② 直手承 CPC20PN-T2 bus controller (ControlPlex®)

Description

The CPC20 bus controller is the central communication subassembly of the 18plus-ControlPlex® ELBus® intelligent power distribution system. The CPC20 allows communication with up to 32 double channel ESX60D electronic circuit protectors. It enables read-out of the electronic circuit protectors' status, their corresponding operation data such as the present load current and the load voltage and it enables control and parameterising of the devices.

In addition the CPC20 ensures the connection between the circuit protectors and superordinate control level by means of the integral field bus interface. Its internal ELBus® interface allows realisation of the connection to the power distribution boards and the plugged-in ESX60D electronic circuit protectors. Up to two ELBus® interfaces are available. With an additional ELBus® interface, the bus Controller CPC20 can be used for a second power distribution system type 18plus ControlPlex. The CPC20 allows entire access on all required parameters of the electronic circuit protectors, their control unit and the visualisation of the device data.

This is made available at the field bus interface for the superordinate control unit and also at the RJ45 interface for the operation on site. The USB interface was designed as a service and maintenance interface. The combination of the CPC20 bus controller with the power distribution system 18 plus-ControlPlex® and the plugged in ESX60D electronic circuit protectors offers a fully parameterisable protection of the DC 24 V circuits and ensures the selective overcurrent protection of sensors and actuators, of decentralised peripheral sub-assemblies etc. and their supply cables.

It is therefore ideally suited to the use in machine construction and process control, in the chemical, pharmaceutical and foodstuffs industry, in building automation, steel production and car manufacturing. ControlPlex® reduces wiring time, increases system availability and enhances diagnostic functions.

Suitable for the following types:

Power distribution board Electronic circuit protec18plus-ControlPlex®

ESX60D

(fully parameterisable by means of

CPC20)



Features

- Integral DC24 V power distribution system for power distribution and overcurrent protection
- Complete diagnosis and parameterising of the entire power distribution system
- For ESX60D electronic circuit protector
- Variable configuration of up to 16 two-channel electronic circuit protectors extension
- Variable configuration of up to 32 two-channel electronic circuit protectors with extension
- Fully fledged communication interface PROFINET
- Fully fledged communication interface Ethernet (web server)
- Service and maintenance interface via USB terminal
- Integral memory HISTOMEMO for overload and short-circuit diagnosis of the load circuits

Ease of maintenance, diagnosis and system extension

- Profitability through considerably reduced wiring time
- Reduction of planning, design and installation time

Comliances









Approvals







(In connection with the 18plus, ESX60D modules)

Approvals

Authority	Standard	File-Certificate No.	Voltage ratings
UL	UL 2367	E306740	DC 24 V
UL	UL 508 listed CSA C22.2 No.14	E492388	DC 24 V

Certification

PNO certification: Profinet

Technical data $(T_{amb} = 25 \text{ °C}, U_B = DC24 \text{ V})$

Typical applicatio	ns					
Intelligent DC 24 \	V Power Distribution System					
Supply (XD1)						
Voltage ratings	DC24 V (18 30 V)					
Current ratings	typically= 160 mA (with 1x Ethernet and 2x PROFINET)					
Terminals	4 x push-in terminals (+/+/0V/0V) max. cable cross section rigid0.2 - 2.5 mm ² flexible with wire end ferrule (with plastic sleeve) 0.2 - 2.5 mm ²					
	flexible with wire end ferrule (without plastic sleeve) mm² stripping length 0.2 - 2.5 mm					
ELBus® terminal for connection with the Module						
18plus-ControlPlex® (X2)						
COM-1	Direct connection with 18plus- <i>Control-</i> Plex [®] (no wiring required)					
X2 COM-2	Connection for the second power distribution board 18plus-ControlPlex ® cable length max. 3 m typically H07V-K 1.5 mm² female 16: addressing 15: data line ELBus ® ELB					
Stripping length	9 mm					
USB service and	maintenance interface (X3)					
Х3	service interface type: USB 2.0 type C cable length max. 2.5 m					
PROFINET interface (-XF1, -XF2) with integral switch						
XF1 (port 1)	connection to bus system PROFINET and to web server type: RJ45 When wiring and connecting to the bus system PROFINET the installation and wiring regulations of the PROFIBUS User Organisation (PNO) have to be observed.					
XF2 (port 2)	connection to bus system PROFINET and to web server type: RJ45 When wiring and connecting to the bus system PROFINET the installation and wiring regulations of the PROFIBUS User Organisation (PNO) have to be observed.					
ETHERNET interface (X1)						
X1	communication interface to web server					

