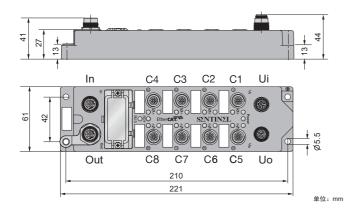
# Compact I/O Module for EtherCAT

## 8 IO-Link Master Channels ELCT-8IOL-L04B





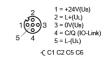
- EtherCAT remote I/O module
- Integrated Ethernet Switch
- Support 100Base-TX
- 2XM12,D-code,Ethernet Fieldbus connection
- 8 IO-Link Master Channels
- IO-Link Protocol 1.1
- IO-Link master port 4A+4B
- M12 ports for IO-Link master, A-code
- Impact and vibration resistance
- Fully potted module electronics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

Model	ELCT-8IOL-L04B
Supply voltage	24VDC ± 10%
Operating current	< 200mA
Module power(UB)	≤8A
Load power(UL)	<b>≤</b> 8A
IO-LINK port parameters	
Number of ports	8(C1C8)
Connectivity inputs	M12 A-coded,5-pin female
Current supply per port	Rated 1A, max 2A: UB from pins 1,3;
	Among: C1C4, C5C8 ≤ 4A each.
	Max 2A: UL from pins 2,5;
	Among: C1,C2, C5,C6 ≤ 4A each.
IO-LINK port parameters	
SIO model	Not supported
IO-Link Pin definition	Pin 4 in IOL mode
IO-Link Port type	Class A (C3 C4 C7 C8)+Class B(C1 C2 C5 C6)
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-MDVMDIX	YES
Maximum transmission rate	100Mbit/s
Interface type	M12,D-coded,Femal
Operating temperature	–20–55℃





#### IO-Link Port Connector M12



#### IO-Link Port Connector M12

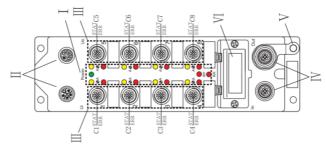


#### Power Supply Connector L-coded



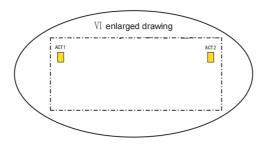
Note: UB is the Moudel power, UL is the Load power





		Description		
I		LED name	Detailed introduction	
	Module LEDS	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	
		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	Yellow LED lights: The IO-Link communication status of the port (C1-C8) ON: The IO-Link communication is normal OFF: The IO-Link communication is not established	
		ERR	Red LED light: Working state of the port ON: The port is working abnormally; please check the IO-Link cable and parameter setting of IO-Link in configuration OFF: no error in this port. IO-Link communication is normal OR this port is closed or deactivated in EtherCAT configuration	
II	Power supply	Ui (left): power supply input, L-code, 5-pin, male Uo (right): power supply output, L-code, 5-pin, female		
Ш	IO-Link PORT	<ul> <li>M12 A-code – 5-pin; Pin 4 is IO-Link; Pin 2 is empty, no external signals can be connected.</li> <li>C* in the figure represents the "th port"; the STAT represents the communication status indicator lamp; the ERR represents the working status indicator lamp.</li> <li>For example, C1 STATE/RR represents that the port is PORT 1. The LED above the right of the port is STAT and the LED below is ERR.</li> <li>Totally there are 8 IO-Link ports. Every port is independent lamp for STAT &amp; ERR.</li> <li>External power supply is required for Class B Device.</li> <li>Note: Please close the port in the EtherCAT configuration when not used; try not to let the module have a red light.</li> </ul>		
IV	Bus	In (left): EtherCAT Bus in, M12, D-Code, 5-pin, female Out (right): EtherCAT Bus out, M12, D-Code, 5-pin, female		
٧	PE	Ground connection		
VI	Network status LEDS	ACT1 C	us in, Green LED lights: N: Physical connections have been established PFF: No connection lash: This port has data exchange	
		ACT2	us out, Green LED lights: IN: Physical connections have been established IFF: No connection lash: 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	
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 Bit4: PORT5 Error status Bit1: PORT2 Error status Bit5: PORT6 Error status Bit2: PORT3 Error status Bit6: PORT7 Error status Bit3: PORT4 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 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.