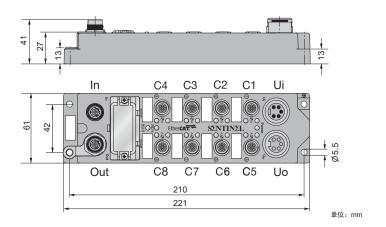
Compact I/O Module for EtherCAT.

8 IO-Link Master Channels

ELCT-8IOL-0001

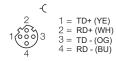




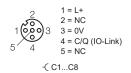
- EtherCAT remote I/O module
- Integrated Ethernet Switch
- Support 100Base-TX
 - 2XM12,4-pin,D-code,Ethernet Fieldbus connection
- 8 IO-Link Master Channels
- IO-Link Protocol 1.1
- IO-Link master port class A
- M12 ports for IO-Link master, 5-pin
- Impact and vibration resistance
- Fully potted module electronics
- Copper-plated nickel connector
- Protection classes IP67

Modle	ELCT-8IOL-0001	
Supply voltage	24VDC ± 10%	
Operating current	< 200mA	
Supply current	>8A	
IO-LINK port parameters		
Number of ports	8 (C1C8)	
Connectivity inputs	M12, A-code, 5-pin	
Common IO	Not supported, Pin 2 needs to be empty	
Current supply per port	Maximum 2A	
	C1C4 Total current max 4 A	
	C5C8 Total current max 4 A	
IO-LINK parameters		
SIO model	Not Supported	
IO-Link Pin definition	Pin 4 in IOL mode	
IO-Link Port type	Class A	
IO-Link specification	Version 1.1	
Frame type	Supports all specified frame types	
Support Device	Maximum 32Bytes Input / 32Bytes Output	
Transmission rate	4.8kbps(COM1) / 38.4kbps(COM2) / 230.4kbps(COM3)	
EtherCAT		
Number of communication interface	2	
Transmission standed	100Base-TX	
Auto-negotiation	YES	
Auto-MDI/MDIX	YES	
Maximum transmission rate	100Mbit/s	
Autoscan	The EtherCAT scanning function can automatically scan the IO-Link Device connected to the port	
Operating temperature	-20+55 °C	

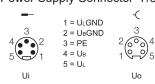
Bus Connector M12



IO-LINK Port Connector M12



Power Supply Connector 7/8"

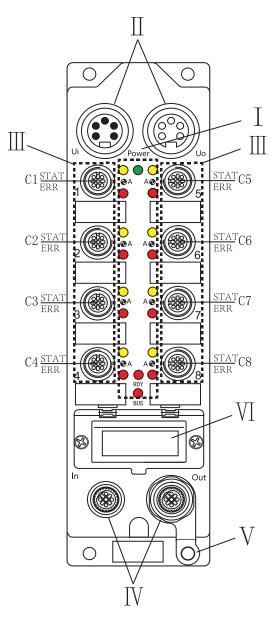


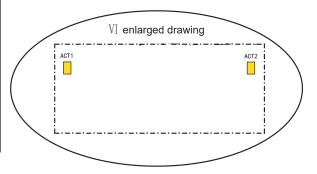
Note: UB is the module power supply, and UL is the load power supply Note: UL is not used inside the module, so it is unnecessary to connect it. Ui to Uo is directly connected

			Description			
		Module LEDS	LED name		Detailed introduction	
	I		POWER	Green LED lights:	ON:The module power supply (Ub) is normal OFF:The module power supply is disconnected	
			BUS	Green LED lights:	OFF:The module is in the "INIT" state Fast flash:The module is in the "Pre-operational" state Slow flash:The module is in the "Safe-operational" state ON: The module is in the "OP" state	
	1		RDY	Red LED lights:	Flash: IO-Link is not ready OFF: IO-Link is ready ON: There is an error in the IO-Link port, which is inconsistent with the configuration	
			STAT	ON: The IO-Link	IO-Link communication status of the port (C1 - C8) communication is normal communication is not established	
			ERR	parameter setti OFF: No error in this	state of the port king abnormally: please Check the IO-Link cable and ng of IO-Link in configuration port: IO-Link Communication is normal OR this port is closed in EtherCAT configuration	
	II	Power suppy	Ui (left) : power suppy input , 7/8", 5-pin , male Uo (right) : power suppy output , 7/8", 5-pin , female			
	Ш	IO-Link PORT	connected. C* in the fig status indicates. For example Totally is 8 External po	he figure represents the *th port; The STAT represents the communication indicator lamp; The ERR represents the working status indicator lamp.		
	IV	Bus	In (left): EtherCAT Bus in , M12 , D-Code , 5-pin , female Out (right): EtherCAT Bus out , M12 , D-Code , 5-pin , female			
	V	PE	Ground connection			
,	VI	Network status	ACT1	in ,Green LED lights :	ON: Physical connections have been established OFF: No connection Flash: This port has data exchange	
	VI	LEDS	ACT2 Bus	out ,Green LED lights :	ON: Physical connections have been established OFF: No connection Flash: This port has data exchange	

IO-Link Device Status

Name	Data type	Description
8 Port IO-Link Current Status	USINT	Status of 8 IO-Link ports 0: Communication is interrupted 1: Normal communication Bit0: PORT1 current state Bit1: PORT2 current state Bit2: PORT3 current state Bit3: PORT4 current state Bit7: PORT8 current state
8 Port IO-Link Error Status	USINT	Error Status of 8 IO-Link ports 0: There is no error 1: Error occurred Bit0: PORT1 Error status Bit1: PORT2 Error status Bit2: PORT3 Error status Bit3: PORT4 Error status Bit7: PORT8 Error status Bit7: PORT8 Error status
Error Times_Port1 Error Times_Port2 Error Times_Port3 Error Times_Port4 Error Times_Port5 Error Times_Port6 Error Times_Port7 Error Times_Port8	USINT	Number of port errors Starting from module power-on, Accumulate the number of times the IO-LINK device is cut off. The module is powered on again, and the number of errors is cleared.





Automatic scanning function

After the module is powered on, it automatically detects and establishes communication with the IO-Link Device connected to the 8 ports. If the EtherCAT does not communicate properly at this time, you will scan the EtherCAT module and the IO-Link Device for each port. You can also manually make changes to the Slots in the EtherCAT module.

Note: If EtherCAT has normal communication with EtherCAT Master, the module will connect to eight IO-Link ports following the Slots parameter in the configuration. If you want to scan the 8-port connected Device, first remove the configuration of the EtherCAT module, disconnect it from the EtherCAT Master, and then repower on the EtherCAT module before performing automatic scanning.