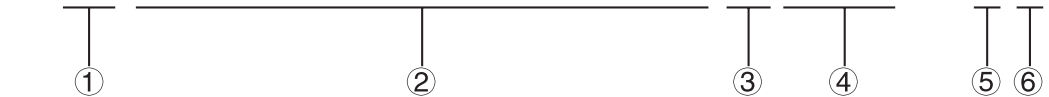| Customer's own	Need our company to provide
Y	N

▶ INTEGRATED VALVE TERMINAL MODELS

C2

Features:
Custom base plate, ntegrated full aluminum alloy design, more beautiful appearance, 24-point single output, using M12 aviation connector.

C2-EC-(VUVG-L14-B52-T-G18-1H2L-W1)-12-A0B12-PL-G-N

① ② ③ ④ ⑤ ⑥

Code ① : Used fieldbuses protocol

Codes	Protocol
EC	EtherCAT

Code ② : specific model of solenoid valve (rated voltage DC24V, choose wire lead-out method for socket type). If single and double electric control valves exist at the same time, only single electric control valve will be filled in. This valve terminal is adapted to the following series of solenoid valves.

Brands	Series	Brands	Series
FESTO	VUVG -L10/LK10	AIRTAC	4V100M
	VUVG -L14/LK14		4V200M
SMC	SY3 □ 20		7V0500M
	SY5 □ 20		7V100M
	SY7 □ 20		7V200M
		CKD	4GD1
			4GD2

Similar in installation size to the aforementioned solenoid valve, can also be customized.
Code ③: All solenoid bits, 04-24 (single electric control supports up to 24 bits, dual electric control supports up to 12 bits).
Code ④: The number of single / double electronically controlled solenoid valves (need to meet A + 2B ≤ 24)

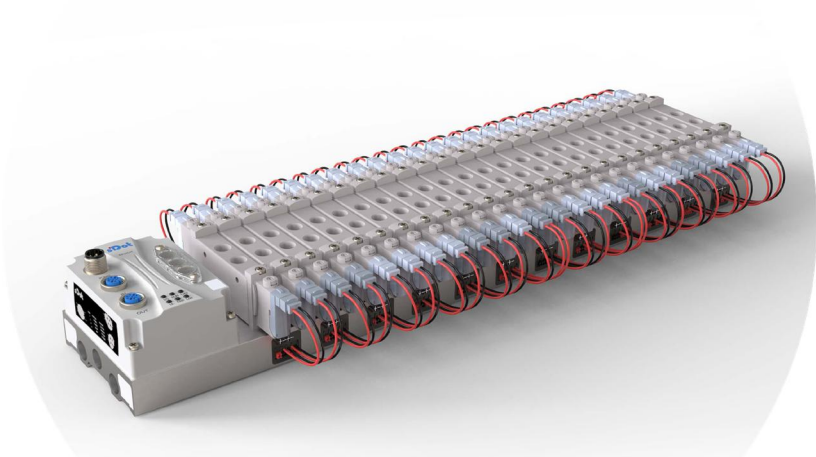| A (single electric control)	B (dual electric control)
0-24	0-12

Code ⑤: Inlet and outlet threads of the manifold (the default type is the same as the type of solenoid valve teeth)

Codes	G	R	N	M
Thread	G Thread	RC Thread	NPT Thread	Metric thread

Code ⑥: Provide gaskets and screws for solenoid valve installation (By default, the customer provides their own solenoid valveown solenoid valve)

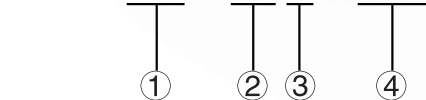| Customer's own	Need our company to provide
Y	N

● *New product launch*

C2S

Features:
Support multiple protocols, Compatible with widely installed electromagnetic valves in the market, easy wiring, support up to 24 bits dual electronic control and 48 bits single electronic control.

C2S - EC - 24 B - F01

① ② ③ ④

Code ①: Used fieldbus protocol

Codes	EC	PN	EI	OO
Protocol	EtherCAT	PROFINET	EtherNet/IP	Multi-pin plug

Code ②: Cylinder manifold bits

04	08	12	16	20	24

Code ③: Number of single / double control electromagnetic valves.

A(Single electronic control, in development)
B(Double electronic control, compatible with single electronic control)

Code ④: Electromagnetic valve model (rated voltage DC24V, socket type wiring) is suitable for the following series of electromagnetic valves.

