



Key features

Co-ordinated movement of multiple electrical axes

The control block CPX-CMXX is an intelligent module in the CPX terminal for controlling electric drive units from Festo.

Both individual axis movements and co-ordinated movements can be controlled via CAN bus. Cartesian kinematic systems are supported. With just a small number of control signals from a higher-order controller or a control unit in the CPX terminal, the control block co-ordinates the entire motion sequence. Two axes groups with max. four axes per group can be controlled.

Advantages for users Simple, yet efficient

CPX-CMXX provides a PLC-compatible interface for multi-dimensional axis control within the CPX system. This is achieved physically via various fieldbus nodes for easy adaptation to the general control technology.

Convenient

- The control block does not have to be programmed, but instead receives the sequence via parameterisation or teach-in.
- Easy application configuration with the Festo Configuration Tool (FCT).
- There are 1024 position sets available per axes group.
- Operating function in the FCT for commissioning without connection to the controller.
- Preliminary test of the application is possible without controller.

Flexible

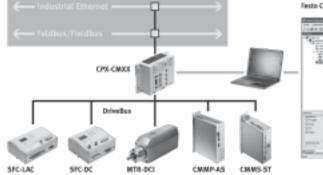
Different operating modes guarantee universal use of the control block.

- Record Select mode: the user can simply select the record number of the position set and the control block takes care of the motion sequence.
- Direct mode: with the higher-order controller, position values, speed and acceleration are assigned to the individual axes and loaded in a selected position set. The position set is executed as in Record Select mode.

Optimised

Co-ordinated movement in conjunction with the CPX-CMXX means:

- Synchronous movement: the values for movement of the axes are calculated so that the axes reach their destination simultaneously.
- Linking: position sets can be executed in sequence without an additional start signal.



FCT Festo Configuration Tool



Technical data

The control block CPX-CMXX is an intelligent module in the CPX terminal for controlling electric drive units. Individual axis and simple multi-axis applications can easily be implemented. Programming is not necessary.

Configuration, parameterisation and commissioning of the application is easily achieved with the Festo Configuration Tool (FCT).

- Configuration of two axes groups with up to four axes each is possible
- There are 1024 position sets available per axes group
- Input or Teach-In of positions in specified set structure
- Parameterisation via Ethernet
- Communication protocol: FHPP-MAX, Festo handling and positioning profile for multi-axis movements.
- Control of drive units via CANopen



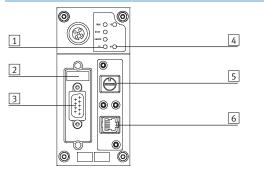
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Housing Reinforced polyamide, polycarbonate	Product weight	[g]	155		
Housing Reinforced polyamide, polycarbonate	Materials				
Note on materials RoHS-compliant	Housing		Reinforced polyamide, polycarbonate		
	Note on materials		RoHS-compliant		

Technical data

Technical data – Interfaces						
Ethernet						
Ethernet interface Socket RJ45, 8-pin, for configuration only						
Interface						
Control interface		CAN bus				
Baud rate	[Mbit/s]	1	-			

Operating and environmental conditions			
Ambient temperature	[°C]	-5 +50	
Storage temperature	[°C]	-20 +70	

Connection and display components



1 LED display, bus-specific

2 DIL switch3 Control interface

(plug, Sub-D, 9-pin)

4 LED display, product-specific

5 16-position rotary switch

- (RUN/STOP)
- 6 Ethernet interface (RJ45, socket, 8-pin)

Pin allocation – Control interface								
	Pin	Signal	Meaning					
Sub-D plug	Sub-D plug							
	1	n.c.	Not connected					
(+ 1)	2	CAN_L	CAN low					
6 + 2	3	CAN_GND	CAN ground					
7 + 3	4	n.c.	Not connected					
8 + 4	5	CAN_SHLD	Connection to functional earth (FE)					
((9 + 5))	6	CAN_GND	CAN ground (optional) ¹⁾					
	7	CAN_H	CAN high					
	8	n.c.	Not connected					
	9	n.c.	Not connected					
	Housing	Screened	Plug housing must be connected to FE					

1) If a drive controller is connected to an external power supply, CAN ground (optional), pin 6, cannot be used on the CPX-CMXX.

Technical data

Pin allocation – Ethernet interface					
	Pin	Signal	Meaning		
Plug RJ45					
	1	TD+	Transmitted data+		
	2	TD-	Transmitted data-		
	3	RD+	Received data+		
8	4	n.c.	Not connected		
	5	n.c.	Not connected		
	6	RD-	Received data-		
	7	n.c.	Not connected		
	8	n.c.	Not connected		
	Housing	Screened	Screened		

Ordering data						
Designation		Part No.	Туре			
	Control block	555667	СРХ-СМХХ			

Accessories

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Ordering data – Bus connection					
Designation		Part No.	Туре		
	Sub-D plug, 9-pin	532219	FBS-SUB-9-BU-2x5POL-B		
	Bus connection, plug 2xM12, 5-pin	525632	FBA-2-M12-5POL		
	Plug socket for fieldbus connection, M12, 5-pin	18324	FBSD-GD-9-5POL		
	Plug M12, 5-pin	175380	FBS-M12-5GS-PG9		
Contraction of the second seco	Bus connection, 5-pin	525634	FBA-1-SL-5POL		
- BEERE	Bus connection, screw terminal, 5-pin	525635	FBSD-KL-2x5POL		
	Plug RJ45, 8-pin	534494	FBS-RJ45-8-GS		
	Cover for RJ45 connection	534496	AK-RJ45		
	Inspection cover, transparent for plug/socket Sub-D	533334	AK-SUB-9/15-B		
	Cover for plug/socket Sub-D	557010	AK-SUB-9/15		
and the second s	Inscription label holder for connection block	536593	CPX-ST-1		

Documentation	Documentation						
Designation	Language	Part No.	Туре				
	Description of control block CPX-CMXX	German	564221	P.BE-CPX-CMXX-DE			
		English	564222	P.BE-CPX-CMXX-EN			
	Description of Festo handling and positioning profile	German	564223	P.BE-CMXX-FHPP-SW-DE			
\sim	for multi-axis movements FHPP-MAX	English	564224	P.BE-CMXX-FHPP-SW-EN			

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components Complete custom engineered solutions



Custom Control Cabinets Comprehensive engineering support and on-site services



Complete Systems Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical Electromechanical actuators, motors, controllers & drives



Pneumatics Pneumatic linear and rotary actuators, valves, and air supply



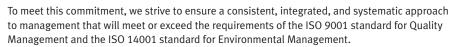
PLCs and I/O Devices PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.





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