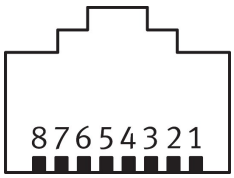
Control unit
CEPE-H8GB-128GB-M1

Part number: 8165401





Data sheet

Feature	Value
Dimensions (W x L x H)	69 mm x 174 mm x 222 mm
Type of mounting	Screw-clamped
Product weight	1.8 kg
Mounting position	Vertical
Ambient temperature	0 °C...50 °C
Note on ambient temperature	Note ambient temperature derating to IEC 61131-2:2018
Storage temperature	-20 °C...70 °C
Relative air humidity	95% Non-condensing
Nominal altitude of use	<= 2000 m ASL (> 79.5 kPa)
Max. installation height	3000 m
Note on max. installation height	< 3000 m ASL (> 70 kPa)
Degree of protection	IP20
Corrosion resistance class CRC	0 - No corrosion stress
Vibration resistance	Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6
Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27
Protection against direct and indirect contact	PELV
LABS (PWIS) conformity	VDMA24364 zone III
CE mark (see declaration of conformity)	To EU EMC Directive In accordance with EU RoHS Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
KC mark	KC-EMV
Approval	RCM
Note on materials	RoHS compliant
Material housing	Die-cast aluminium Makrolon® High-alloy stainless steel
Material screws	Nickel-plated steel
IP address setting	DHCP Static via web server
Field bus, protocol	EtherCAT®

Feature	Value
Field bus, connection type	Socket
Field bus, connection system	RJ45
Field bus interface, transmission rate	100 Mbit/s
Ethernet interface, connection type	Socket
Ethernet interface, protocol	TCP/IP
Ethernet interface, function	Cloud connection Network
Ethernet interface, connection system	RJ45
Ethernet interface, number of pins/wires	8
Ethernet, data transmission rate	1 Gbit/s
Ethernet interface, transmission rate	10 Mbit/s 100 Mbit/s 1000 Mbit/s 1 Gbit/s
Additional functions	2048 I/Os 8 SoftMotion axis + CNC Robotics + FTL (Festo Teach Language) CODESYS V3 with SoftMotion IO-Link® OPC-UA, MQTT WebIQ 1000 tags + 2500 alarms Licences included: Festo AX Controls CODESYS PLC Basic Festo AX Controls CODESYS PLC Standard Festo AX Controls CODESYS PLC Advanced Festo AX Controls CODESYS SoftMotion 4 Festo AX Controls CODESYS SoftMotion 8 Festo AX Controls WebIQ 1000 Festo AX Controls Motion Robotic
CPU data	8 GB RAM Dual core 2.2 GHz
storage medium	SSD 128 GB
Operational voltage range DC	20.4 V...30 V
Nominal operating voltage DC	24 V
Max. power supply	4 A
Power failure bridging	10 ms
Reverse polarity protection	Yes
Buffering time real-time clock	520 Weeks
Flag	128 kB remanent data CODESYS variable concept