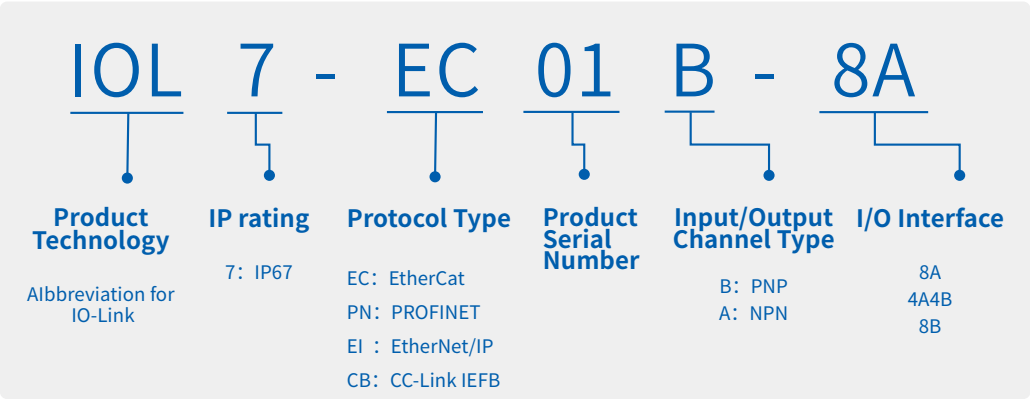| Brands	serial number	Series		Brands	serial number	Series	
FESTO	F01	VUVG-LK10	VUVG-L10	AIRTAC	A01	4V1	
	F02	VUVG-LK14	VUVG-L14		A02	4V2	
SMC	S01	SY3			A04	7V0	
	S02	SY5			A05	7V1	
	S03	SY7			A06	7V2	
CKD	C01	4GD1	4RD1		A07	5V1	
	C02	4GD2	4RD2		A08	5V2	
	C03	4GD3	4RD3				

▶ IO-Link Fieldbus I/O

≫ IO-Link master station

① IP67 rated protection

② Adopting IO-Link v1.1 standard design

③ Varieties of I/O, supporting various bus protocols

④ Interface types are Class-A and Class-B available

⑤ Connected to all kinds of IO-Link sub-station and standard switching value signals

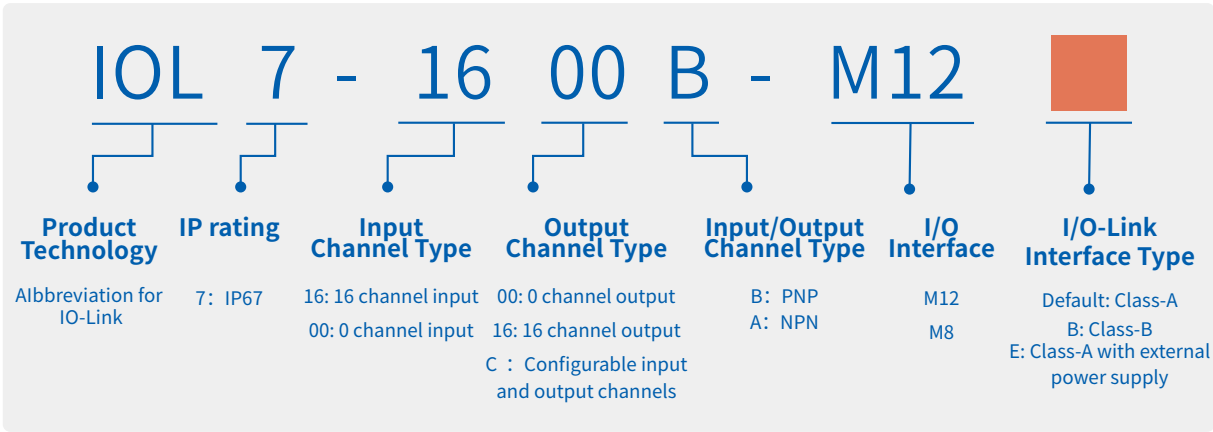⑥ LED status display, channel protection and diagnosis

≫ NAMING RULE

IOL　7　-　EC　01　B　-　8A

Product Technology	IP rating	Protocol Type	Product Serial Number	Input/Output Channel Type	I/O Interface
Albbreviation for IO-Link	7：IP67	EC：EtherCat PN：PROFINET EI ：EtherNet/IP CB：CC-Link IEFB		B：PNP A：NPN	8A 4A4B 8B

≫ MODELS

Single-wire digital I/O		
1	IOL7-EC01B-8A	EtherCat 8xClass-A Port IO-Link Master station
2	IOL7-EC01B-4A4B	EtherCat 4xClass-A Port, 4xClass-B Port IO-Link Master station
3	IOL7-EC01B-8B	EtherCat 8xClass-B Port, IO-Link Master station
4	IOL7-PN01B-8A	PROFINET 8xClass-A Port IO-Link Master station
5	IOL7-PN01B-4A4B	PROFINET 4xClass-A Port, 4xClass-B Port IO-Link Master station
6	IOL7-PN01B-8B	PROFINET 8xClass-B Port IO-Link Master station
7	IOL7-EI01B-8A	EtherNet/IP 8xClass-A Port IO-Link Master station
8	IOL7-EI01B-4A4B	EtherNet/IP 4xClass-A Port, 4xClass-B Port IO-Link Master station
9	IOL7-EI01B-8B	EtherNet/IP 8xClass-B Port IO-Link Master station

