ECX-DIO8
EtherCAT® Digital I/O-Module

- 8 digital I/Os
- Inputs 24 V, outputs 24 V/0.5 A
- InRailBus

Digital Inputs and Outputs
The ECX-DIO8 module is equipped with 8 digital I/Os, each available as input and output. The nominal I/O-voltage value is 24 V. Nominal output current is 0.5 A at 24 V.

Compact I/O Module
The ECX-DIO8 module provides industrial digital in-/outputs with two-wire connection in combination with service-friendly wiring of supply voltage.

InRailBus
The power supply can be applied via the InRailBus connector (TBUS-connector) integrated in the mounting rail or separately via the clamp-connection.

Physical Interfaces
The 100BASE-TX EtherCAT interface is compatible to IEEE 802.3.

Configuration and protocols
Configuration is done by EtherCAT master (XML file).

Technical Specifications:

<table>
<thead>
<tr>
<th>Process coupling:</th>
<th>Number of digital in/outputs: 8 channels, each selectable as input and output</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDs:</td>
<td>8 LEDs reflecting the DIO pin status</td>
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<tr>
<td>Specification of the digital inputs:</td>
<td>input voltage (nominal value): 24 V over voltage protection up to U_{Vio}</td>
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<tr>
<td>Specification of the digital outputs:</td>
<td>high side power switches, power supply U_{Vio}: nominal 24 VDC, min./max.: 12 VDC / 30 VDC, output current (nom.): 0.5 A (70 °C, 24 V), protection circuit: short circuit and over temperature protection with output shutdown and undervoltage shutdown with auto-restart and hysteresis</td>
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</tbody>
</table>

**EtherCAT slave controller (ESC):**
ESC ASIC: ET1100
ESC interface: 2x RJ45, 100BASE-TX, IEEE 802.3

**General:**
Supply voltage: nom. 24 VDC / 50 mA, min./max.: 12 VDC / 30 VDC
Operating temperature: -20 °C … +70 °C
Humidity: max. 90 % non-condensing
Dimensions: 22.5 mm x 99 mm x 114 mm

**Order information:**
Designation: ECX-DIO8 EtherCAT - digital I/O-Module with 8 channels
Order no.: E.3010.02

All data are subject to change without prior notice.
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