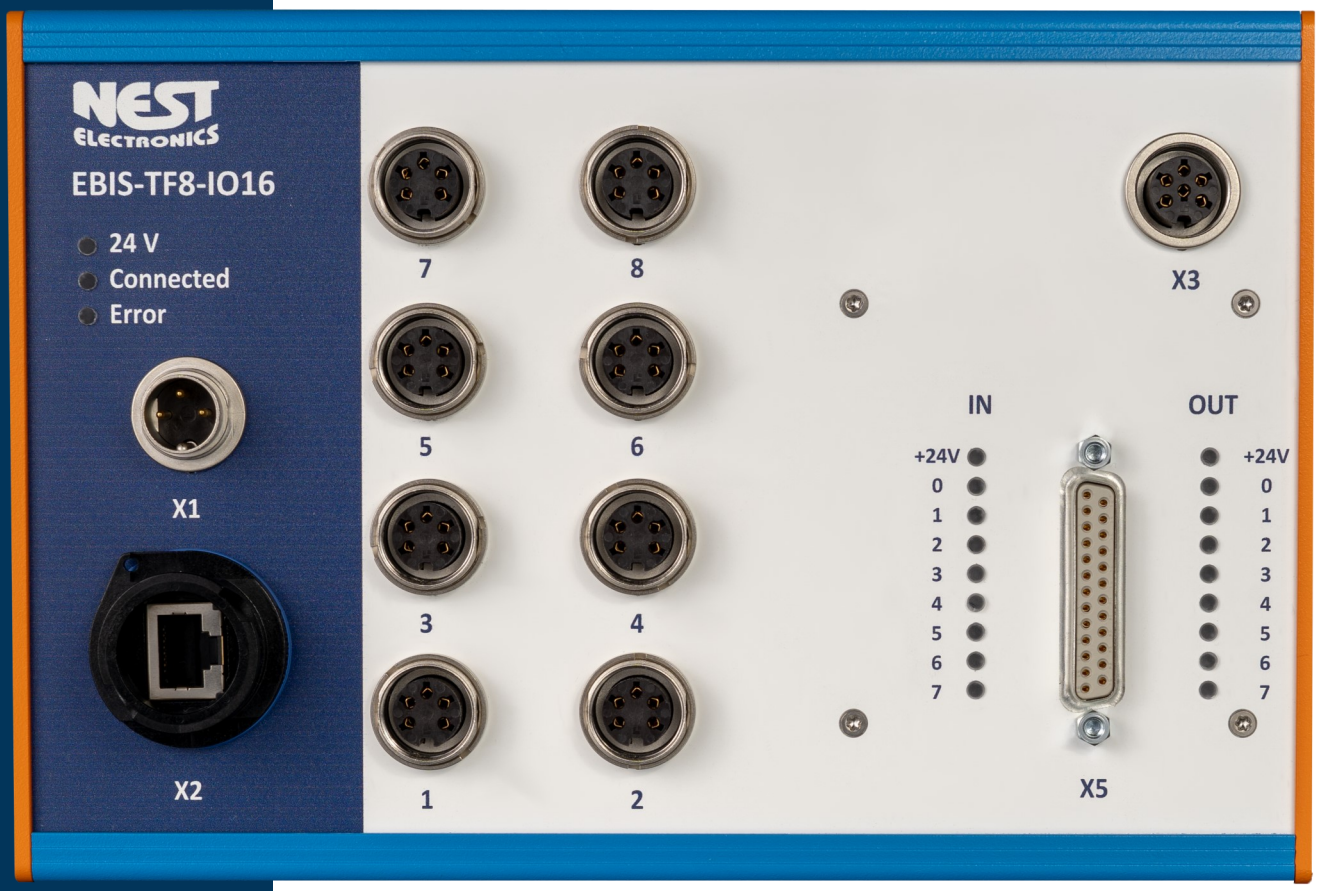

EBIS-TF8-IO16

Description

The **EBIS-TF8-IO16** 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-IO16** 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).** Further, the digital **PLC interface with 8 dig. inputs and 8 dig. outputs** enables the communication with a PLC and control of extensive automated processes. 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

