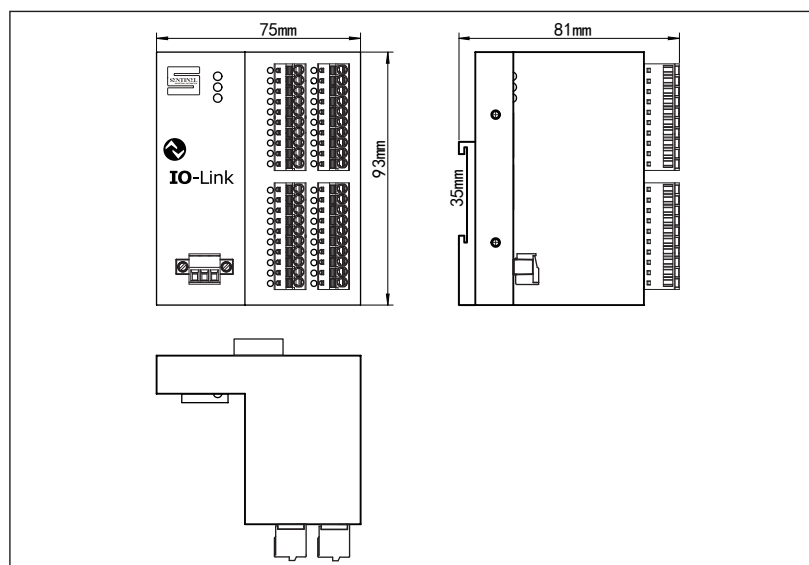




- IO-Link remote I/O device
- Four groups of IO terminals are independently powered.
- 32 Digital outputs, 0.2A per channel
- DIN guide rail installation
- Metal housing, Protection class IP20

Supply voltage	24VDC $\pm$ 10%
Operating current	< 200mA
Module and load power supply	UB and UL are internally isolated and need to be powered separately
Load power group	Divided into 4 groups, which need separate power supply

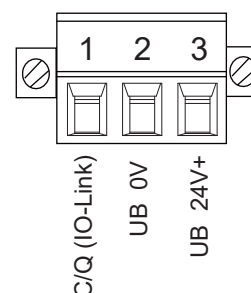
Output	
Number of channels	32
Output type	The common terminal is 0V
Output current	0.2A
Output protection	Overload protection, overheating protection
Output protection reaction time	Approximately 20ms
Switching frequency	100HZ
Output voltage drop	0.6V
Electrical Isolation mode	Optocoupler isolation

IO-Link	
Vendor ID	1317 (0x0525)
Device ID	66337(0x010321)
Number of ports	1
IO-Link specification	V1.1
IO-Link port type	Class A
Frame type	TYPE_2_v
Transmission rate	COM2 38.4 kbit/s
Minimum cycle time	4000us
ISDU	Supported
Block parameter operation	Not support
Data storage (DS)	Supported
Data storage lock	Supported

Note: This function is supported for compatibility, but the device will not perform this operation.

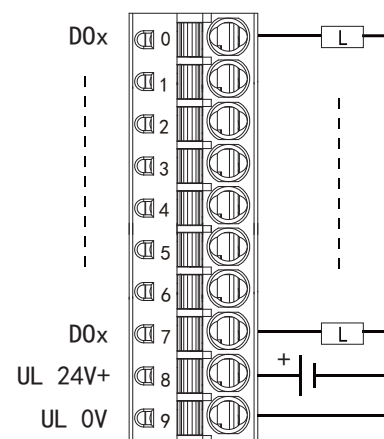
Operating temperature	-20-55 °C
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Power supply and communication interface



Note : UB is the module power supply

Output terminal



Note : UL is the Load power supply

Module LEDS Zone: I

POWER : Green LED light
ON : The module power supply (UB) is normal.

RUN : Green LED light
ON : The IO-Link communication is normal;
OFF: The IO-Link communication is not established
Flash : Communication is being established, but not yet established

ERROR : Not use

DOx : Yellow LED light
ON : Output active

NC : Not use
COM : Not use

Power supply and communication terminal Zone: II

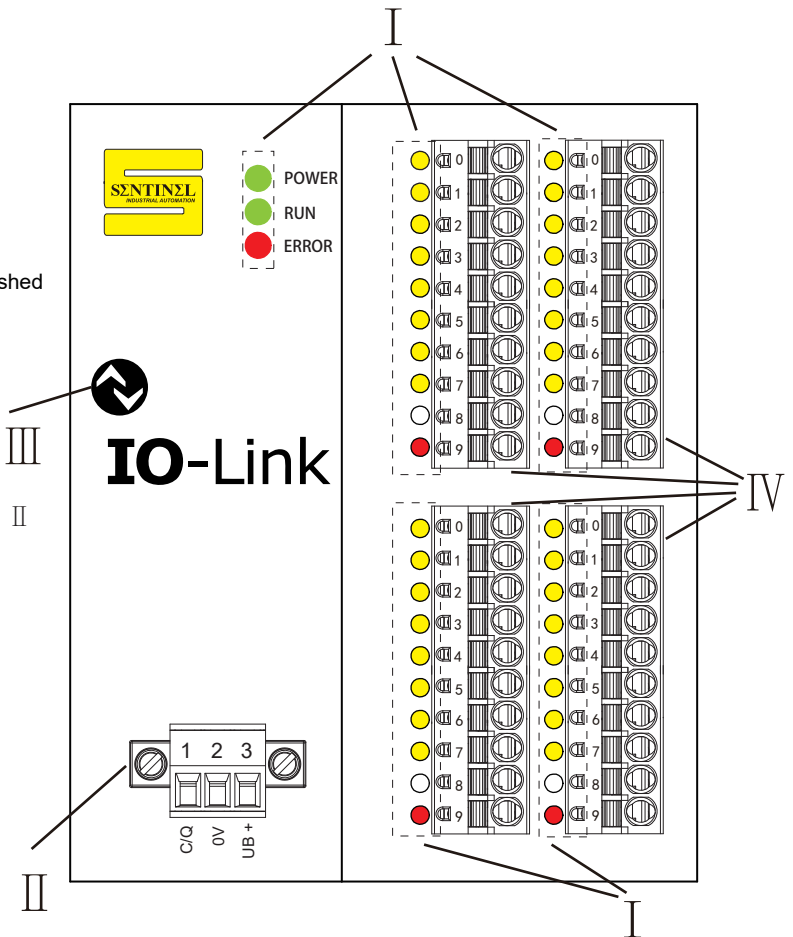
UB+: Module power supply 24VDC positive;
0V : Module power supply 24VDC negative
C/Q : IO-Link

