

Bus node
CTEU-PN-EX1C
Part number: 8107589

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Protocol	PROFINET
Dimensions W x L x H	40 mm x 91 mm x 50 mm
Width dimension	40 mm
Type of mounting	On electrical interface On electrical sub-base
Product weight	93 g
Ambient temperature	-5 °C ... 50 °C
Storage temperature	-20 °C ... 70 °C
Degree of protection	IP65 IP67
Note on degree of protection	In mounted state Unused connections sealed
Corrosion resistance class (CRC)	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
CE marking (see declaration of conformity)	As per EU EMC directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK RoHS instructions
Certification	RCM compliance mark c UL us - Listed (OL)
Explosion prevention and protection	Class I, Div. 2 (CA) Class I, Div. 2 (US) Class II, Div. 2 (CA) Class II, Div. 2 (US) Zone 0 (BR) Zone 2 (ATEX) Zone 2 (CA) Zone 2 (CN) Zone 2 (IEC-EX) Zone 2 (KR) Zone 2 (UKEX) Zone 2 (US) Zone 22 (ATEX) Zone 22 (BR) Zone 22 (CA) Zone 22 (CN) Zone 22 (IEC-EX) Zone 22 (KR) Zone 22 (UKEX) Zone 22 (US)
ATEX category gas	II 3G
ATEX category for dust	II 3D

Feature	Value
Explosion protection certification outside the EU	Class I, Div. 2 (CA) Class I, Div. 2 (US) Class II, Div. 2 (CA) Class II, Div. 2 (US) Class III (CA) Class III (US) EPL Dc (BR) EPL Dc (CA) EPL Dc (CN) EPL Dc (GB) EPL Dc (IEC-EX) EPL Dc (KR) EPL Dc (US) EPL Ga (BR) EPL Gc (CA) EPL Gc (CN) EPL Gc (GB) EPL Gc (IEC-EX) EPL Gc (KR) EPL Gc (US)
Type of ignition protection for gas	Ex ec IIC Gc X
Type of (ignition) protection for dust	Ex tc IIIC T135°C Dc X
Certificate issuing authority	DNV 23.0350 X/00 IBExU16ATEXB021 X IECEX IBE 19.0018 X KTL 24-KA4BO-0392X KTL 24-KA4BO-0393X KTL 24-KA4BO-0394X KTL 24-KA4BO-0395X NEPSI GYJ19.1188X SITIIAS CCC 202032230700686 UL E239998
Note on materials	RoHS-compliant
Housing material	PA
LED display (product-specific)	PS: operating voltage for electronics and load supply X1: module system status at I-Port 1 X2: module system status at I-Port 2
LED display (bus-specific)	NF: network fault TP1: network active port 1 TP2: network active, port 2
Diagnostics	Communication error System diagnostics Undervoltage
Fieldbus interface, type	Ethernet
Fieldbus interface, protocol	PROFINET RT
Fieldbus interface, function	Bus connection, incoming/forwarding
Fieldbus interface, connection type	2x socket
Fieldbus interface, connection technology	M12x1, D-coded as per EN 61076-2-101
Fieldbus interface, connection pattern	00995716
Fieldbus interface, number of poles/wires	4
Fieldbus interface, galvanic isolation	yes
Fieldbus interface, transmission rate	100 Mbit/s
Max. address capacity inputs	64 byte
Max. address capacity outputs	64 byte
Internal cycle time	1 ms per 1 byte of user data
Configuration support	GSDML file
Additional functions	Conformance class C Fast start-up (FSU) LLDP MRP PROFINET IRT PROFInergy SNMP Shared device Web server

Feature	Value
Power supply, function	Electronics and load
Power supply, type of connection	Plug
Power supply, connection technology	M12x1, A-coded as per EN 61076-2-101
Power supply, connection pattern	00995383
Power supply, number of pins/wires	5
DC operating voltage range	18 V ... 30 V
Nominal operating voltage DC	24 V
Max. power supply	4 A
Intrinsic current consumption at nominal operating voltage	Typ. 80 mA