The modular concept of the CPX electrical terminal brings performance to the next level. With the CPX-CP interface, all of the components of a CP installation system can be connected together on a single platform: CPV10/14/18 compact series, MPA10 + MPA20 series modules, CPV-SC “Smart Cubic” valve manifolds, as well as CP Eco, Compact and Standard I/O modules. Depending on the specific fieldbus protocol used, you can even integrate multiple CP interface modules.

**Compact Performance Benefits:**

**Reduced Wiring**

The CPX-CP interface is part of a complete installation system for direct machine mounting with IP65/IP67 protection – all your pneumatics and electronics from a single source. The CPX-CP interface provides a simple hybrid CAN bus and power connection via a single cable. This cable connects the CPX/CPI modules to various CP I/O modules and valve manifolds.

**Combined Centralized and Distributed I/O**

The simplest way to mix centralized and distributed installations for optimum, clearly organized structures – easily adaptable to your specific system requirements.

**Wide Scope of CPX Diagnostics**

Comprehensive diagnostic features from the CPX world help minimize system downtimes.

For more information: [www.festo.com/us/cpx](http://www.festo.com/us/cpx)
**CPX Terminal with CPI System**

**Distributed I/O System with CP Interface**

### Technical Data

<table>
<thead>
<tr>
<th>Designation</th>
<th>CPX-CP-4-FB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection class</td>
<td>IP65/IP67</td>
</tr>
<tr>
<td>No. of CP strings</td>
<td>4 per module, up to 4 full modules per CPX system. Depending on protocol, max. 512 IN/512 OUT</td>
</tr>
<tr>
<td>String length</td>
<td>Max. 10 m</td>
</tr>
<tr>
<td>Max. no. of CP slave modules and I/O per string</td>
<td>For the following modules: Pneumatic: CPV-CPI, MPA-CPI, CPV-SC-CPI; I/O: CP-CL and CP-EL, any combination up to 4 modules, not to exceed 32 I/32 O per string</td>
</tr>
<tr>
<td>CP system cycle time</td>
<td>2-4 ms for entire module, fully locked</td>
</tr>
<tr>
<td>Power supply</td>
<td>Via CPX interlinking block</td>
</tr>
<tr>
<td>CP module power supply</td>
<td>24 V DC, max. 1.8 A, short circuit proof, overload proof (electronic fuse)</td>
</tr>
<tr>
<td>Configuration check</td>
<td>Automatic on power on (comparison of current and saved configurations)</td>
</tr>
<tr>
<td>Display components</td>
<td>4 x LEDs to indicate CP string errors 2 x LEDs to indicate power voltage (sensors, actuators) 2 x LEDs to indicate errors and operating status</td>
</tr>
<tr>
<td>Configuration components</td>
<td>Save button for saving current CP configuration</td>
</tr>
<tr>
<td>System structure</td>
<td>CPX modules and CP interface can be combined as desired Multiple CP interface units can also be used (within existing system limitations) Addressing the CP modules and bus terminal is not required (Plug and Work®)</td>
</tr>
</tbody>
</table>

### Control Architecture

- **Fieldbus**
- **CPX-MMI**
- **MPA-CPI**
- **CPV-SC-CPI**
- **CP-E08-M8-CL**
- **CPE-E32-M8-EL**
- **DFM-12-40**
- **CPV**
- **CP-E08-M8-CL**
- **CP-E16-KL-CL**

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**Festo Corporation**

For ordering assistance, or to find your nearest Festo Distributor,
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