

E°CONTROL E°UBM-MODULES

The E°UBM fieldbus modules complement the existing E°CONTROL product lines based on the following properties:

- Applicable on Ethernet fieldbuses EtherCAT® and PROFINET, as well as in CANopen® networks
- Wide range of modules incl. safety functionality
- Compact design
- Supports commissioning by tool-free wiring
- UL certification



E°UBM – Bus Couplers and Infrastructure Components



- E°UBM-BK-EC** – EtherCAT®
- E°UBM-BK-CO** – CANopen®
- E°UBM-BK-PN** – PROFINET
- E°UBM-SK13** – EtherCAT® Star Hub with 3 EtherCAT® junctions

- Up to 64 E°UBM modules on one bus coupler
- Web server for administration via USB/network
- Supply of the connected E°UBM modules

E°UBM – Digital Input Modules



- E°UBM-04DI-P** 4 digital 24 V DC inputs
 - Connection of sensors in 2- or 3-wire technology
- E°UBM-04DI-AC** 4 digital 110 – 230 V AC inputs
- E°UBM-08DI-P** 8 digital 24 V DC inputs
 - Connection of sensors in 2-wire technology
- E°UBM-16DI-P, E°UBM-16DI-N** 16 digital 24 V DC inputs p- or n-switching
 - Connection of sensors in 1-wire technology

E°UBM – Digital Output Modules



- E°UBM-04DO-P** 4 digital outputs
 - Each with 500 mA output current at 24 V DC
 - Connection of actuators in 2- or 3-wire technology
- E°UBM-08DO-P** 8 digital outputs
 - Each with 500 mA output current at 24 V DC
 - Connection of actuators in 2-wire technology
- E°UBM-16DO-P, E°UBM-16-DO-N** 16 digital outputs
 - Each with 500 mA output current at 24 V DC, p- or n-switching
 - Connection of actuators in 1-wire technology

E°UBM – Analog Input Modules



- E°UBM-04AI-1x** 4 analog inputs in 2- and 3-wire technology
 - Resolution: 12 bit (E°UBM-04AI-12) or 16 bit (E°UBM-04AI-16)
 - Measuring range: ± 10 V, ± 5 V, 0 ... 10 V, 0 ... 5 V, 2 ... 10 V, 1 ... 5 V, 0 ... 20 mA or 4 ... 20 mA

E°UBM-04AI-16D 4 analog differential inputs in 2-, 3- or 4-wire technology, ranges like E°UBM-04AI-1x

- E°UBM-04AI-R** 4 analog inputs, resistance measurement
 - Resolution: 16 bit
 - Resistance range: 300 Ω to 50 k Ω

E°UBM – Analog Output Module



- E°UBM-04AO** 4 analog outputs in 2- and 4-wire technology
 - Resolution: 16 bit
 - Output range: ± 10 V, ± 5 V, 0 ... 10 V, 0 ... 5 V, 2 ... 10 V, 1 ... 5 V, 0 ... 20 mA or 4 ... 20 mA

E°UBM – Pulse Width Modulation Output Module



E°UBM-02PWM-02 2 pulse width modulated outputs

- Frequency range from 6 Hz to 40 kHz
- Pulse duration from 25 µs to ca. 175 ms

E°UBM – Temperature Measurement Module



E°UBM-04TC 4 analog inputs for thermocouples

- Resolution: 16 bit
- Internal or external cold junction compensation
- Thermocouples type J, K, T, B, N, E, R, S, L, U, C

E°UBM – Counter Modules



E°UBM-01CNT-DO 1 counter 32 bit, max. 100 kHz

- A-/B channel, 1/2/4-fold evaluation or pulse and direction, invertible
- Latch function, gate input, time stamp

E°UBM-02CNT-INC 2 counters, each 32 bit, max. 100 kHz

- A-/B channel, 1/2/4-fold evaluation or pulse and direction, invertible, Time stamp

E°UBM-01CNT-INC 1 counter 32 bit, max. 500 kHz, differential inputs, A-/B-channel or pulse and direction

E°UBM – Communication Modules



E°UBM-01COM-RS 1 serial interface

- Optional RS232, RS485 or RS422 operation

E°UBM-01COM-SIO Connection of external IP67 modules

E°UBM-04COM-IOL I/O-Link master for 4 I/O-Link devices

E°UBM – Potential Distribution Modules



E°UBM-16PD-GI Distribution 0 V DC input current path

E°UBM-16PD-GO Distribution 0 V DC output current path

E°UBM-16PD-PI Distribution 24 V DC input current path

E°UBM-16PD-PO Distribution 24 V DC output current path

E°UBM-16PD-FE Distribution functional earth FE

E°UBM – Power Feed Modules



E°UBM-PS-I Supply input current path 24 V DC

E°UBM-PS-O Supply output current path 24 V DC

E°UBM – Safe I/O Modules for EtherCAT® (FsoE)



E°UBM-44DIO-SE 4 digital inputs and 4 digital outputs each

- Activatable cross circuit detection, 2 channel operation

E°UBM 08DI-B-SE 8 digital inputs

- Activatable cross circuit detection

E°UBM – Safe Power Feed Module



E°UBM-02DI-PS-O-D-S 2 x 2-channel inputs

- No safety controller required
- Switching off subsequent output modules
- Configurable switch-off delay
- Activatable cross circuit detection, 2-channel operation