Control block CPX-CM-HPP

FESTO



Key features

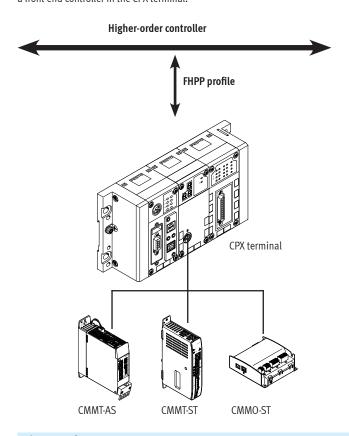
New options for controlling drive technology

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.

Single

- 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.

Low cost

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 with systems having just 2 electric axes.

Data sheet

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



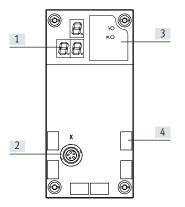
General technical data		
Fieldbus interface		1x socket M9, 5-pin
Protocol		FHPP
Max. address capacity inputs	[byte]	32
Max. address volume outputs	[byte]	32
LED display (product-specific)		Error
		PL: Power supply
Device-specific diagnostics		Diagnostic memory
		Channel and module-oriented diagnostics
		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]	1830
Mains buffering	[ms]	10
Intrinsic current consumption at nominal	[mA]	Typically 80
operating voltage		
Degree of protection to EN 60529		IP65/IP67
(plug connector plugged in)		
Dimensions W x L x H	[mm]	50 x 107 x 55
(including interlinking block)		
Product weight	[g]	140
(without interlinking block)		
Materials		
Housing		Reinforced PA
		PC
Note on materials		RoHS-compliant 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 marking (see declaration of conformity)		To EU Low Voltage Directive

Data sheet

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				
/3	1	n.c.	Not connected	
2 4	2	n.c.	Not connected	
10 0	3	CAN_GND	CAN ground	
\o o _	4	CAN_H	CAN high	
	5	CAN_L	CAN low	
	Housing	Shield	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-M-FB21	INTERBUS	0			
CPX-FB23-24	CC-Link	1 (as function module F23)	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-M-FB41	PROFINET RT	2			
CPX-FB43	PROFINET RT, M12	2			
CPX-M-FB44	PROFINET RT, RJ45	2			

Accessories

Ordering data Designation		Part no.	Туре
Control block			
3	For actuating up to 4 electric drives via CAN bus	562214	CPX-CM-HPP

Ordering data – Bus connection					
Designation			Part no.	Туре	
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,		533783	FBS-SUB-9-WS-CO-K	
	Sub-D, 9-pin, without terminating resistor				
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	

Festo - Your Partner in Automation





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