Protocol identification Zone: III

IO-Link protocol identification

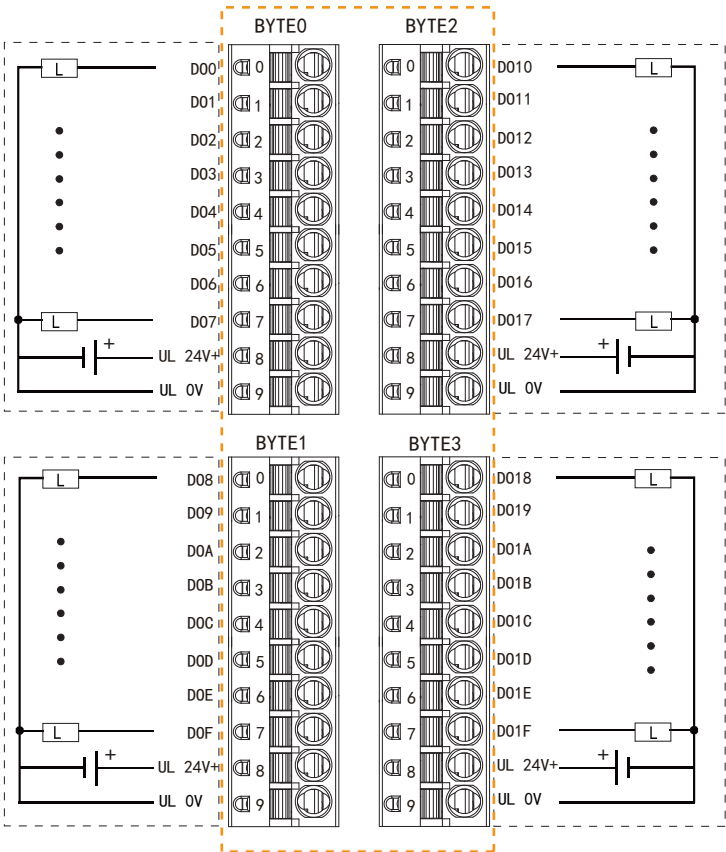
IO signal terminal Zone: IV

DOx : This is the output signal
NC : Not use
COM : If COM is negative, connect the PNP sensor
If COM is positive , connect the NPN sensor



Point distribution and external wiring diagram
Output terminal

Output point mapping table								
	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
BYTE0	DO7	DO6	DO5	DO4	DO3	DO2	DO1	DO0
BYTE1	DOF	DOE	DOD	DOC	DOB	DOA	DO9	DO8
BYTE2	DO17	DO16	DO15	DO14	DO13	DO12	DO11	DO10
BYTE3	DO1F	DO1E	DO1D	DO1C	DO1B	DO1A	DO19	DO18



Direct Parameter

Direct parameters are used to identify the device . Direct parameters are operated by index 0 .
The Subindex 0 represents operating the entire index; Subindex 1 represents address 0;
Subindex 16 represents address 0x0F.

Index	Address	Parameter name	Length	Authority	Description
0	0x07 7	Vendor ID(High)	1Byte	Read	0x05
0	0x08 8	Vendor ID(low)	1Byte	Read	0x25
0	0x09 9	Device ID(High)	1Byte	Read	0x01
0	0x0A 10	Device ID(median)	1Byte	Read	0x03
0	0x0B 11	Device ID(low)	1Byte	Read	0x21

Parameter data / Request data/ISDU indexed service data unit

Index	Subindex	Parameter name	Length	Authority	Description
0x02 2	0	System command	1Byte	Write	0x80 128 Device reset 0x82 130 Restore factory settings
0x10 16	0	Manufacturer name	8Byte	Read	Sentinel
0x11 17	0	Manufacturer description	41Byte	Read	Sentinel Industrial Ethernet manufacturer
0x12 18	0	Device name	14Byte	Read	SIOL-TL-32DO
0x13 19	0	Device ID	7Byte	Read	6633701
0x14 20	0	Device description	29Byte	Read	I/O Module 32 digital output
0x15 21	0	Serial-Number	9Byte	Read	663370101
0x16 22	0	Hardware version	8Byte	Read	HW-V0.01
0x17 23	0	Software release	8Byte	Read	FW-V0.01
0x18 24	0	ApplicationSpecificTag	maximum 32Byte	Read Write	This item is defined in the IODD file , Included in the DataStorage (DS)
0x19 25	0	Function Tag	maximum 32Byte	Read Write	This item is not defined in the IODD file , It can be set directly through Index.
0x1A 26	0	Local Tag	maximum 32Byte	Read Write	This item is not defined in the IODD file , It can be set directly through Index.
0x24 36	0	Device state	1Byte	Read	0: The equipment is operating normally; 1: Need to maintain; 2: Running incorrect environment or parameters; 3: Device abeyance; 4: Device failed to run;