

mvTBI-EBC

EtherCAT Bus Coupler



Features

- Bypass function in case of Power Supply fault
- Bus Connection: RJ45
- No configuration required
- Max number of EtherCAT Bus Terminals: 65535
- Max number peripheral signals: unlimited
- Fully compatible with EtherCAT protocol

Applications

- Process control
- Machine control
- Distributed systems
- Strip chart recorders
- Proportional valves

Overview

The **mvTBI-EBC** module is an EtherCAT Bus Coupler with bypass function in case of Power Supply fault, in order to maintain EtherCAT communication to the other slaves in case of power supply fault.

It interfaces your EtherCAT Master with the other modules of the mvTBI System.

mvTBI-EBC is full compatible with EtherCAT protocol and works with both Twincat System Manager and **Ma.Vi.** EtherCAT Master system, as well as any other EtherCAT Master.

The special hardware design of **mvTBI-EBC** module permits to switch off the power to a part of the mvTBI System while maintaining the communication with other slaves.



Hardware Specifications		Environmental Specifications	
Maximum number of EtherCAT Terminals: 65535		Temperature Operating 0° to 65° C (32° to 149° F) Non operating -40° to 85° C (-40° to 185° F)	
Link type Data transfer medium Ethernet CAT 5 cable Protocol EtherCAT Baud rate 100 Mbaud Bus connection RJ45 Max length between 2 mvTBI-EBC 100 m		Humidity 20 to 95% RH, non-condensing Altitude Operating Sea level to 10,000 ft. (3048m) Non operating Sea level to 40,000 ft. (12192m)	
Power Requirements Voltage 24 V ± 5%, Current 70 mA typ.		Vibration Operating 5 to 2,000 Hz .015" (.38 mm) peak-to-peak displacement 2.5g (maximum) acceleration, Nonoperating 5 to 2,000 Hz .030" (.76 mm) peak-to-peak displacement 5.0 g (maximum) acceleration,	
Power Supplied E-Bus 5 V, 3 A max. Field 24 V ± 5%, 10 A max.		Shock Operating 30 g peak acceleration 11 msec duration Nonoperating 50 g peak acceleration 11 msec duration	
Dimensions Height 99 mm Width 22,5 mm Depth 114,5 mm		EtherCAT Compliance <ul style="list-style-type: none">– IEC 61158-2-12– IEC 61158-3-12– IEC 61158-4-12– IEC 61158-5-12– IEC 61158-6-12– EtherCAT Slave Device Description Documentation	
Mounting On 35mm mounting rail conform to EN 50022		Warranty The mvTBI-EBC carries a one-year warranty.	
		Ordering Information mvTBI-EBC : EtherCAT Bus Coupler	