EMBEDDED CONTROLLER – ExC55
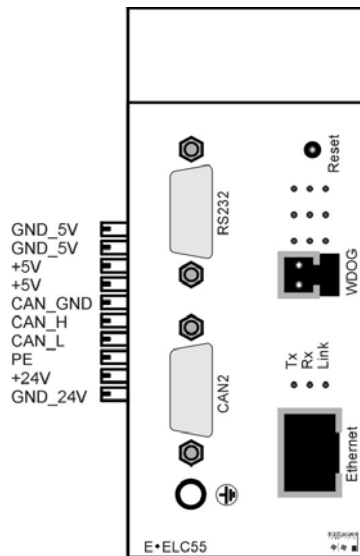

Features

▸ Embedded Controller for PLC, CNC and motion applications

▸ Applications as CNC or motion control with up to 12 NC-axes

▸ High communication support with 2 x CANopen master, 2x RS232C and 1 x Ethernet TCP/IP interface

▸ 960 kByte FLASH program memory and 2 or 4 MByte SRAM data memory, real time clock, Watchdogoutput

▸ Galvanic isolated CAN-Bus on9 pin DSUB connector; protocol 2.0B

▸ Second CAN-Bus on ME-Bus

▸ RS232C / V24 programming interface connections for MMI and modem

▸ Ethernet network connector RJ45
TCP/IP and UDP communication protocol are included

▸ External NT02 or NT03 power modules are necessary to supply the ExC55 and the distributed modules

▸ 6 Pilot- LED's for program status and other userdefined messages

▸ 3 Pilot- LED's for Ethernet with
TX, RX and Link

▸ Ultra compact design

Connection diagram and terminal assignment ExC55

	connections ME-bus
GND_5 V	power supply – ground signal
+5 V	power supply electronic
GND_24 V	sensor supply voltage ground
+24 V	sensor supply
PE	Shield potential
CAN_H	CAN-High-connector CAN1
CAN_L	CAN-Low- connector CAN1
CAN_GND	CAN-Ground CAN1

	connections front-side
RS232	programming interface
CAN2	2. CAN-Interface + 2. RS232
Ethernet	Network connector
WDOG	Watchdog relay contact

Diagram labels: GND_5V, GND_5V, +5V, +5V, CAN_GND, CAN_H, CAN_L, PE, +24V, GND_24V; RS232, Reset, WDOG, CAN2, Tx Rx Link, Ethernet; E·ELC55

Technical specifications

Electrical connection

▸ Power supply: 5 VDC by ME-Bus from add. power module NT02

Interfaces

▸ Internal CAN1-Bus: CANopen port for distributed I/O-modules
▸ External CAN2-Bus: CANopen port for drives, operator panels etc.
▸ Program memory: 960 kByte FLASH
▸ Data memory: 2 MByte SRAM; accu buffered
▸ Programmable:
ELC55: with CoDeSys, IEC 61131-3 compatible
EMC55: additional motion library
ENC55: additional NC-operating system, standard MMI, NC-programming
▸ Programming interface: Ethernet, RS232C interface
▸ Operating monitoring: Watchdog with external relay contact potential free

Housing

▸ Module size: 45 mm
▸ Temperature range: -20°C bis +70°C; transport und storage +0°C bis +50°C; operation
▸ Relative humidity: 5 – 95 %, nicht kondensierend
▸ Protection: IP20
▸ Standards: EC conformation declaration according
  ▸ 89/336/EWG (EMC-standards)
  ▸ 73/23/EWG (low voltage standard)