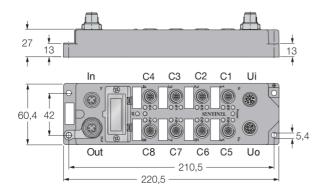
Compact I/O Module for EtherCAT

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





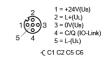
- EtherCAT remote I/O module
- Integrated Ethernet Switch
- Support 100Base-TX
- 2XM12,D-code,Ethernet Fieldbus connection
- 8 IO-Link Master Channels
- IO-Link Protocol 1.1
- IO-Link master port 4A+4B
- M12 ports for IO-Link master, A-code
- Impact and vibration resistance
- Fully potted module electronics
- 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)	≤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	F
Frame type	Supports all specified frame types	Ċ
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℃	

Bus Connector M12



IO-Link Port Connector M12



IO-Link Port Connector M12

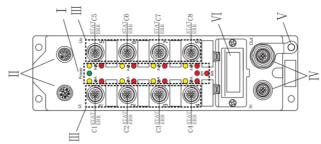


Power Supply Connector L-coded



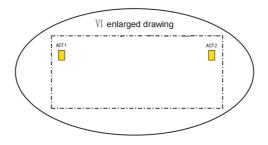
Note: UB is the Moudel power, UL is the Load power





			Description		
		LED name	Detailed introduction		
I	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	 M12 A-code – 5-pin; Pin 4 is IO-Link; Pin 2 is empty, no external signals can be connected. C* in the figure represents the "th port"; the STAT represents the communication status indicator lamp; the ERR represents the working status indicator lamp. 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. Totally there are 8 IO-Link ports. Every port is independent lamp for STAT & ERR. External power supply is required for Class B Device. Note: Please close the port in the EtherCAT configuration when not used; try not to let the module have a red light. 			
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 LEDS	ACT1	Bus in, Green LED lights: DN: Physical connections have been established DFF: No connection Flash: This port has data exchange		
		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
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 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.