≫ IO-Link sub-station

① IP67 rated protection

② Simple and fast wiring, realizing power supply and data transmission

③ Adopting IO-Link v1.1 standard design

④ Connected to all kinds of IO-Link standard main station

⑤ LED status display, channel protection and diagnosis

≫ NAMING RULE

IOL　7　-　16　00　B　-　M12

Product Technology	IP rating	Input Channel Type	Output Channel Type	Input/Output Channel Type	I/O Interface	I/O-Link Interface Type
Albbreviation for IO-Link	7：IP67	16: 16 channel input 00: 0 channel input	00: 0 channel output 16: 16 channel output C ：Configurable input and output channels	B：PNP A：NPN	M12 M8	Default: Class-A B: Class-B E: Class-A with external power supply

≫ MODELS

Single-wire digital I/O		
1	IOL7-1600B-M12	16 Channels Digital Input IO-Link HUB, PNP
2	IOL7-0016B-M12	16 Channels Digital Output IO-Link HUB, PNP
3	IOL7-16CB-M12	IO-Link HUB that can be configured with a maximum of 16 channels for input or output, PNP

1 Power module parameters

Parameter Name	Technical Specification
Rated supply voltage	24V DC (18V…36V)
Output current	2A
Protection measures	polarity protection, short-cricuit protection
External connection method	Spring-type terminal
Physical dimensions	XB6-P2000H：106×61×22.5 mm XB6-P2000：106×73×25.7mm
Weight	About 110g
Mounting method	DIN 35mm rail
Altitude	Below 2000m (Reference sea level operating altitude)
IP rating	IP20
Operating environment	Avoid dust, oil mist and corrosive gases
Operating temperature	-10 ~ +60℃
Operating humidity	95 %RH
Storage temperature	-20℃ ~+75℃
Storage humidity	<95%，Non-condensing

2 Network interface parameters

Bus protocol	EtherCAT	EtherNet/IP	PROFINET	Modbus TCP	CC-Link IE Field Basic	CC-Link									DeviceNet
Number of Slave Stations	Depends on the number of slaves supported by the master					Remote I/O stations: up to 64 stations Remote device stations: up to 42 stations									Maximum 64 stations
Data transmission medium	Ethernet/EtherCAT CAT5 cable					CC-Link dedicated cable (3-core shielded stranded wire)									DeviceNet-specific cables
Transmission rate	100Mb/s					10Mbps / 5Mbps / 2.5Mbps / 625kbps / 156kbps									500kbps / 250kbps / 156kbps
Transmission distance	≤ 100m (station-to-station distance)					10 Mbps	5 Mbps	2.5 Mbps	625 kbps	156 kbps	500 kbps	250 kbps	156 kbps		
						≤ 100m	≤ 160m	≤ 400m	≤ 900m	≤ 1200m	≤ 100m	≤ 250m	≤ 500m		
Bus Interface	XX7 series：2xM12-D,4pin XX3, XX4, XX6 series：2×RJ45					XX3 series: bullet type terminal , 4P XX4 series: bullet type terminal , 7P XX7 series: 2xM12-D,4pin									Spring-loaded terminal block, 7P
Configuration mode	Configure on the master station software														
Rated supply voltage	24V DC (18V…36V)														
Power consumption	XX3 series: max. 3.0W, 125mA XX4 series: max. 3.0W, 125mA XX6 series: max. 2.7W, 540mA XX7 series: max. 1.2W, 50mA														
Power contacts	IP20：Max 24V DC/10A IP67：Max 24V DC/16A														
Power supply protection measures	polarity protection, short-cricuit protection														
Physical dimensions	XX3 series：100×96×32mm XX4 series：102×72×25mm XX6 series：106×61×22.5mm XX7 series：225×62×35mm														
Weight	XX3 series: about 170g XX4 series: about 140g XX6 series: about 80g														
Mounting method	DIN 35mm rail														
Altitude	Below 2000m (Reference sea level operating altitude)														
IP rating	XX3、XX4、XX6 series：IP20 XX7 series：IP67														
Operating environment	Avoid dust, oil mist and corrosive gases														
Operating temperature	IP20：-10 ~ +60℃ IP67：-25~70° C														
Operating humidity	95 %RH														
Storage temperature	-20℃ ~+75℃														
Storage humidity	<95%，Non-condensing														

3 Digital input parameters

Parameter Name	Technical Specification
Number of channels	32 channels / 16 channels / 8 channels
Signal Type	NPN (sink)/ PNP (source)
Rated supply voltage	24V DC (18V...36V)
Input filtering	Default 3ms (1ms, 2ms, 3ms can be set)
ON Voltage/ON Current	NPN：9V/2.7mA PNP：15V/2.8mA
OFF Voltage/OFF Current	NPN：11V/2.3mA PNP：5V/0.9mA
Input Response Time	ON → OFF　≤ 73us OFF → ON　≤ 8us
Input Impedance	5.57kΩ
Isolation withstand voltage	500V AC
Isolation method	Optocoupler isolation
I/O external connection method	IP20: pop-up terminal block, MIL connector, screw type terminal IP67: M12-A, 5pin
Common terminal method	8 points / 16 points, maximum current 8A per common terminal (depending on the specific model)
Channel protection	Optocoupler
Physical dimensions	XX3 series：100×96×32mm　XX4 series：102×72×25mm XX6 series：106×73×25.7mm　XX7 series：225×62×35mm
Weight	XX3 series：about 170g　XX4 series：about 140g XX6 series：about 110g
Mounting method	DIN 35mm rail
Altitude	Below 2000m (Reference sea level operating altitude)
IP rating	XX3、XX4、XX6 series：IP20　XX7 series：IP67
Operating environment	Avoid dust, oil mist and corrosive gases
Operating temperature	IP20：-10 ~ +60℃　IP67：-25~70° C
Operating humidity	95 %RH
Storage temperature	-20℃ ~+75℃
Storage humidity	<95%，Non-condensing

