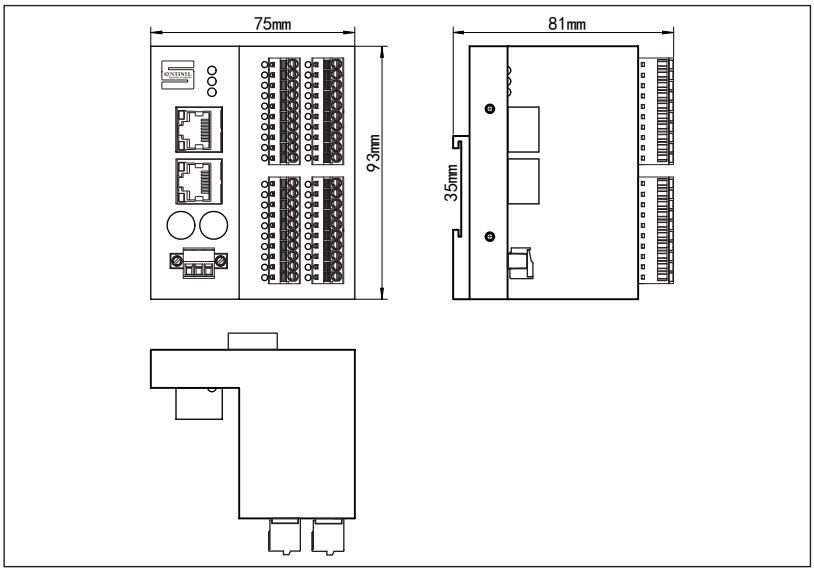
Compact IP20 EtherCAT protocol I/O Station

16Digital PNP/NPN inputs
16 Digital outputs

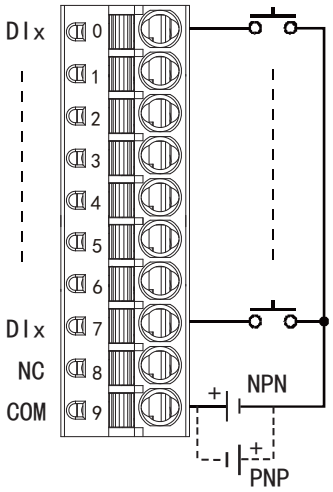
CMCT-IOM16-0001



- EtherCAT remote I/O module
- Integrated Ethernet Switch
- Support 100Base-TX
- 2 RJ45 ports for the Ethernet connection
- 16 Digital ouputs
- 16 Digital PNP/NPN inputs
- DIN guide rail installation
- Metal housing , Protection class IP20

Supply voltage	24VDC ± 10%
Operating current	< 75mA
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
Input	
Number of channels	16
Input type	PNP or NPN
input impedance	3K
Input rated current	7mA
Input delay	5ms
Switch threshold	7V/14V 2mA/4mA
electrical Isolation mode	Optocoupler isolation
Output	
Number of channels	16
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
communication interface	
Number of communication interface	2
transmission mode	100Base-TX
Automatic consultation mechanism	YES
Automatic cross-flip	YES
Maximum transmission rate	100Mbit/s
Station address spin code setting	NO
Operating temperature	0-55 ℃

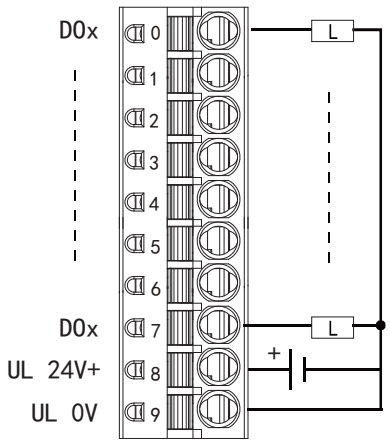
Input terminal



If COM is negative, connect the PNP sensor

If COM is positive , connect the NPN sensor

Output terminal

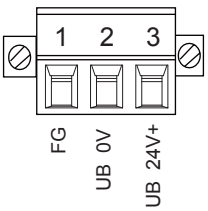


Note： UL is the Load power supply

Communication

RJ45 pin assignment	RJ45 plug
1. YE 2. OG 3. WH 4. N/C 5. N/C 6. BU 7. N/C 8. N/C	12345678

Power Supply



Note： UB is the module power supply

module LEDS Zone: Ⅰ

POWER : Green LED light
ON: The module power supply (UB) is normal.
RUN : Green LED light
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
ERROR : not use
DIx : Yellow LED light
ON : Input active
DOx : Yellow LED light
ON : Output active
NC : not use
COM : not use
LINK/ACT: Yellow LED light
ON : Physical connections have been established
OFF: No connection
Flash: This port has data exchange

Module power terminal Zone: Ⅱ

UB+: Module power supply 24VDC positive;
0V : Module power supply 24VDC negative
FG : ground connection

