Control block CPX-CM-HPP

FESTO



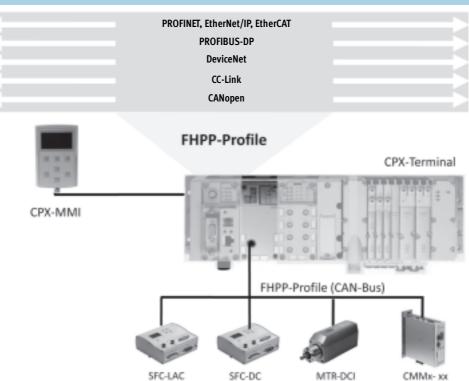
Key features

New options for controlling drive technology

The control block CPX-CM-HPP makes all of Festo's electric drive technology compatible with all industrial communication interfaces.

CPX-CM-HPP is controlled using a CPX bus node by a higher-level controller or front end controller in the CPX terminal.

Communication with the drives is standardised via the Festo Handling and Positioning Profile (FHPP). The control component is therefore independent of the bus node used. A maximum of four individual electric axes can be connected via CAN bus.



Advantages for users

More options

All electric drives from Festo can be controlled via the CPX terminal using the control block CPX-CM-HPP.

The control block therefore offers a simple, flexible and cost-effective way



Note

of controlling individual axes.

Choose the control block CPX-CMXX for coordinated multi-axis movements.

Simple

- No programming required.
- Quick configuration and diagnostics via the operator unit CPX-MMI.
- Easy control of electric drives via CAN bus with the Festo Handling and Positioning Profile (FHPP).

Flexible

- Compatibility with all control systems via the bus node of the CPX terminal.
- All electric drive systems from Festo are uniformly controlled with FHPP.

Cost-effective

CPX-CM-HPP offers a cost-effective fieldbus interface via CAN bus for up to four electric axes.

 Cost advantages compared with I/O solutions in systems with as few as two electric axes.

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Technical data

programmed.

The control block CPX-CM-HPP is a module in the CPX terminal for controlling electric drives.
The control component is independent of the bus node used. This means that Festo's electric drive technology is compatible with all industrial communication interfaces.
The control block does not need to be

- Max. 4 individual electric axes can be controlled via CAN bus
- No programming required
- Standardised communication with the drives via the Festo Handling and Positioning Profile (FHPP)
- Quick configuration and diagnostics via the operator unit CPX-MMI
- Simple, flexible and cost-effective



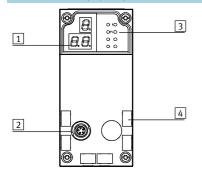
General technical data					
Fieldbus interface		1x socket M9, 5-pin			
Protocol		FHPP			
Max. address volume for inputs [byte]		32			
Max. address volume for outputs	[byte]	32			
LED display (product-specific)		Error: Error			
		PL: Power supply			
Device-specific diagnostics		Diagnostic memory			
		Channel and module-oriented diagnostics			
		Undervoltage/short circuit of modules			
Parameterisation		Forcing of channels			
		System parameters			
Configuration support		Operator unit CPX-MMI			
Total number of axes		4			
Nominal operating voltage	[V DC]	24			
Operating voltage range	[V DC]	18 30			
Power failure buffering	[ms]	10			
Intrinsic current consumption	[mA]	Typically 80			
at nominal operating voltage					
Protection class to EN 60529		IP65/IP67			
(plug connector plugged in)					
Dimensions W x L x H	[mm]	50 x 107 x 55			
(incl. interlinking block)					
Product weight [g]		140			
(without interlinking block)					
Materials					
Housing		PA, reinforced			
		PC			
Note on materials		RoHS-compliant			

Technical data – Interfaces				
Interface				
Control interface CAN-Bus				
Baud rate	[Mbps]	1		

Operating and environmental conditions					
Ambient temperature [°C] -5 +50					
Storage temperature [°C] -20 +70					
CE mark (see declaration of conformity) To EU Low Voltage Directive					

Technical data

Connection and display components



- 1 3-digit display
- 2 Control interface
- 3 LED display, product-specific
- 4 Inscription labels

Pin allocation – Control interfa	ice			
	Pin	Signal	Meaning	
Plug M9, 5-pin				
2 0 0 4	1	n.c.	Not connected	
	2	n.c.	Not connected	
	3	CAN_GND	CAN ground	
	4	CAN_H	CAN high	
	5	CAN_L	CAN low	
	Housing	Screened	Cable screen must be connected to functional earth (FE)	

Permitted bus nodes/FEC					
Bus node/FEC	Protocol	Max. no. of CPX-CM-HPP modules			
CPX-FEC	-	2			
CPX-CEC	-	0			
CPX-CEC-C1	-	0			
CPX-CEC-M1	-	0			
CPX-FB6	INTERBUS	0			
CPX-FB11	DeviceNet	2			
CPX-FB13	PROFIBUS-DP	2	2		
CPX-FB14	CANopen	1			
CPX-M-FB20	INTERBUS	0			
CPX-M-FB21	INTERBUS	0			
CPX-FB23-24	CC-Link	1 (function module F23)			
		0 (function module F24)			
CPX-FB32	EtherNet/IP	2			
CPX-FB33	PROFINET, M12	2			
CPX-M-FB34	PROFINET, RJ45	2			
CPX-M-FB35	PROFINET, SCRJ	2			
CPX-FB36	EtherNet/IP	0			
CPX-FB38	EtherCAT	2			

Ordering data						
Designation		Part No.	Туре			
THE PARTY OF THE P	Control block	562214	CPX-CM-HPP			

Control block CPX-CM-HPP



Accessories

Ordering data – Bus connection					
Designation		Cable length [m]	Part No.	Туре	
	Connecting cable	2	563711	NEBC-M9W5-K-2-N-LE3	
		5	563712	NEBC-M9W5-K-5-N-LE3	
	Plug for CAN bus interface, Sub-D, 9-pin, without terminating resistor		533783	FBS-SUB-9-WS-CO-K	
The state of the s	Inscription label holder for manifold block		536593	CPX-ST-1	

Documentation	Documentation						
Designation	Language	Part No.	Туре				
Name of the last		German	568683	P.BE-CPX-CM-HPP-DE			
		English	568684	P.BE-CPX-CM-HPP-EN			
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