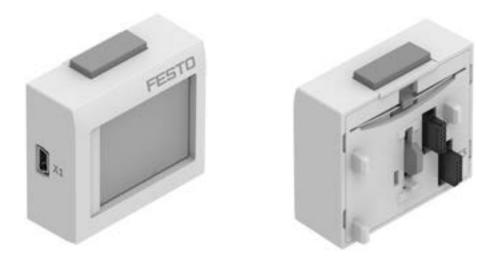
Operator unit CDSB





Key features



Features

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 touchscreen can be used both for operation and for simple diagnostics of the connected basic unit. User-friendliness is enhanced through fault diagnostics with plain-text error messages.

When plugged in, the resistive touchscreen 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 touchscreen
- 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)

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.

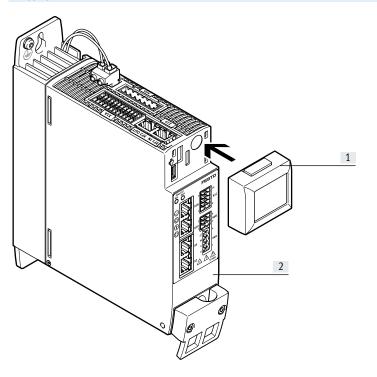
The update is started automatically after restarting the operator unit (Power off/ on). The update can take up to 2 minutes. The operator unit will then automatically restart.

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

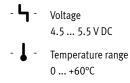
Plugging the CDSB into the basic unit



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

Operator unit CDSB-A1

Data sheet



Scope of application:

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



L

General technical data

| Area of application | | Only with CMMT and CPX-E-CEC |
|--------------------------------------|----------|------------------------------|
| Display design | | Touchscreen |
| Display | | TFT colour |
| 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 components

| Product weight | [g] | 36.6 |
|----------------------|------|----------------|
| Dimensions W x L x H | [mm] | 50 x 45 x 19.6 |

Materials

| Housing | Reinforced PA6 |
|-------------------|--------------------|
| PWIS conformity | VDMA24364 zone III |
| Note on materials | RoHS-compliant |

| 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 |
| UKCA marking (see declaration of conformity) | | UK instructions for EMC |
| | | UK RoHS instructions |
| Certification | | RCM |
| | | KC EMC |
| Degree of protection | | IP20 |

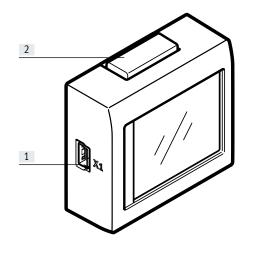
1) For information about the area of use, see the EC declaration of conformity at: www.festo.com/catalogue/CDSB-A1 -> Support/Downloads.

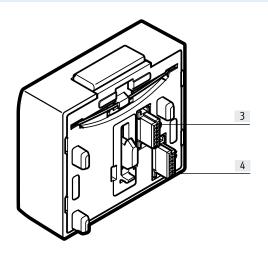
If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

2) Additional information: www.festo.com/sp \rightarrow Certificates

Data sheet

Connection and display components





- [1] USB interface (X1)
- [2] Pushbutton for unlocking
- [3] Interface for controller CPX-E-CEC [4] Interface for servo drive CMMT-AS (X9) (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 | |

| Wiring allocation (socket view) | | |
|---------------------------------|-----|---|
| | Pin | Allocation X1: USB 2.0 type B mini socket |
| | 1 | VBus |
| | 2 | Data – |
| | 3 | Data + |
| | 4 | n.c. |
| | 5 | GND |

Operator unit CDSB-A1

Data sheet

| Dimensions B1 | | | | Download CAD data → <u>www.festo.com</u> |
|------------------|--|---------|----------------------------|--|
| Type CDSB-A1 | B1 50 | H1 19.6 | L1 46.6 | L2 46 |
| Ordering data | Display and control unit for: • Servo drive CMMT-AS • Controller CPX-E-CEC | | Part no. 8070984 | Type CDSB-A1 |