Ethernet interface Zone: Ⅲ

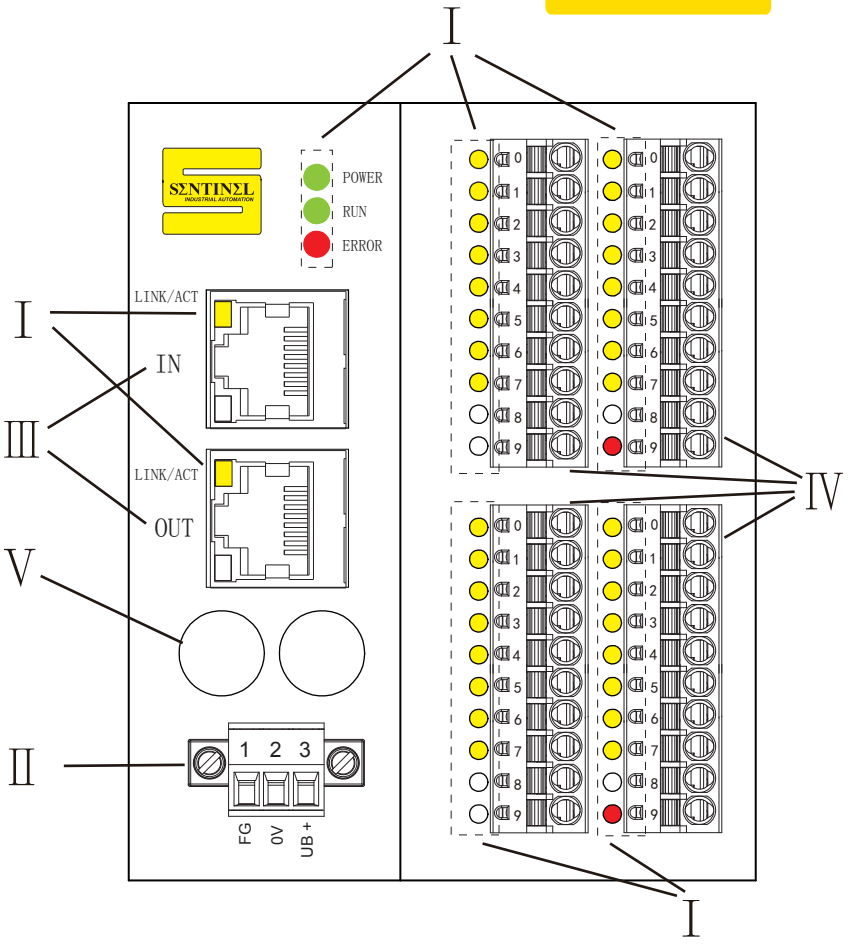
IN : EtherCAT BUS In
OUT: EtherCATBUS OUT

IO signal terminal Zone: Ⅳ

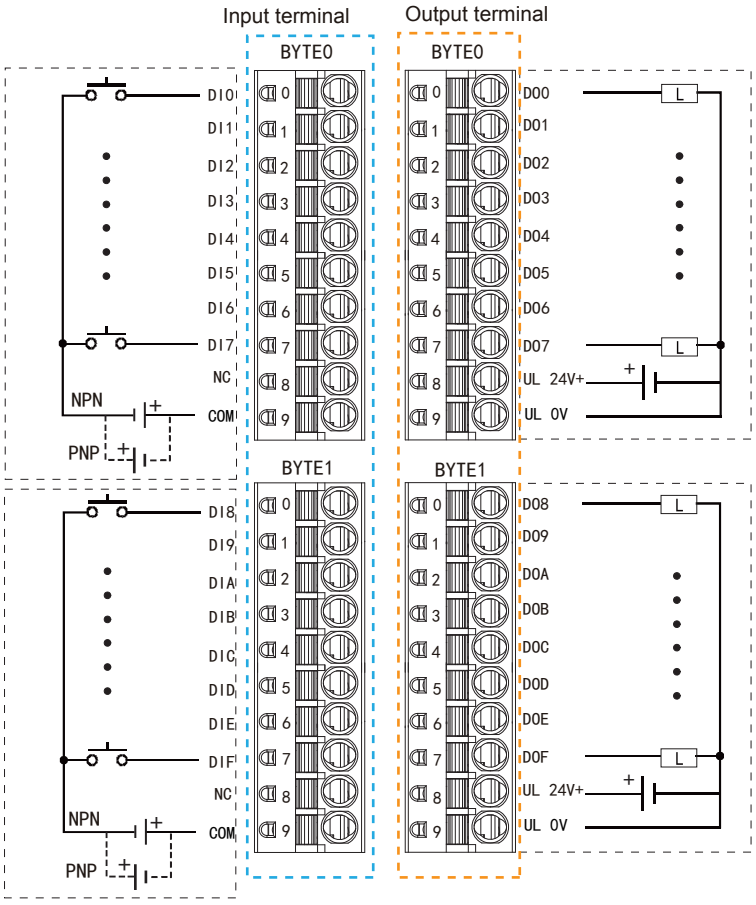
DIx :This point is input.
DOx :This point is output.
NC :not use
COM : If COM is negative, connect the PNP sensor
If COM is positive , connect the NPN sensor

Address dialing Zone: Ⅴ

At present, setting module address by dialing code is not supported.
This function is reserved.Please do not open this area;



Point distribution and external wiring diagram



Input point mapping table

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
BYTE0	DI7	DI6	DI5	DI4	DI3	DI2	DI1	DI0
BYTE1	DIF	DIE	DID	DIC	DIB	DIA	DI9	DI8

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