4 Transistor output parameters

Parameter Name	Technical Specifications
Number of channels	32 channels / 16 channels / 8 channels
Signal Type	NPN (sink)/ PNP (source)
Rated supply voltage	24V DC (18V...36V)
Single-channel load current	A type、BW type: Max.0.25A　B type: Max.0.5A
OFF-state leakage current	A type:4uA BW type:6uA　B type:6uA
Residual Voltage	A type:0.4V BW type:0.2V　B type:0.2V
Output response time	ON → OFF　≤ 191us OFF → ON　≤ 40us
Isolation method	Optocoupler isolation
Isolation withstand voltage	500V DC
Load Type	Resistive load, inductive load, lamp load
I/O external connection method	IP20: pop-up terminal block, MIL connector, screw type terminal IP67: M12-A, 5pin
Common terminal method	8 points / 16 points a common terminal, each common terminal maximum current 2A/4A/8A (depending on the specific model)
Channel protection	Overcurrent, short-circuit protection
Physical dimensions	XX3 series：100×96×32mm　XX4 series：102×72×25mm XX6 series：106×73×25.7mm　XX7 series：225×62×35mm
Weight	XX3 series：about 170g　XX4 series：about 140g　XX6 series：about 110g
Mounting method	DIN 35mm rail
Altitude	Below 2000m (Reference sea level operating altitude)
IP rating	XX3、XX4、XX6 series：IP20　XX7 series：P67
Operating environment	Avoid dust, oil mist and corrosive gases
Operating temperature	95 %RH
Storage temperature	-20℃ ~+75℃
Storage humidity	<95%，Non-condensing

5 Relay output parameters

Parameter Name	Technical Specifications	
Number of channels	12 channels	
Rated supply voltage	24V DC (18V...36V)	
Rated switch voltage	24V DC	
Rated switching current	2A/1 point; 8A/1 common terminal	
Output response time	ON → OFF	≤ 10ms
	OFF → ON	≤ 5ms
Max. switching frequency	50HZ	
Relay life	More than two million times	
Isolation withstand voltage	500V AC	
Maximum Surge Voltage	6kV	
Load Type	Resistive load, lamp load, inductive load	
I/O external connection method	XX4、XX6 series：Slug type terminal	
Common terminal method	8 point 1 public end	
Physical dimensions	XX4 series：102×72×25mm XX6 series：106×73×25.7mm	
Weight	XX4 series：about 140g XX6 series：about 110g	
Mounting method	DIN 35mm rail	
Altitude	Below 2000m (Reference sea level operating altitude)	
IP rating	XX4、XX6 series：IP20	
Operating environment	Avoid dust, oil mist and corrosive gases	
Operating temperature	-10 ~ +60℃	
Operating humidity	95 %RH	
Storage temperature	-20℃ ~+75℃	
Storage humidity	<95%，Non-condensing	

6 Analog input parameters

Parameter Name	Technical Specifications	
Number of channels	8 channels / 4 channels	
Rated supply voltage	24V DC (18V.... .36V)	
Input method	Single-ended	
Range	Voltage type	-10 V ~ +10 V，0V~10V
	Current type	0~20 mA，4~20mA
Maximum limit value	Voltage type	-10 V ~ +10 V，0V~10V
	Current type	0~20 mA，4~20mA
Resolution	16bit	
Sampling frequency	≤ 1 ksps	
Accuracy	±0.1%	
Input Filtering	Default 10 times (configuration range 1 - 200 times)	
Conversion Time	800us/8 channels, 400us/4 channels	
Input Impedance	Voltage type	400kΩ
	Current type	100Ω
Isolation withstand voltage	500V AC	
Channel Protection	Over-voltage protection	
I/O external connection method	Spring-type terminal	
Physical dimensions	XX4 series：102×72×25mm XX6 series：106×73×25.7mm	
Weight	XX4 series：about 140g XX6 series：about 110g	
Mounting method	DIN 35mm rail	
Altitude	Below 2000m (Reference sea level operating altitude)	
IP rating	IP20	
Operating environment	Avoid dust, oil mist and corrosive gas	
Operating temperature	-10 ~ +60℃	
Operating humidity	95 %RH	
Storage temperature	-20℃ ~+75℃	
Storage humidity	<95%，Non-condensing	

