

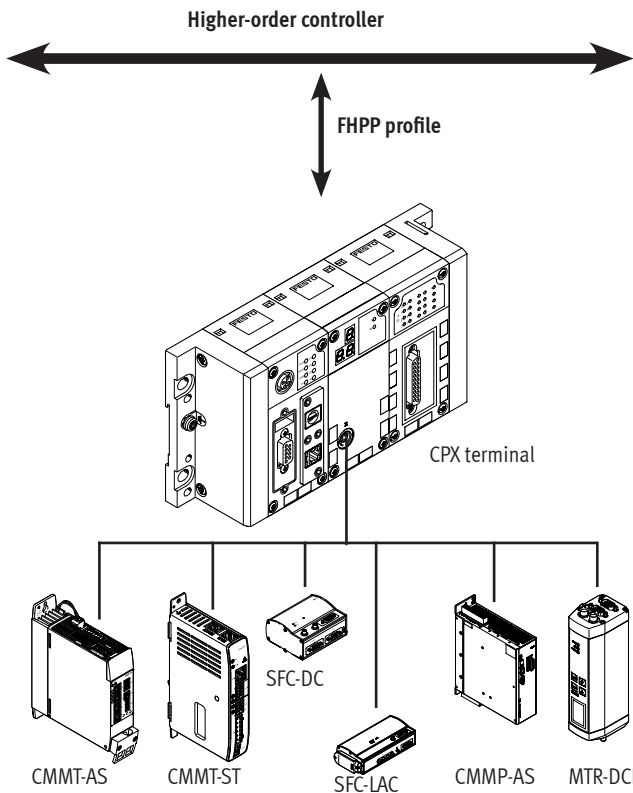
Control block CPX-CM-HPP

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-order controller or via a 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 4 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.

Easy

- No programming required.
- Quick configuration and diagnostics via 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.
- All electric drive systems from Festo are uniformly controlled with FHPP.

Cost effective

The CPX-CM-HPP offers a cost-effective fieldbus interface via CAN bus for up to 4 electric axes.

- Cost advantages compared with I/O solutions even for systems with just 2 electric axes.

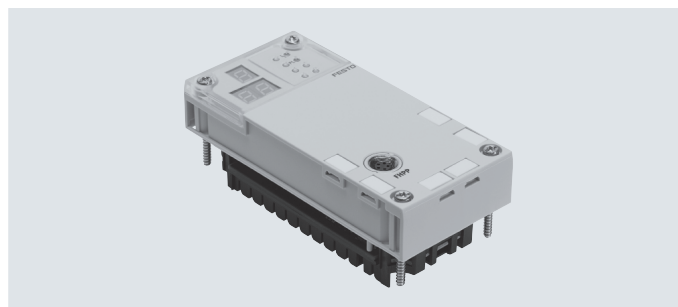
Datasheet

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.

- 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 CPX-FMT
- Simple, flexible and cost-effective



General technical data		
Fieldbus interface		1x socket M9, 5-pin
Protocol		FHPP
Max. address volume inputs	[byte]	32
Max. address volume for outputs	[byte]	32
LED display (product-specific)		Error PL: Load supply
Device-specific diagnostics		Diagnostics memory Channel and module-oriented diagnostics Undervoltage/short circuit of modules
Parameterisation		Forcing of channels System parameters
Configuration support		MMI handheld terminal
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 at nominal operating voltage	[mA]	Typically 80
Degree of protection		IP65 IP67
Dimensions W x L x H (including interlinking block)	[mm]	50 x 107 x 55
Product weight (without interlinking block)	[g]	140

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

Materials		
Housing		Reinforced PA PC
Note on materials		RoHS-compliant
LABS (PWIS) conformity		VDMA24364-B2-L

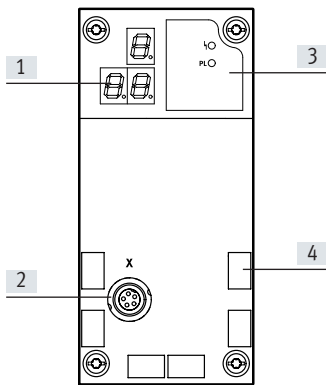
Operating and environmental conditions		
Ambient temperature	[°C]	-5 ... +50
Storage temperature	[°C]	-20 ... +70
CE marking (see declaration of conformity) ¹⁾		To EU Low Voltage Directive

¹⁾ For information about the area of use, see the EC declaration of conformity at: www.festo.com/catalogue/... → Support/Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Datasheet

Connection and display components



- [1] 3-digit display
- [2] Control interface
- [3] LED display (product-specific)
- [4] Inscription labels

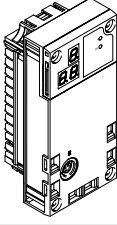
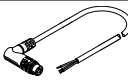
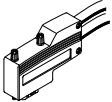
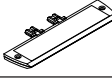

Pin allocation – Control interface

	Pin	Signal	Meaning
Socket M9, 5-pin			
	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	Shielding	Cable shield must be connected to functional earth (FE)

Permitted bus nodes/CEC

Bus node/CEC	Protocol	Max. number 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-FB23-24	CC-Link	1 (as function module F23) 0 (as 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-FB43	PROFINET RT, M12	2
CPX-M-FB44	PROFINET RT, RJ45	2
CPX-M-FB45	PROFINET RT, SCRJ	2

Accessories

Ordering data		Part no.	Type	
Designation				
Control block				
	For controlling up to 4 electric drives via CAN bus	562214	CPX-CM-HPP	
Ordering data – Bus connection				
Designation		Part no.	Type	
Connecting cable				
	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; Sub-D, 9-pin, without terminating resistor	533783	FBS-SUB-9-WS-CO-K	
Inscription labels				
	Inscription label holder for connection block	536593	CPX-ST-1	
User documentation				
	Manual – Control block CPX-CM-HPP	German	568683	CPX-CM-HPP-DE
		English	568684	CPX-CM-HPP-EN

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1 Festo Inc.
5300 Explorer Drive
Mississauga, ON L4W 5G4
Canada

Festo Customer Interaction Center
Tel: 1 877 463 3786
Fax: 1 877 393 3786
Email: customer.service.ca@festo.com



2 Festo Pneumatic
Av. Ceylán 3,
Col. Tequesquináhuac
54020 Tlalnepantla,
Estado de México

Multinational Contact Center
01 800 337 8669
ventas.mexico@festo.com



3 Festo Corporation
1377 Motor Parkway
Suite 310
Islandia, NY 11749

Festo Customer Interaction Center
1 800 993 3786
1 800 963 3786
customer.service.us@festo.com



4 Regional Service Center
7777 Columbia Road
Mason, OH 45040

Connect with us



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Subject to change