

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	
Link type		Operating	0° to 65° C (32° to 149° F)
Data transfer medium	Ethernet CAT 5 cable	Non operating	-40° to 85° C (-40° to 185° F)
Protocol	EtherCAT	Humidity	20 to 95% RH, non-condensing
Baud rate	100 Mbaud	Altitude	
Bus connection	RJ45	Operating	Sea level to 10,000 ft. (3048m)
Max length		Non operating	Sea level to 40,000 ft. (12192m)
between 2 mvTBI-EBC	100 m	Vibration	
Power Requirements		Operating	5 to 2,000 Hz
Voltage	24 V ± 5%,		.015" (.38 mm) peak-to-peak displacement
Current	70 mA typ.		2.5g (maximum) acceleration,
Power Supplied		Nonoperating	5 to 2,000 Hz
E-Bus	5 V, 3 A max.		.030" (.76 mm) peak-to-peak displacement
Field	24 V ± 5%, 10 A max.		5.0 g (maximum) acceleration,
Dimensions		Shock	
Height	99 mm	Operating	30 g peak acceleration
Width	22,5 mm		11 msec duration
Depth	114,5 mm	Nonoperating	50 g peak acceleration
			11 msec duration
Mounting		EtherCAT Compliance	
On 35mm mounting rail conform to EN 50022		<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 	
		Warranty	
		The mvTBI-EBC carries a one-year warranty.	
		Ordering Information	
		mvTBI-EBC : EtherCAT Bus Coupler	