7 Analog output parameters

Parameter Name	Technical Specifications	
Number of channels	8 channels / 4 channels	
Rated supply voltage	24V DC (18V...36V)	
Range	Voltage type	-10 V ~ +10 V，0V~10V
	Current type	0~20 mA，4~20mA
Resolution	16bit	
Accuracy	±0.1%	
Load Impedance	≥ 2 kΩ	
Isolation withstand voltage	500V AC	
Channel Protection	Short-circuit protection	
I/O external connection method	Spring-type terminal	
Physical dimensions	XX4 series：102×72×25mm XX6 series：106×73×25.7mm	
Weight	XX4 series：about 140g XX6 series：about 110g	
Mounting method	DIN 35mm rail	
Altitude	Below 2000m (Reference sea level operating altitude)	
IP rating	XX4、XX6 series：IP20	
Operating environment	Avoid dust, oil mist and corrosive gases	
Operating temperature	-10 ~ +60℃	
Operating humidity	95 %RH	
Storage temperature	-20℃ ~+75℃	
Storage humidity	<95%，Non-condensing	

8 Temperature acquisition module parameters

Parameter Name	Technical Specifications		
Number of channels	8 channels / 4 channels		
Rated supply voltage	24V DC (18V...36V)		
Sensor type	Thermocouple (TC)	RTD (Thermal Resistance Device)	Resistance (TD)
Wiring method	2-wire system	2-wire system/3-wire system	2-wire system
Range	K：-200~1370℃ J：-200~1200℃ E：-200~1000℃ S：-50~1690℃ B：50~1800℃	Pt100：－200~850℃ Pt200：－200~600℃ Pt500：－200~600℃ Pt1000：－200~600℃	15Ω~3kΩ
Accuracy	±0.5%	±1℃	±0.1%
Sensitivity	0.1℃		±0.1 Ω
Resolution	16 bit (int type)		
Conversion time (single channel)	201 ms	26 ms	
Cycle time (all channels)	(Single channel refresh time + disconnection detection time) * number of channels		
Input filtering	Single-channel filter, configurable (number of smoothing stages 1 to 10)		
Break detection	Support	Not supported	
Break detection time	2ms	/	
Maximum allowed input voltage per channel	30V		
Electrical isolation	500Vrms, no isolation between channels		
I/O external connection method	Spring-type terminal		
Physical dimensions	106×73×25.7mm		
Weight	Approx. 110g		
Mounting method	DIN 35mm rail		
Altitude	Up to 2000m (Reference sea level operating altitude)		
IP rating	IP20		
Operating environment	Avoid dust, oil mist and corrosive gas		
Operating temperature	-10 ~ +60° C		
Operating humidity	95 %RH		
Storage temperature	-20℃ ~ +75℃		
Storage humidity	<95%, non-condensing		

9 Pulse input module parameters

Parameter Name	Technical Specifications		
Number of channels	2 channels		
Rated supply voltage	24V DC (18V.... .36V)		
Encoder type	Incremental encoder, Orthogonal		
Encoder power supply	5V DC		
Type of Acquisition signal	Differential signal		
Signal type	RS422		
Process data volume	Upstream	20Byte	
	Downstream	12Byte	
Counting rate	<=500KHZ		
Z-phase zeroing	Support		
Hardware latch	Configurable latch signal		
Comparison output	Not supported		
Calculate magnification setting	4x/2x/1x (default 4x)		
Resolution setting	0-65535(default 0)		
Circular counting	(0-resolution *count multiplier count multiplier -1)		
Linear counting	0-4294967295		
Counting initial value setting	Support		
Hardware filtering	0-15 (default 7)		
Counting range selection	0-4294967295		
Reverse Counting	Support		
I/O external connection method	Spring-type terminal		
Input signal	Signal Type	NPN (sink) & PNP (source) compatibl	
	Number of Channels	1 pulse channel / 2 points	
	ON Voltage/ON Current	NPN：9V/2.7mA PNP：15V/2.8mA	
	OFF Voltage/OFF Current	NPN：11V/2.3mA PNP：5V/0.9mA	

Output signal	Signal Type	PNP (source)	
	Number of Channels	1 pulse channel / 2 points	
	Single channel load current	Max.0.5A	
	Load Type	Ohmic loadd, inductive load, lamp load	
I/O external connection method	Spring-type terminal		
Physical dimensions	XX4 series：102×72×25mm XX6 series：106×73×25.7mm		
Weight	XX4 series：about 140g XX6 series：about 110g		
Mounting method	DIN 35mm rail		
Altitude	Below 2000m (Reference sea level operating altitude)		
IP rating	IP20		
Operatin environment	Avoid dust, oil mist and corrosive gases		
Operating temperature	-10 ~ +60℃		
Operating humidity	95 %RH		
Storage temperature	-20℃ ~+75℃		
Storage humidity	<95%, Non-condensing		

