

Eckelmann

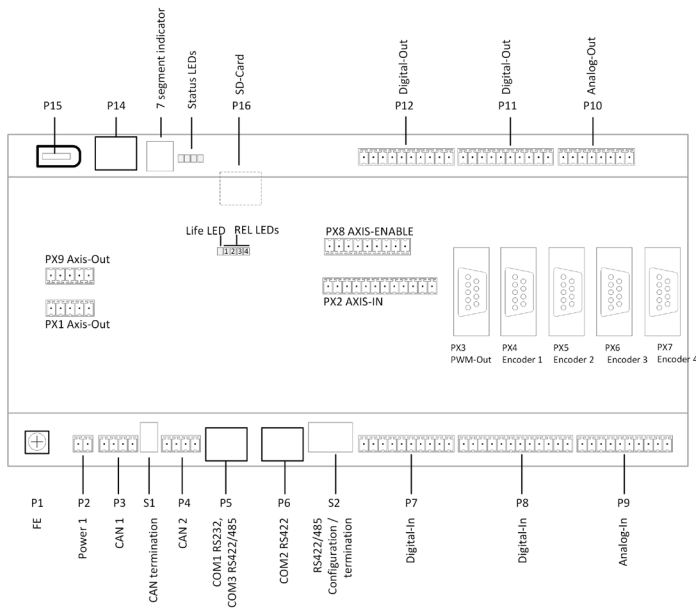
Embedded Controller – E°EXC 882



Special Functional and Performance Features

- All-in-one-solution
Embedded controller with integrated IO-functions for PLC, motion and NC applications
- PLC programming with CODESYS® V3 according to IEC 61131-3
- NC operating system, DIN programming, up to 32 NC and 64 motion axes according to PLCOpen Part I and II (combinable), 6 simultaneously interpolating axes
- NC kernel with extended instruction set and a lot of technology specific additional functions e.g. reverse travel and restart on the contour, tangential tracking
- 20 digital inputs, 16 digital outputs, 4 analog inputs, 4 analog outputs
- 2 galvanic isolated CAN buses (e.g. for CANopen® drives), termination switchable
- Analog axis interface for 4 axes
- Optional: EtherCAT® Master
- OPC UA Server and OPC UA Client for Industry 4.0 connection
- Real-time clock
- Compact design
- Low power consumption
- Programming via RS-232 and Ethernet
- Integrated Web server for web-based visualization
- Also available as an export version (no permit is required due to limitation of 4 simultaneously interpolating axes)
- Optional: memory extension via micro SDHC card slot (up to 32 GByte)
- Optional: prepared for connection of a Safety Controller

Connections for E°EXC 882



- Optional: 2 x CAN-Interface
- Optional: 1 x EtherCAT®
- 3 serial interfaces
- Programming interface Ethernet, RS232
- Digital inputs and outputs
- Analog inputs and outputs
- Analog axis interface for 4 axes
- PWM interface for laser control

Technical Data

Electrical connection

- Power supply

24 V DC nominal, 19.2 V ... 30 V permitted

Interfaces

- CAN1, CAN2
- EtherCAT®
- Ethernet
- Serial interfaces
- Digital inputs and outputs
- Analog inputs and outputs

Optional: 2 x CANopen® port configurable as I/O or drive bus
 Optional: EtherCAT® Master interface, supports Distributed Clocks
 1 x 100Base-TX, 100 Mbit/s
 1 x RS-232, 2 x RS-485/RS422 switchable
 20 x Digital In, 24 V, LED status display, polarity reversal protection
 16 x Digital Out, 24 V, 500 mA, LED status display, short circuit protected
 4 x Analog In, -10 V ... 10 V, differential
 4 x Analog Out, -10 V ... 10 V, single-ended
 4 axes
 Output, differential (RS-422 level)

Data memory

Program memory

Memory extension

Programming interface

Real-time clock

Operating monitoring

256 MByte RAM, 1 MByte CMOS RAM, battery buffered
 1 GByte FLASH
 Optional: internal slot for micro SDHC card (up to 32 GB)
 Ethernet, RS-232 interface with pilot LEDs
 Battery buffered power reserve
 Outputs are turned off by a watchdog in case of an error

General data

- Dimensions (w x h x d)
- Temperature range

Transport/storage:

Operation:

258 x 42 x 128 mm
 -40 °C to +70 °C
 +5 °C to +50 °C
 10 % to 95 %, non-condensing
 IP20

- Relative humidity
- Protection class

Standards and regulations

EC Declaration of Conformity according to

- 2014/30/EU (EMV Directive)
- 2011/65/EU (RoHS Directive)

UK Declaration of Conformity according to

- SI 2016/1091 The Electromagnetic Compatibility Regulations 2016
- SI 2012/3032 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012