



EBIS-TF16

Description

The **EBIS-TF16** 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-TF16** unit has **16 half-bridge or 16 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-TF16

Solid aluminium desktop housing

(optional DIN rail adapter)

Status LEDs

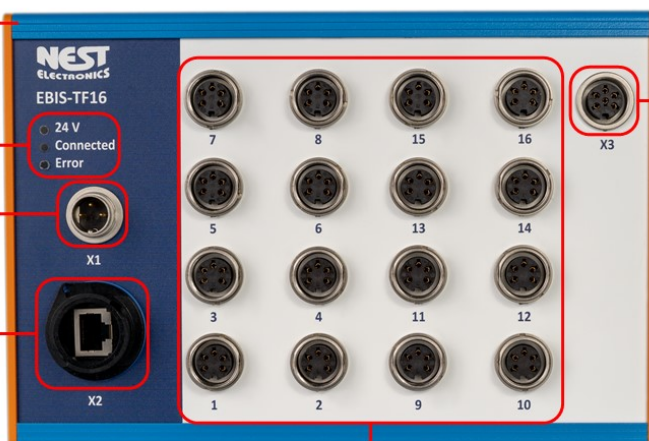
24 V
Connected
Error

24 V Power Supply

(3-pin. M16 circular male connector)

Ethernet

(Standard RJ45)



X3 Options:

- EBIS-TF16: Trigger-Input for e.g. footswitch
- EBIS-TF16(ADC): 4 independent ADC-Channels

16 x inductive transducer interface (HB or LVDT)

(5-pin. M18 circular female connector)

General Specifications

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

EBIS-TF16 Specifications ⁽¹⁾

General	
Number of connectors	16 (no Multiplexing)
Connectors (1-16)	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 _{PP}
Features: internal filters, temperature compensation, programmable output frequency and amplitude	
Inputs ADC (X3 Option)	
Number	4 (no Multiplexing)
Input voltage	± 10V (common reference voltage)
Input impedance	Ca. 560 kOhm

⁽¹⁾ Specification depends on version

Versions

Type	Description	Order number
EBIS-TF16(HB)	- 16 x Interface Half-Bridge - X3: Trigger-Input for e.g. footswitch	740
EBIS-TF16(HB/ADC)	- 16 x Interface Half-Bridge - X3: 4 independent ADC-Channels	741
EBIS-TF16(LVDT)	- 16 x Interface LVDT - X3: Trigger-Input for e.g. footswitch	742
EBIS-TF16(LVDT/ADC)	- 16 x Interface LVDT - X3: 4 independent ADC-Channels	743