10 Pulse output module parameters

Parameter Name	Technical Specifications	
Number of axes	4	
Rated power supply voltage	24V DC (18V...36V)	
Drive signa	differential signal	
Output specification		
Signal voltage		
Operating mode	Pulse + direction	
Output frequency	≤ 400KHz	
Synchronous cycle	≥ 1ms	
Input signal	Signal type	NPN(sink)
	Number of channels	1 pulse channel / 2 points
	ON voltage / ON current	NPN：Less than DC13.94V / more than 1.910mA
	OFF voltage / OFF current	NPN：More than DC13.90V / less than 1.905mA
	Input response frequency	4.233700254022Hz
	Input response time	ON → OFF：212ms
		OFF → ON：24.2ms
	Common terminal method	
	Input impedance	7.36kΩ
Channel protection		
I/O external connection method	spring-type terminal	
Exterior dimensions	XX4 series：102×72×25mm XX6 series：106×73×25.7mm	
Weight	XX4 series：about 140g XX6 series：about 110g	
Mounting method	DIN 35mm rail	
Altitude	Below 2000 meters (referring to operating altitude relative to sea level)	
IP rating	XX4、XX6 series：IP20	
Operatin environment	Avoid dust, oil mist and corrosive gases	
Operating temperature	-10 ~ +60℃	
Operating humidity	95 %RH	
Storage temperature	-20℃ ~+75℃	
Storage humidity	< 95%, non-condensing	
EMI characteristics	Conforms to the EN IEC61000-6-4-2019 standard	
EMS characteristics	Conforms to the EN IEC61000-6-2-2019 standard	
Shock resistance	Conforms to the EN 60068-2-6 standard	
Impact resistance	Conforms to the EN 60068-2-27/29 standard	

11 Stepper drive Module Parameters

Parameter Name	Technical Specifications	
Number of axes	Single-axis	
Adaptable motor	Two-phase hybrid stepper motor	
Driver power supply	Max. flange 86mm	
Output current	DC 24V or 48V	
Drive method	4A~6.0A/phase (peak)	
Device initialization time	Full-bridge bipolar PWM drive	
Input signal	2-channel high-speed input signal 100us	Optocoupler isolated, input voltage: H = 3.5 - 26V , L = 0 - 0.8V ON current 5 - 8mA
	3-channel general-purpose input signal 1ms	Optocoupler isolated, input voltage: H = 24V , L = 0 - 0.8V ON current 3~6mA
Output signal	2-channel general-purpose output signal	Opto-isolated output, maximum withstand voltage 30VDC, maximum saturation current 500mA
	1-channel brake output	Opto-isolated output, maximum withstand voltage 30VDC, maximum saturation current 500mA
I/O external connection method	Spring-type terminal	
Physical dimensions	106×73×25.7mm	
Weight	Approx. 110g	
Mounting method	DIN 35mm rail	
Altitude	Below 2000m (Reference sea level operating altitude)	
IP rating	IP20	
Operating environment	Avoid dust, oil mist and corrosive gas	
Operating temperature	-10 ~ +55° C	
Operating humidity	< 85 % RH, Non-condensing	
Storage temperature	-20° C ~ +75° C	
Storage humidity	< 95%, Non-condensing	
Heat dissipation	Installed in a ventilated environment When the current setting is greater than 3A or ambient temperature ≥ 45° C, forced air cooling is required	

12 IO-Link master parameters

Parameter Name	Technical Specifications
Operating voltag（V）	24VDC(18V~30V)
US total current	Maximum 16A
UA total current	Maximum 16A
IO-Link interface	M12, D-code, 4Pin, Pin end
Number of IO-Link channels	8
Type of IO-Link interfac	Class-A/Class-B
Version of IO-link	V1.1
Power interface	M12, L-code, 5Pin, Pin end/Hole end
Number of input channels	Maximum 16 points
Number of output channels	Maximum 8 points
Signal type	NPN/PNP
Mounting method	Screw fixation
Altitude	Below 2000m (Reference sea level operating altitude)
IP rating	IP67
Perating temperature	-25~+70℃
Storage temperature	-40~+85℃
Relative humidity	95%, Non-condensing

13 IO-Link Hub parameters

Parameter Name		Technical Specifications
Operating voltage（V）		24VDC(18V~30V)
Current loss（mA）		Idle condition：15mA
IO-Link interface		M12, D-code, 4Pin, Pin end
Type of IO-Link interface		Class-A
Version of IO-link		V1.1
Communication speed		COM2(38.4kbps)
Minimum cycle time		3.2ms
nput/output interface		M12, A-code, 5Pin, Hole end
Input signal	Signal type	PNP
	Number of channels	Maximum 16 channels
	Output signal	4mA
Output signal	Signal type	PNP
	Number of channels	Maximum 16 channels
	Maximum current for single-channel output	0.5A
	Total output current	Maximum 4mA
Diagnostic Support		Supply Pressure Monitoring;Temperature Monitoring;Short Circuit and Overload Protection
Protective Measures		Short Circuit Protection; Overload Protection
Dimensions		164.7 ◊ 57.7 ◊ 34.1 mm
Mounting Method		Screw Fixing
Altitude		Below 2000m (operating altitude relative to sea level)
IP rating		IP67
Operating Temperature		-25~+70℃
Storage Temperature		-40~+85℃
Relative Humidity		95%, non-condensing

