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Key features

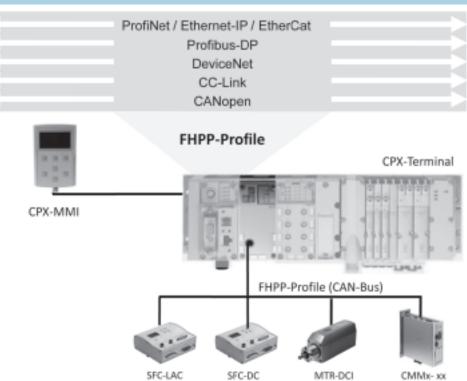
New options for controlling drive technology

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 fieldbus 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 fieldbus 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 of controlling individual axes.

Note

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 fieldbus 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.



Technical data

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The control block CPX-CM-HPP is a module in the CPX terminal for controlling electric drives.

The control component is independent of the fieldbus 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 programmed.

- 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				
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		
(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		The second		
Housing		PA, reinforced		
		PC		
Note on materials		RoHS-compliant		



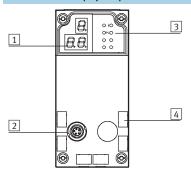
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Technical data

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	

Connection and display components



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

Pin allocation – Control interface			
	Pin	Signal	Meaning
Plug M9, 5-pin			
2 0 0 0 5	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)

Permissible CPX modules				
CPX module	Protocol	Remarks		
CPX-FEC	-	Revision 16 (R16) and above		
CPX-CEC	-	In preparation		
CPX-FB6	Interbus	Not available		
CPX-FB11	DeviceNet	Revision 22 (R22) and above		
CPX-FB13	Profibus DP	Revision 23 (R23) and above		
CPX-FB14	CANopen	Revision 24 (R24) and above		
CPX-FB23	CC-Link	In preparation		
CPX-FB32	Ethernet/IP	In preparation		
CPX-FB33, FB34, FB35	ProfiNet	In preparation		
CPX-FB38	EtherCAT	In preparation		

Ordering data			
Designation		Part No.	Туре
	Control block	562214	CPX-CM-HPP





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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	
	Inscription label holder for manifold block		536593	CPX-ST-1	

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

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components Complete custom engineered solutions



Custom Control Cabinets Comprehensive engineering support and on-site services



Complete Systems Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical Electromechanical actuators, motors, controllers & drives



Pneumatics Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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