

CP-...-M...
Input module/Electrical module

Images of Festo CP modules, Festo logo, company address (Festo SE & Co. KG, Ruiter Straße 82, 73734 Esslingen, Germany), website (www.festo.com), barcode, and identification numbers (8189813, 2023-01b, [8189815]).

Addendum document | Operating conditions EX

Translation of the original instructions

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1 Identification EX

Table with 1 row: Marking. Content includes Ex symbol and II 3G Ex ec IIC T5 Gc X, II 3D Ex tc IIIC T80°C IP65 Dc X.

Tab. 1: Identification EX

The EX identification applies to the certified products if only the approved accessories are used → 3 Certified products.

2 Applicable documents

NOTICE section containing technical data disclaimer and a list of available documents for the product pointing to www.festo.com/sp.

3 Certified products

Table with 2 columns: Type, Part number. Lists certified products like CP-A08-M12-5POL, CP-E16-M8, etc.

Tab. 2: Certified products

Large table with 3 columns: Designation, Type, Part number. Lists various components like Plug socket, Plug, Power supply socket, and Connecting cable with their respective types and part numbers.

Table with 3 columns: Designation, Type, Part number. Lists accessories like Connecting cable (KVI-CP-3-GS-GD-5, etc.) and Cover cap (ISK-M12, ISK-M8).

Tab. 3: Approved accessories

4 Safety

4.1 Safety instructions

- The device can be used under the stated operating conditions in zone 2, explosive gas atmospheres, and in zone 22, explosive dust atmospheres.
- Use the device in its original status without any unauthorised modifications.
- All work must be carried out outside of potentially explosive areas.
- Work on the product may only be carried out by qualified personnel who can evaluate the work and detect dangers.

4.2 Intended use

The CP modules supply voltage to a CP valve terminal or connected sensors.

4.3 Specific conditions of use

- Close unused inputs and outputs with the cover caps ISK-M8 or ISK-M12. The cover caps are not in scope of delivery.
- Do not connect or disconnect the push-in connector while the voltage is live.
- Prevent disconnection of the plug connectors with the safety clip NEAU-M...-GD or cable binders.
- Use an additional strain relief for the cable before all plug connectors.
- Protect the plug connectors from any shock loading.
- Ambient temperature -5 °C ≤ Ta ≤ +50 °C.
- When using plugs with a degree of protection less than IP5X: Install the device in a housing that is minimum IP54 in accordance with EN 60079-0.
- When used in areas with conductive dust: Use plug connectors and cables with at least IP6X.
- The device must be operated only in an environment with a minimum of pollution degree 2, as defined in IEC 60664-1.

5 Function

The CPI system integrates the CPV valve terminals and different input and output modules into one installation concept. All CP valve terminals and CP modules are connected to one another with a ready-to-connect CP cable and routed to the CP bus node with CP interface. A CP valve terminal and a CP input module each form an installation line that ends at the CP bus node.

6 Commissioning

WARNING section: The discharge of electrostatically charged parts can lead to ignitable sparks. Includes instructions to prevent electrostatic charging and include the device in the system equipotential bonding.

WARNING section: Electrically generated sparks can ignite a potentially explosive atmosphere and cause an explosion. Includes instruction to do not disconnect or open when powered.

7 Maintenance

- The device is maintenance-free.
- Repairs are not possible.

8 Technical data

Table with 2 columns: CP-...-M..., Value. Lists technical data like Ambient temperature [-5 ... +50], Sensor supply Ush [24 ± 25%], Protection class [III (PELV)], and Degree of protection [IP65, IP67].

Tab. 4: Operating conditions