## 14 Cables for product compatibility

IP20 Fieldbus I/O   IP67 Fieldbus I/O
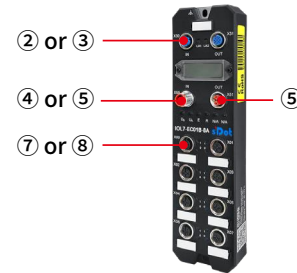
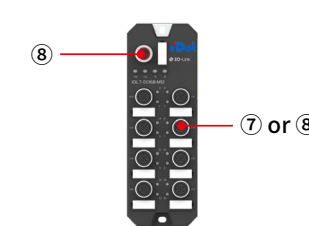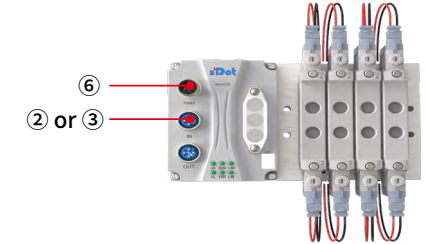| Category	Models	Description
①	SD-E/E-1.0	RJ45/RJ45, 1m, Shielded, PUR
	SD-E/E-3.0	RJ45/RJ45, 3m, Shielded, PUR
	SD-E/E-5.0	RJ45/RJ45, 5m, Shielded, PUR
	SD-E/E-10.0	RJ45/RJ45, 10m, Shielded, PUR
	SD-E/E-1.0T	RJ45/RJ45, 1m, Shielded, PUR, Drag chain compatible
	SD-E/E-3.0T	RJ45/RJ45, 3m, Shielded, PUR, Drag chain compatible
	SD-E/E-5.0T	RJ45/RJ45, 5m, Shielded, PUR, Drag chain compatible
	SD-E/E-10.0T	RJ45/RJ45, 10m, Shielded, PUR, Drag chain compatible
②	SD-DZG/E-1.0	M12 straight/RJ45, D-Code and RJ45, 1m, Shielded, PUR
	SD-DZG/E-3.0	M12 straight/RJ45, D-Code and RJ45, 3m, Shielded, PUR
	SD-DZG/E-5.0	M12 straight/RJ45, D-Code and RJ45, 5m, Shielded, PUR
	SD-DZG/E-10.0	M12 straight/RJ45, D-Code and RJ45, 10m, Shielded, PUR
	SD-DZG/E-1.0T	M12 straight/RJ45, D-Code and RJ45, 1m, Shielded, PUR, Drag chain compatible
	SD-DZG/E-3.0T	M12 straight/RJ45, D-Code and RJ45, 3m, Shielded, PUR, Drag chain compatible
	SD-DZG/E-5.0T	M12 straight/RJ45, D-Code and RJ45, 5m, Shielded, PUR, Drag chain compatible
	SD-DZG/E-10.0T	M12 straight/RJ45, D-Code and RJ45, 10m, Shielded, PUR, Drag chain compatible
③	SD-DZG/DZG-1.0	M12 straight/M12 straight, Male 4-pin, D-Code, 1m, Shielded, PUR
	SD-DZG/DZG-3.0	M12 straight/M12 straight, Male 4-pin, D-Code, 3m, Shielded, PUR
	SD-DZG/DZG-5.0	M12 straight/M12 straight, Male 4-pin, D-Code, 5m, Shielded, PUR
	SD-DZG/DZG-10.0	M12 straight/M12 straight, Male 4-pin, D-Code, 10m, Shielded, PUR
	SD-DZG/DZG-1.0T	M12 straight/M12 straight, Male 4-pin, D-Code, 1m, Shielded, PUR, Drag chain compatible
	SD-DZG/DZG-3.0T	M12 straight/M12 straight, Male 4-pin, D-Code, 3m, Shielded, PUR, Drag chain compatible
	SD-DZG/DZG-5.0T	M12 straight/M12 straight, Male 4-pin, D-Code, 5m, Shielded, PUR, Drag chain compatible
	SD-DZG/DZG-10.0T	M12 straight/M12 straight, Male 4-pin, D-Code, 10m, Shielded, PUR, Drag chain compatible
④	SD-LZM/S-1.0	M12 straight/loose wires, Female 5-pin, L-Code, 1m, Shielded, PUR
	SD-LZM/S-3.0	M12 straight/loose wires, Female 5-pin, L-Code, 3m, Shielded, PUR
	SD-LZM/S-5.0	M12 straight/loose wires, Female 5-pin, L-Code, 5m, Shielded, PUR
	SD-LZM/S-10.0	M12 straight/loose wires, Female 5-pin, L-Code, 10m, Shielded, PUR
	SD-LZM/S-1.0T	M12 straight/loose wires, Female 5-pin, L-Code, 1m, Shielded, PUR, Drag chain compatible
	SD-LZM/S-3.0T	M12 straight/loose wires, Female 5-pin, L-Code, 3m, Shielded, PUR, Drag chain compatible
	SD-LZM/S-5.0T	M12 straight/loose wires, Female 5-pin, L-Code, 5m, Shielded, PUR, Drag chain compatible
	SD-LZM/S-10.0T	M12 straight/loose wires, Female 5-pin, L-Code, 10m, Shielded, PUR, Drag chain compatible
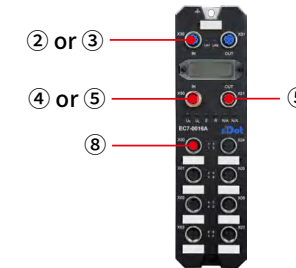
IO-Link Master Station   IO-Link Hub   C2S Valve Terminal

