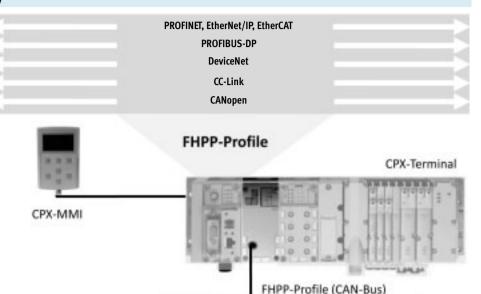


Key features

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 of controlling individual axes.

Simple

- No programming required.
- Quick configuration and diagnostics via the operator unit CPX-FMT.
- 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.

SFC-DC

• All electric drive systems from Festo are uniformly controlled with FHPP.

Cost-effective

MTR-DCI

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

CMMx-xx

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

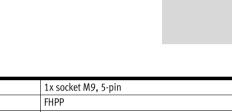
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Technical data

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

General technical data Fieldbus interface

- 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



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		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

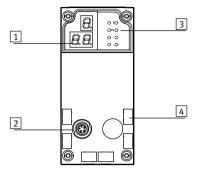
Operating and environmental conditions Ambient temperature [°C] -5 ... + 50 Storage temperature [°C] -20 ... + 70 CE mark (see declaration of conformity) To EU Low Voltage Directive



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Technical data

Connection and display components



3-digit display
 Control interface
 LED display, product-specific

4 Inscription labels

Pin allocation – Control interface

	Pin	Signal	Meaning
Socket M9, 5-pin			
3	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/CEC

Permitted bus nodes/CEC				
Bus node/CEC	Protocol	Max. no. of CPX-CM-HPP modules		
CPX-CEC	-	0		
CPX-FB6	INTERBUS	0		
CPX-FB11	DeviceNet	2		
CPX-FB13	PROFIBUS	2		
CPX-FB14	CANopen	1		
CPX-M-FB21	INTERBUS	0		
CPX-FB23-24	CC-Link	1 (function module F23)		
		0 (function module F24)		
CPX-FB33	PROFINET RT, M12	2		
CPX-M-FB34	PROFINET RT, RJ45	2		
CPX-M-FB35	PROFINET RT, SCRJ	2		
CPX-FB36	EtherNet/IP	2		
CPX-FB37	EtherCAT	2		
CPX-FB39	Sercos III	2		
CPX-FB40	POWERLINK	2		
CPX-M-FB41	PROFINET RT	2		

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Accessories

Ordering data			
Designation		Part No.	Туре
Control block			
	Max. 4 individual electric axes can be controlled via CAN bus	562214	СРХ-СМ-НРР

Ordering data – Bus connection

		Part No.	Туре
Connecting cable	2 m	563711	NEBC-M9W5-K-2-N-LE3
	5 m	563712	NEBC-M9W5-K-5-N-LE3
Plug for CAN bus interface,		533783	FBS-SUB-9-WS-CO-K
Sub-D, 9-pin, without terminating resistor			
Inscription label holder for manifold block		536593	CPX-ST-1
Manual – Control block CPX-CM-HPP	German	568683	CPX-CM-HPP-DE
	English	568684	CPX-CM-HPP-EN
	Plug for CAN bus interface, Sub-D, 9-pin, without terminating resistor	5 m Plug for CAN bus interface, Sub-D, 9-pin, without terminating resistor Inscription label holder for manifold block	5 m 563712 Plug for CAN bus interface, Sub-D, 9-pin, without terminating resistor 533783 Inscription label holder for manifold block 536593 Manual – Control block CPX-CM-HPP German 568683

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