



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 inde-

pendent of the fieldbus node used. A maximum of four individual electric axes can be connected via CAN bus.



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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. Simple

• No programming required.

• Quick configuration and diagnos-

• Easy control of electric drives via

CAN bus with the Festo Handling

and Positioning Profile (FHPP).

tics via the operator unit CPX-MMI.

- 📱 - Note

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

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.

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Control block CPX-CM-HPP

Technical data

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		
Housing		PA, reinforced
		PC
Note on materials		RoHS-compliant



Technical data

Technical data – Interfaces					
Interface	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
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2 Control interface

3 LED display, product-specific

4 Inscription labels

Pin allocation – Control interface					
	Pin	Signal	Meaning		
Plug M9, 5-pin					
3	1	n.c.	Not connected		
$2 \sqrt{9} \sqrt{4}$	2	n.c.	Not connected		
	3	CAN_GND	CAN ground		
1-4-5	4	CAN_H	CAN high		
	5	CAN_L	CAN low		
	Housing	Screened	Cable screen must be connected to functional earth (FE)		

Permissible CPX modules

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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. Type

 Control block
 562214
 CPX-CM-HPP

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Accessories

Ordering data – Bus connection				
Designation	Designation		Part No.	Туре
	Connecting cable	2	563711	NEBC-M9W5-K-2-N-LE3
V <i>P</i>		5	563712	NEBC-M9W5-K-5-N-LE3
	Plug for CAN bus interface, Sub-D, 9-pin, without terminating resistor			FBS-SUB-9-WS-CO-K
A diaman	Inscription label holder for manifold block		536593	CPX-ST-1

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