Category	Models	Description
⑤	SD-LZM/LZG-1.0	M12 straight/M12 straight, Female 5-pin/Male 5-pin, L-Code, 1m, Shielded, PUR
	SD-LZM/LZG-3.0	M12 straight/M12 straight, Female 5-pin/Male 5-pin, L-Code, 3m, Shielded, PUR
	SD-LZM/LZG-5.0	M12 straight/M12 straight, Female 5-pin/Male 5-pin, L-Code, 5m, Shielded, PUR
	SD-LZM/LZG-10.0	M12 straight/M12 straight, Female 5-pin/Male 5-pin, L-Code, 10m, Shielded, PUR
	SD-LZM/LZG-1.0T	M12 straight/M12 straight, Female 5-pin/Male 5-pin, L-Code, 1m, Shielded, PUR, Drag chain compatible
	SD-LZM/LZG-3.0T	M12 straight/M12 straight, Female 5-pin/Male 5-pin, L-Code, 3m, Shielded, PUR, Drag chain compatible
	SD-LZM/LZG-5.0T	M12 straight/M12 straight, Female 5-pin/Male 5-pin, L-Code, 5m, Shielded, PUR, Drag chain compatible
	SD-LZM/LZG-10.0T	M12 straight/M12 straight, Female 5-pin/Male 5-pin, L-Code, 10m, Shielded, PUR, Drag chain compatible
⑥	SD-AZM/S-1.0	M12 straight/loose wires, Female 5-pin, A-Code, 1m, Shielded, PUR
	SD-AZM/S-3.0	M12 straight/loose wires, Female 5-pin, A-Code, 3m, Shielded, PUR
	SD-AZM/S-5.0	M12 straight/loose wires, Female 5-pin, A-Code, 5m, Shielded, PUR
	SD-AZM/S-10.0	M12 straight/loose wires, Female 5-pin, A-Code, 10m, Shielded, PUR
	SD-AZM/S-1.0T	M12 straight/loose wires, Female 5-pin, A-Code, 1m, Shielded, PUR, Drag chain compatible
	SD-AZM/S-3.0T	M12 straight/loose wires, Female 5-pin, A-Code, 3m, Shielded, PUR, Drag chain compatible
	SD-AZM/S-5.0T	M12 straight/loose wires, Female 5-pin, A-Code, 5m, Shielded, PUR, Drag chain compatible
	SD-AZM/S-10.0T	M12 straight/loose wires, Female 5-pin, A-Code, 10m, Shielded, PUR, Drag chain compatible
⑦	SD-AZG/S-1.0	M12 straight/loose wires, Male 5-pin, A-Code, 1m, Shielded, PUR
	SD-AZG/S-3.0	M12 straight/loose wires, Male 5-pin, A-Code, 3m, Shielded, PUR
	SD-AZG/S-5.0	M12 straight/loose wires, Male 5-pin, A-Code, 5m, Shielded, PUR
	SD-AZG/S-10.0	M12 straight/loose wires, Male 5-pin, A-Code, 10m, Shielded, PUR
	SD-AZG/S-1.0T	M12 straight/loose wires, Male 5-pin, A-Code, 1m, Shielded, PUR, Drag chain compatible
	SD-AZG/S-3.0T	M12 straight/loose wires, Male 5-pin, A-Code, 3m, Shielded, PUR, Drag chain compatible
	SD-AZG/S-5.0T	M12 straight/loose wires, Male 5-pin, A-Code, 5m, Shielded, PUR, Drag chain compatible
	SD-AZG/S-10.0T	M12 straight/loose wires, Male 5-pin, A-Code, 10m, Shielded, PUR, Drag chain compatible
⑧	SD-AZG/AZM-1.0	M12 straight/M12 straight, Male 5-pin/Female 5-pin, A-Code, 1m, Shielded, PUR
	SD-AZG/AZM-3.0	M12 straight/M12 straight, Male 5-pin/Female 5-pin, A-Code, 3m, Shielded, PUR
	SD-AZG/AZM-5.0	M12 straight/M12 straight, Male 5-pin/Female 5-pin, A-Code, , 5m, Shielded, PUR
	SD-AZG/AZM-10.0	M12 straight/M12 straight, Male 5-pin/Female 5-pin, A-Code, 10m, Shielded, PUR
	SD-AZG/AZM-1.0T	M12 straight/M12 straight, Male 5-pin/Female 5-pin, A-Code, 1m, Shielded, PUR, Drag chain compatible
	SD-AZG/AZM-3.0T	M12 straight/M12 straight, Male 5-pin/Female 5-pin, A-Code, 3m, Shielded, PUR, Drag chain compatible
	SD-AZG/AZM-5.0T	M12 straight/M12 straight, Male 5-pin/Female 5-pin, A-Code, 5m, Shielded, PUR, Drag chain compatible
	SD-AZG/AZM-10.0T	M12 straight/M12 straight, Male 5-pin/Female 5-pin, A-Code, 10m, Shielded, PUR, Drag chain compatible

LEADING INDUSTRIAL CONNECTIVITY
MAKING SMART MANUFACTURING EASIER