

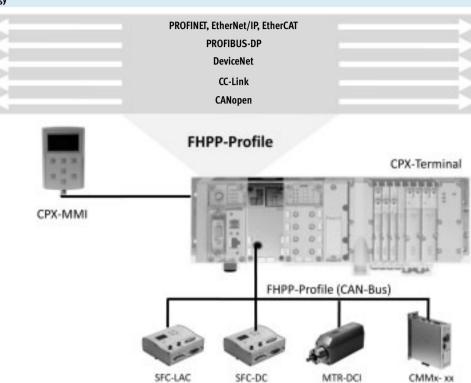
Key features

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-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 bus 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.

FESTO

Technical data

programmed.

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

- 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				
Fieldbus interface		1x socket M9, 5-pin		
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, 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		

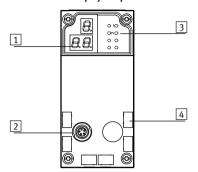
Technical data – Interfaces		
Interface		
Control interface		CAN-Bus
Baud rate	[Mbps]	1

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



Technical data

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 4 1 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)	

Permitted bus nodes/FEC			
Bus node/FEC	Protocol	Max. no. of CPX-CM-HPP modules	
CPX-FEC	-	2	
CPX-CEC	-	0	
CPX-FB6	INTERBUS	0	
CPX-FB11	DeviceNet	2	
CPX-FB13	PROFIBUS	2	
CPX-FB14	CANopen	1	
CPX-M-FB20	INTERBUS	0	
CPX-M-FB21	INTERBUS	0	
CPX-FB23-24	CC-Link	1 (function module F23)	
		0 (function module F24)	
CPX-FB32	EtherNet/IP	2	
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-FB38	EtherCAT	2	
CPX-FB39	Sercos III	2	
CPX-FB40	POWERLINK	2	
CPX-M-FB41	PROFINET RT	2	



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 o	connection			
Designation				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 label				
Alexander	Inscription label holder for manifold block			CPX-ST-1
Documentation				
	Manual – Control block CPX-CM-HPP	German	568683	P.BE-CPX-CM-HPP-DE
		English	568684	P.BE-CPX-CM-HPP-EN