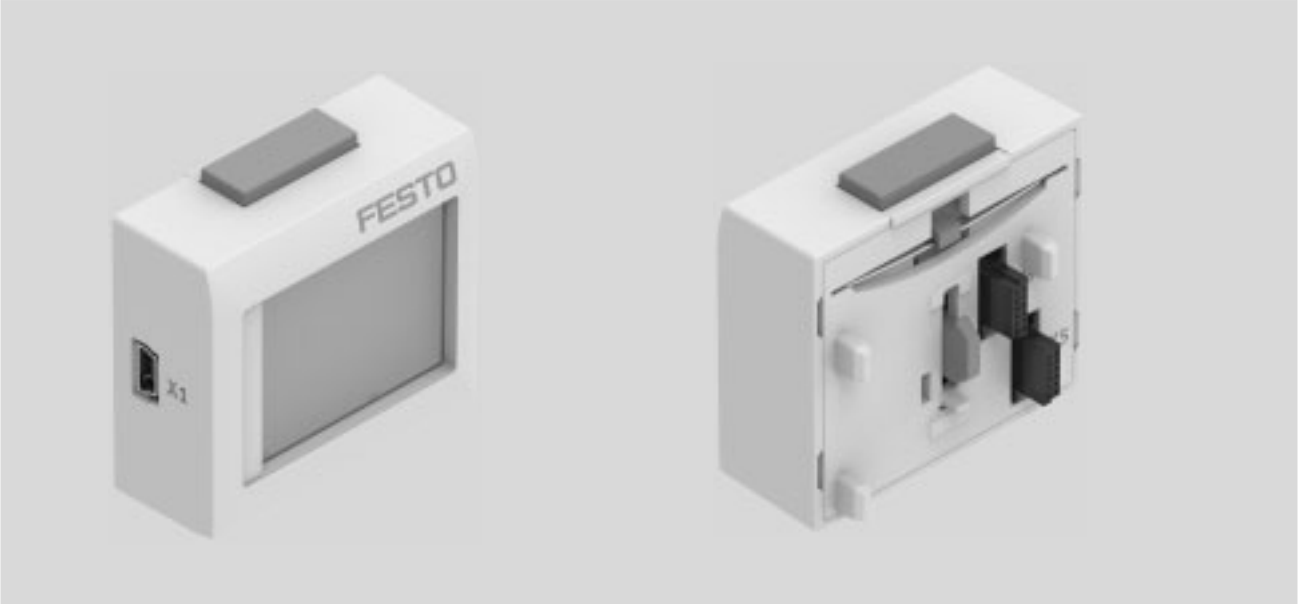
Operator unit CDSB

New

Operator unit CDSB

Key features



Characteristics

The operator unit CDSB-A1 from Festo is a plug-in display and control unit for the servo drive CMMT and the automation system CPX-E.
The integrated colour TFT display with touch screen can be used both for operation and for simple diagnostics of the connected basic unit. Ease of use is increased thanks to error diagnostics with clear-text error messaging.
When plugged in, the resistive touch screen can be used to set a range of parameters (depending on the basic unit). Diagnostic messages can be read and updates can be performed.
In the unplugged state, the CDSB can be connected to a PC using a mini USB connection. The device is detected by the PC as a mass storage device, and firmware files can then be written to it.

Functionality

- Universal operation on a range of basic units (CMMT or CPX-E)
- Compact size
- Colour touch screen
- Diagnostic function
- Update function for basic unit (in plugged-in state)
- Power supply comes from the basic unit
- Mini USB interface
- Interface for basic unit (covered in plugged-in state)

Operator unit CDSB

Key features

Further information

Firmware update

A firmware update can be downloaded from the Festo Support Portal as required. After connecting the operator unit CDSB-A1 to a PC, the downloaded update must be saved in the "/Update" folder.

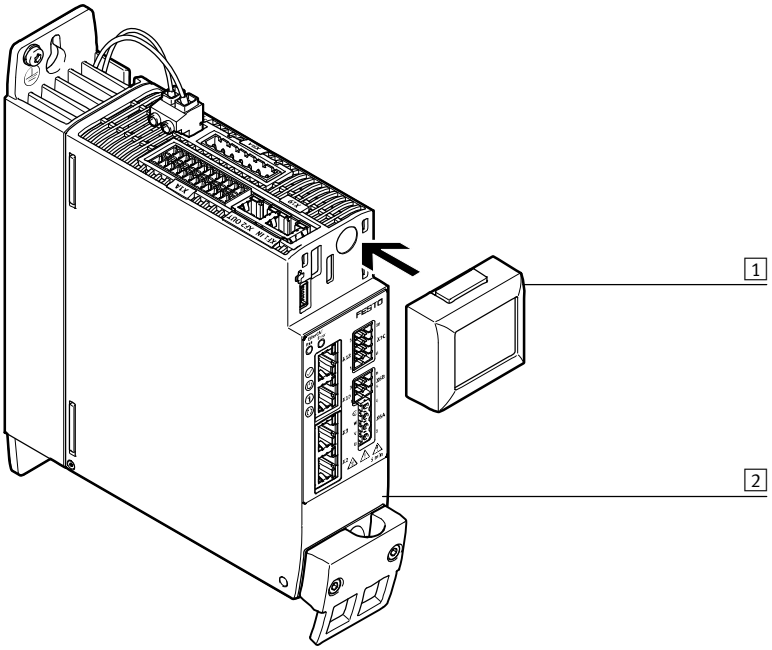
The update is started automatically after restarting the operator unit (Power off/on). The update can take up to 2 minutes. The operator unit will then automatically restart.