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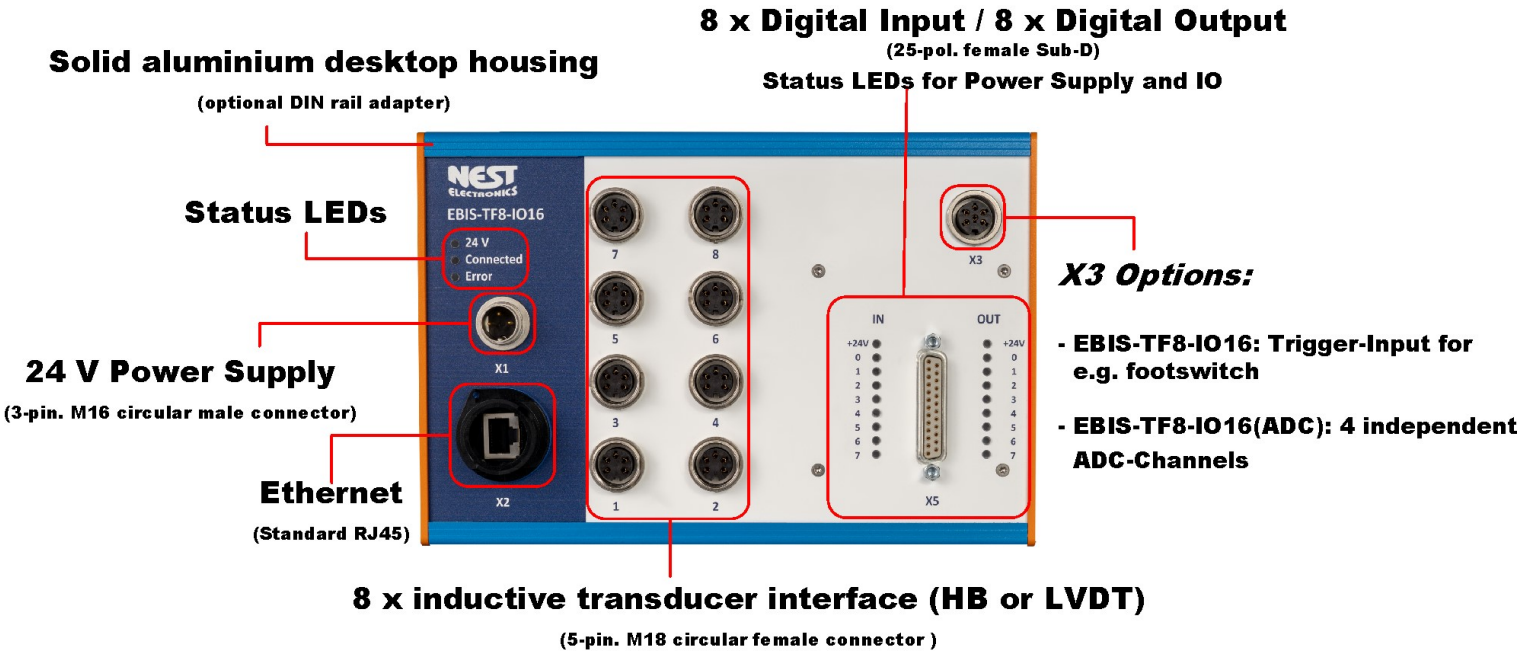
Technical Characteristics

EBIS-TF8-IO16



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

Versions		
Type	***Description***	***Order number***
EBIS-TF8-IO16(HB)	- 8 x Interface Half-Bridge - 8 x Digital Output - 8 x Digital Input - X3: Trigger-Input for e.g. footswitch	730
EBIS-TF8-IO16 (HB/ADC)	- 8 x Interface Half-Bridge - 8 x Digital Output - 8 x Digital Input - X3: 4 independent ADC-Channels	731
EBIS-TF8-IO16 (LVDT)	- 8 x Interface LVDT - 8 x Digital Output - 8 x Digital Input - X3: Trigger-Input for e.g. footswitch	732
EBIS-TF8-IO16 (LVDT/ADC)	- 8 x Interface LVDT - 8 x Digital Output - 8 x Digital Input - X3: 4 independent ADC-Channels	733

EBIS-TF8-IO16 Specifications [1]	
General	
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_{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
Digital Inputs/Outputs	
Number of inputs	8
Galvanic isolation	500 V_{AC}
Nominal voltage (V_{SUPPLY})	24 VDC
Power supply	11 V – 35 V
ESD	2,5 kV HBM JESD22-A114-B 1,5 kV CDM ESD STM5.3.1-1999
Informations: Digital interface IEC61131-2 Type 1, PLC interface, Status LEDs, external power supply needed (V_{SUPPLY} and GND)	
Number of outputs	8
Typ	0,625 A High-Side Switch
Galvanic isolation	500 V_{AC}
Nominal voltage (V_{SUPPLY})	24 VDC
Power supply	11 V – 35 V
ESD	2 kV HBM JESD22-A114-B 1 kV CDM ESD STM5.3.1-1999
Informations: Protected against short to V_{SUPPLY} /overload/overvoltage , PLC interface, for all types of resistive, inductive and capacitive loads, Status LEDs, external power supply needed (V_{SUPPLY} and GND)	

[1] Specification depends on version

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