EtherCAT Series Products

Isolated 8-ch DO and 8-ch DI EtherCAT Slave I/O Module

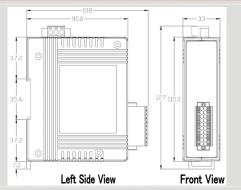








ECAT-2055



Dimensions

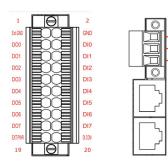
The ECAT-2055 is an industrial slave I/O module built in 8 digital inputs and 8 digital outputs. It is equipped with the EtherCAT* protocol and installed by daisy chain connection that provides a more scalable system with fewer wires. Users can obtain the input and output status not only via the process data but also from its LED indicators. The ECAT-2055 has passed and verified by the conformance test tool, therefore eligible EtherCAT Master or configurator can manipulate it simply and implement your various applications easily.

* EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Features

- On the fly processing: EtherCAT
- Powerful MCU handles efficient network traffic
- 2 x RJ-45 bus interface
- Distance between stations up to 100 m (100BASE-TX)
- Support daisy chain connection
- EtherCAT conformance test tool verified
- Removable terminal block connector
- LED indicators for the I/O status
- Built-In Inputs and Outputs: 8 DI and 8 DO
- RoHS compliant
- ESD Protection 4 KV Contact for each channel

Pin Assignment



Wire connection

Output	ON	OFF
Drive Relay	Ext.PWR DOX Ext.GND	Ext.PWR DOX Ext.GND
Resistand Load	Ext.PWR DOX Ext.GND	Ext.PWR DOX Ext.GND
Input	ON	OFF
Relay Contact (Dry)	Relay DIX GND	Relay □□□ DIx GND
Open Collecto (Dry)	r ON ∹JI □⊖ DIX GND	OFF-K↓× □⊖ DIX GND
Relay Contact (Wet)	+ = DI.COM DIx	+ = DI.COM DIX
NPN Output (Wet)	ON LILE DI.COM DIX	OFF: DI.COM DIX

Application

Daisy Cha EtherCAT Master Unit	Up to 655: Up to Up to 100m	35 EtherCAT Slave Units
Isolated Digital Inputs		Isolated Digital Outputs
Switches, Buttons, etc.	ECAT-2000	Alarms, Fans, Heater, etc.

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Hardware Specifications

Digital Input					
Channels	8				
Input Type	Dry (Source)	Wet (Sink/Source)			
OFF Voltage Level	Open	+4 V Max.			
ON Voltage Level	Close to GND	+10 V ~ +50 V			
Photo-Isolation 3750 VDC					
Digital Output					
Channels	8				
Output Type	Open Collector (Sink)				
Load Voltage	+3.5 ~ 50 V				
Max. Load Current	700mA per channel				
Isolation Voltage 3750 V _{rms}					
Communication Interface					
Connector	2 x RJ-45				
Protocol	EtherCAT				
Distance between Stations	ween Stations Max. 100 m (100BASE-TX)				
Data Transfer Medium	Ethernet/EtherCAT Cable (Min. CAT 5), Shielded				
Power					
Input Voltage Range 10V ~ 30VDC					
Power Consumption	Max. 4W				
Mechanism					
Installation DIN-Rail					
Dimensions	110mm x 90mm x 33mm (H x W x D, without connectors)				
Case Material	UL 94V-0 Housing				
Environment	Environment				
Operating Temperature	-25°C ~75°C				
Storage Temperature	-30°C ~ 80°C				
Relative Humidity	10 ~ 90%, No Condensation				
ESD (IEC 61000-4-2)	4 KV Contact for Each Channel				
EFT (IEC 61000-4-4)	Signal: 1 KV Class A; Power: 1 KV Class A				
Surge (IEC 61000-4-5)	1 KV Class A				

Ordering Information

ECAT-2055 CR EtherCAT Slave I/O Module with Isolated 8-ch DO and 8-ch DI (RoHS)

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