



## Description

The **EBIS-TF8** system of the *EBIS IoT product family* enables the connection and evaluation of inductive sensors. In addition to the standard features of the *EBIS product series*, the **EBIS-TF8** unit has **8 half-bridge or 8 LVDT interfaces**. Furthermore to the sensor data acquisition, the system provides a **trigger input** (e.g. for footswitch) or **4 additional independent ADC-Channels (X3 Option)**. Due to the available versions and configuration options, a wide range of different sensors can be used and thus a wide variety of applications can be realized.

## Applications

- Automotive industry
- Machine tool industry
- Medical production measurement
- Optical industry

# EBIS-TF8

## Solid aluminium desktop housing

(optional DIN rail adapter)

### Status LEDs

24 V  
Connected  
Error

### 24 V Power Supply

(3-pin. M16 circular male connector)

### Ethernet

(Standard RJ45)



### X3 Options:

- EBIS-TF8: Trigger-Input for e.g. footswitch
- EBIS-TF8(ADC): 4 independent ADC-Channels

## 8 x inductive transducer interface (HB or LVDT)

(5-pin. M18 circular female connector)

General Specifications	
<b>Power supply</b>	
Nominal voltage	24V DC
Voltage supply	18V - 30V DC
Connector (X1)	3-pin. M16 male connector
<b>Ethernet</b>	
IP-Address	192.168.0.17x (configurable)
Connector (X2)	Standard RJ45 connector (optional: IP68)
<b>Housing</b>	
Aluminium desktop housing	optional: DIN rail adapter
Dimensions (mm)	224 x 150 x 60
<b>Communication interfaces</b>	
TCP/IP	EBIS-Protocol
.NET library	
Web interface	Configuration, Firmware update, etc.
Cloud Support	MQTT, Azure, AWS
<b>Safety features</b>	
Status LEDs	Power supply, network status, error
Encryption protocol	TLS

EBIS-TF8 Specifications <sup>(1)</sup>	
<b>General</b>	
Number of connectors	8 (no Multiplexing)
connectors (1-8)	5-pin. M18 circular female connector
Sensor type	Half-Bridge or LVDT
Type	Single-Ended or differential
Output frequency	Up to 20 kHz
Output amplitude	Up to 20 V <sub>PP</sub>
Features: internal filters, temperature compensation, programmable output frequency and amplitude	
<b>Inputs ADC (X3 Option)</b>	
Number	4 (no Multiplexing)
Input voltage	± 10V (common reference voltage)
Input impedance	Ca. 560 kOhm

<sup>(1)</sup> Specification depends on version

Versions		
Type	Description	Order number
EBIS-TF8(HB)	- 8 x Interface Half-Bridge - X3: Trigger-Input for e.g. footswitch	720
EBIS-TF8(HB/ADC)	- 8 x Interface Half-Bridge - X3: 4 independent ADC-Channels	721
EBIS-TF8(LVDT)	- 8 x Interface LVDT - X3: Trigger-Input for e.g. footswitch	722
EBIS-TF8(LVDT/ADC)	- 8 x Interface LVDT - X3: 4 independent ADC-Channels	723