Operation of basic unit

If the operator unit CDSB-A1 is plugged into the basic unit, the display will be activated:

- If there is no connection to the basic unit (yet), "Loading data" appears
- Following successful connection, the user interface of the basic unit or the first menu item of the basic unit will be displayed immediately
- A function can be selected within a menu level using the arrow keys (e.g. diagnostics)
- The arrow keys can be used to move from one menu level to another
- Fields that can be amended or that perform an action are highlighted in blue

Plugging the CDSB into the basic unit



1 Operator unit CDSB
2 Basic unit, servo drive CMMT-AS

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Operator unit CDSB-A1

Technical data

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Voltage
4.5 ... 5.5 V DC

Temperature range
0 ... +60 °C

Scope of application:
- For servo drive CMMT-AS
- For controller CPX-E-CEC of automation system CPX-E

General technical data		
Area of application		Only with CMMT and CPX-E-CEC
Display properties		Touch screen
Display		Colour TFT
Display size	[inch]	1.77
Display resolution	[pixels]	128x160
Operating voltage range	[V DC]	4.5 ... 5.5
Max. current	[mA]	250
Typical current	[mA]	90
USB interface, connection technology		USB 2.0 type B mini
Max. cable length	[m]	3
User memory	[GB]	3

Technical data – Mechanical		
Product weight	[g]	36.6
Dimensions W x L x H	[mm]	50 x 45 x 19.6

Materials	
Housing	PA6 reinforced
Note on materials	RoHS-compliant
	Contains paint-wetting impairment substances

Operating and environmental conditions		
Ambient temperature	[°C]	0 ... +60
Storage temperature	[°C]	–20 ... +70
Relative air humidity (at 60°C)	[%]	Max. 95
		Non-condensing
CE marking (see declaration of conformity)[2]		To EU EMC Directive[1]
		To EU RoHS Directive
Certification		RCM compliance mark
		KC EMC
Degree of protection		IP20

1) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com/sp ➔ Certificates.
If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.
2) Additional information www.festo.com/sp ➔ Certificates.

Operator unit CDSB-A1

Technical data

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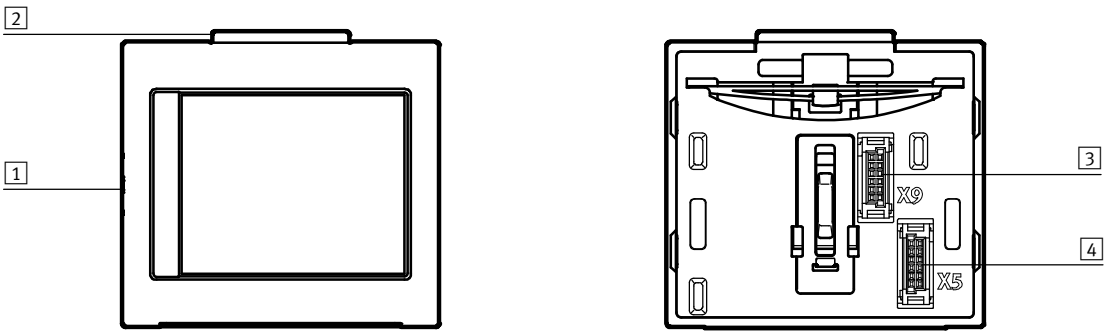
Connection and display components



1 USB interface (X1)

2 Pushbutton for unlocking

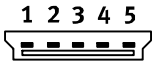
3 Interface for controller CPX-E-CEC (X9)

4 Interface for servo drive CMMT-AS (X5)

Interfaces

Interface	Function	Description
X1	USB interface	The operator unit can be connected to a PC via the USB 2.0 type B mini interface. The operator unit is detected by the PC as a mass storage device.
X5	Interface to the basic unit	Interface for connection to the servo drive CMMT-AS
X9	Interface to the basic unit	Interface for connection to the controller CPX-E-CEC

Circuitry (view of socket)



Pin	Allocation X1: USB 2.0 type B mini socket
1	VBus
2	Data –
3	Data +
4	n.c.
5	GND

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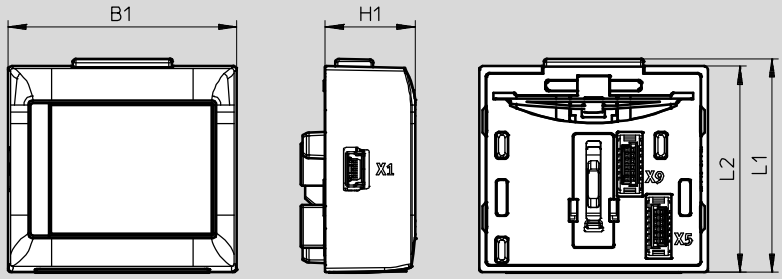
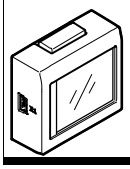
Dimensions Download CAD data ➔ **www.festo.com**



Type code	B1	H1	L1	L2
CDSB-A1	50	19.6	46.6	46

Ordering data

		Part no.	Type code
	Display and control unit for: • Servo drive CMMT-AS • Controller CPX-E-CEC	**8070984**	**CDSB-A1**