type: RJ45

Technical data $(T_{amb} = 25 \text{ °C}, U_B = DC24 \text{ V})$

LED »BF« display of bus error (PROFINET) LED status indication options: red LED »SF« display of system error (PROFINET) LED status indication options: red LED »US1« LED lighted with supply voltage applied LED status indication options: red, green, orange Operating mode Indication options: red, green, orange orange orange orange Bus error Profined OFF Red Green System error OFF Red Green System error OFF Red Green System error OFF Red Green Firmware update blinking red blinking red blinking red LED NKK Ethernet communication activity per port LED status indication options: green Operating mode Indication of operating mode LED LNK Link available Green No link available OFF PROFINET device localisation LED »ACT« Ethernet communication activity per port LED status indication options: yellow Operating mode Indication of operating mode LED ACT No activity OFF Activity available blinking yellow General data Mounting method rail mounting to EN 60715 - 35 x 7.5 Ambient temperature 0 °C +60 °C (without condensation) Mounting temperature -40 °C +70 °C Damp heat 96 hrs/95 % RH 40 °C to IEC 60068-2-78-Cab climate class 3K3 to EN 60721 Housing material polyamide UL94V0 Degree of protection terminals IP2∪ EN60529 EMC Emitted interference: EN 61000-6-3								
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EMC Emitted interference: EN 61000-6-3	Mass							
Noise immunity: EN 61000-6-2	EMC							
Vibration resistance 3 g, test to IEC 60068-2-6 test Fc	Vibration resistance 3 g, test to IEC 60068-2-6 test F			test Fc				

②EFA CPC20PN-T2 bus controller (ControlPlex®)

Order numbering code

Type CPC20 bus controller for 18plus-ControlPlex® with ESX60D Version: Bus system PN PROFINET (connection: 2 x RJ45 female connector) Version – number of power distribution boards to be connected T2 optional connection of two 18plus-ControlPlex® power distribution systems Product versions 001 marking CPC20 PN - T2 - 001 ordering example

Notes

- The CPC20 is only intended for use with safety extra-low voltage (=24V DC).
- Connection to a higher or not reliably disconnected voltage can cause hazardous conditions or damages
- The 18plus-ControlPlex® power distribution system must exclusively be used.
- The technical data of the used circuit protectors have to be observed
- The entire power distribution system must only be installed by qualified personnel
- Only after expert installation must the device be supplied with power.
- After tripping of the circuit breaker/protector and reset, the cause of the failure (short circuit or overload) must be remedied.
- The national standards (e.g. for Germany DIN VDE 0100) have to be observed for installation and selection of feed and return cables.
- 0 V potential for load and control voltage is mandatory.
- 0 V ptential load and control voltage connected
- For convenient adjustment and configuration by means of projecting software a master data file (GSDML file) will be made available for downloading on the E-T-A homepage
- The CPC20 has a direct and fixed connection between the housing shield of the RJ45 connectors (XF1, XF2 and X1) and the 0 V of XD1.
- Please observe the separate user manual for CPC20.

Safety Note



Caution:

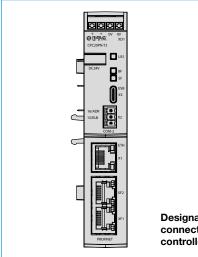
Electrostatically sensitive sub-assemblies can be destroyed by voltages far below the human perception threshold. These voltages already occur if you touch a component or electrical terminals of

a sub-assembly without being electrostatically discharged. The damage of a sub-assembly caused by an overvoltage is often not immediately recognised, but will be noticed only after a longer operating time.

All information and data given on our products are accurate and reliable to the best of our knowledge, but E-T-A does not accept any responsibility for the use in applications which are not in accordance with the present specification. E-T-A reserves the right to change specifications at any time in the interest of improved design, performance and cost effectiveness, Dimensions are subject to change without notice. Please enquire for the latest dimensional drawing with tolerances if required. All dimensions, data, pictures and descriptions are for information only and are not binding. Amendments, errors and omissions excepted. Ordering codes of the products may differ from their marking.

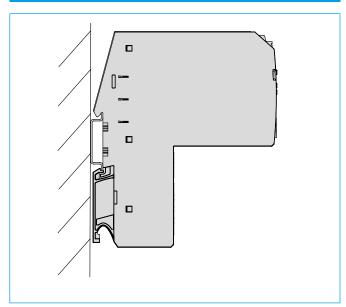
②EFA CPC20PN-T2 bus controller (*ControlPlex*®)

Terminal selection

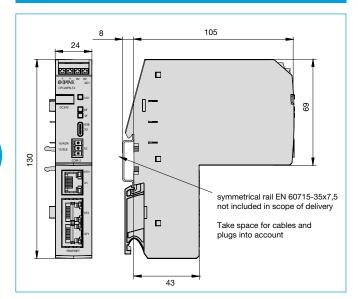


Designation of the connectors of the bus controller CPC20

Mounting position

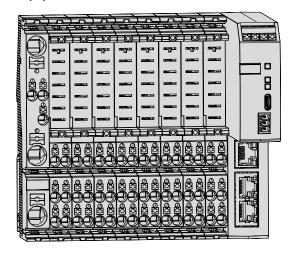


Dimensions of CPC20 bus controller

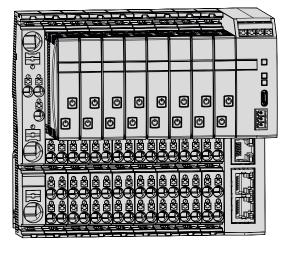


Wiring diagram

CPC20 bus controller and 18plus ControlPlex® unpopulated



CPC20 bus controller and 18plus *ControlPlex*® populated with ESX60D



Accessories

3-pole terminal strip FK-MCP 1.5/3-ST-3 (X52 COM2) Y31154801

