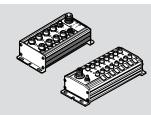
# CP-...-M...

# Input module/Electrical module



# =ESTO

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Addendum document | Operating conditions EX 8189813

2023-01b [8189815]



Translation of the original instructions

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## 1 Identification EX

## Marking



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

Technical data for the product can have different values in other documents. For operation in an explosive atmosphere, the technical data in this document always have priority.

Ωi

All available documents for the product → www.festo.com/sp.

# 3 Certified products

Туре	Part number
CP-A08-M12-5POL	175640
CP-E16-M8	18205
CP-E16-M8-Z	189670
CP-E16-M12X2-5POL	175561

Tab. 2: Certified products

Designation	Туре	Part number
Plug socket	NTSD-GD-9	18493
	NTSD-WD-9	18527
	NTSD-GD-9-M12-5POL-RK	538999
	FBSD-GD-9-5POL	18324
	FBSD-GD-9	18495
	FBSD-GD-13.5	18496
	FBSD-WD-9	18525
Plug	SEA-3GS-M8-S	192009
	SEA-4GS-7-2.5	192008
	SEA-5GS-11-DUO	192010
	SEA-GS-11-DUO	18779
	SEA-GS-7	18666
	SEA-GS-M8	18696
	SEA-M12-5GS-PG7	175487
Power supply socket	NTSD-GD-13.5	18526
	NTSD-WD11	533119
Connecting cable	KVI-CP-3-WS-WD-0.25	540327
	KVI-CP-3-WS-WD-0.5	540328
	KVI-CP-3-WS-WD-2	540329
	KVI-CP-3-WS-WD-5	540330
	KVI-CP-3-WS-WD-8	540331
	KVI-CP-3-GS-GD-2	540332

Designation	Туре	Part number
Connecting cable	KVI-CP-3-GS-GD-5	540333
	KVI-CP-3-GS-GD-8	540334
	NEBU-	539052
Cover cap	ISK-M12	165592
	ISK-M8	177672

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**

The discharge of electrostatically charged parts can lead to ignitable sparks.

- Prevent electrostatic charging by taking appropriate installation and cleaning measures.
- Include the device in the system equipotential bonding.

# **A** WARNING

Electrically generated sparks can ignite a potentially explosive atmosphere and cause an explosion.

• Do not disconnect or open when powered.

## 7 Maintenance

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

# 8 Technical data

CPM		
Ambient temperature	[°C]	-5 <b>+</b> 50
Sensor supply U <sub>N</sub>	[V DC]	24 ± 25%
Protection class in accordance with EN 61140		III (PELV)
Degree of protection in accordance with EN 60529		IP65, IP67

Tab. 4: Operating conditions