AMAX-4850
AMAX-4860

16-ch IDI & 8-ch PhotoMOS EtherCAT Remote I/O module

8-ch IDI & 8-ch Relay EtherCAT Remote I/O module

AMAX-4850

RoHS COMPLIANT 2002/95/EC   CE FCC

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Features

- Suitable for EtherCAT networks
- 16-ch digital input and 8-ch PhotoMOS Relay output (Form A)
- 1500 V_{DC} optical isolation for relay outputs
- Quick removable European type connector
- LED indicators for I/O status
- Supports EtherCAT Distributed Clock (DC) mode and SyncManager mode
- Two Rotary switches for up to 256 slave IDs

Features

- Suitable for EtherCAT networks
- 8-ch Isolated Digital Input and 8-ch Form A-type Relay Output
- High-voltage isolation on input channel (2,500 V_{DC})
- Quick removable European type connector
- LED indicators for I/O status
- Supports EtherCAT Distributed Clock (DC) mode and SyncManager mode
- Two Rotary switches for up to 256 slave IDs

Introduction

The AMAX-4850 is an industrial EtherCAT slave module equipped with the EtherCAT protocol. Its compact size and DIN-rail mount kit can install easily in a cabinet. Euro type pluggable terminal blocks and LED indicator help users to maintain and set up their system. All digital input and PhotoMOS Relay Output channels are protected by isolation circuits.

Introduction

The AMAX-4860 is an industrial EtherCAT slave module equipped with the EtherCAT protocol. Its compact size and DIN-rail mount kit can install easily in a cabinet. Euro type pluggable terminal blocks and LED indicator help users to maintain and set up their system. All digital input channels are protected by 2,500 V_{DC} isolation circuits.

Specifications

Communication

Interface	EtherCAT
Data transfer medium	Ethernet/EtherCAT cable (min. CAT 5), shielded
Distance between modules	Max. 100 m (100BASE-TX)
Communication Cycle Time	200us
Data transfer rates	100 Mbps
Configuration	Not required

Digital Input

Channels	16
Input voltage	Logic 0: 3 V max.; Logic 1: 10 V min. (30 V max.)
Isolation protection	2,500 V_{DC}

PhotoMOS Relay Output

Channels	8
Relay type	PhotoMOS SPST(Form A)
Load Voltage	60V (AC peak or DC)
Load current	1.2A
Peak load current	4A @100ms(1 pulse)
Isolation protection	1,500 V_{DC}
Turn-on time	1 ms typical
Turn-off time	0.6 ms typical

General

Connectors	10-pin 3.81 mm terminal block * 4 (I/O)
	3-pin 3.81 mm screw terminal block (power)
	RJ-45 * 2 (EtherCAT)
Dimensions	120 mm x 120 mm x 40 mm
Operating temperature	-20 ~ 60°C (32 ~ 140°F)
Storage temperature	-40 ~ 70°C (-40 ~ 158°F)
Storage humidity	5 ~ 95% RH (non-condensing)
Power supply	10 ~ 30 V_{DC}
Power Consumption	Typical 85mA @24V; Max. 110mA @24V

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Configuration	Not required
Communication Cycle Time	200us

Digital Input

Channels	8
Input voltage	Logic 0: 3 V max.; Logic 1: 10 V min. (30 V max.)
Isolation protection	2,500 V_{DC}

Relay Output

Channels	8
Relay Type	Form A
Contact Rating (resistive)	2A@250V_{AC}, 2A@30V_{DC}
Max. Switching Power	500VA , 60W
Max. Switching Voltage	270V_{AC}, 125V_{DC}
Resistance	30mΩ max.
Operating Time	Max. 10ms
Releasing Time	Max. 5ms
Life Expectancy	Mechanical 2 x 10^7 ops. at no load.
	Electrical 3 x 10^4 ops. @2A/250V_{AC}

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Ordering Information

AMAX-4850-AE	16 IDI & 8 PhotoMOS EtherCAT Remote I/O module
96PSD-A40W24-MM	DIN RAIL A/D 100-240V 40W 24V

Ordering Information

AMAX-4860-AE	8-ch IDI & 8-ch Relay EtherCAT Remote I/O module
96PSD-A40W24-MM	DIN RAIL A/D 100-240V 40W 24V

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