

## 16 In- and Outputs



Info-Link interface for the Festo mainfold CPV/CPA. The outputs are separately supplied for EMERGENCY stop functions. The INFO-CPV is configured in the same way as an INFO-16P board, with only the 16 outputs being

occupied. Max. 4000 outputs are possible per INFO-Link, and this with a response time of only 4 $\mu$ s per INFO-Link node. The INFO-Link operates with a transmission rate of 11 MBit per second.

## INFO-CPV

**Festo  
Mainfold  
CPV/CPA**

### Technical Data

#### 24V power supply

- Separate supply for valves
- Separate supply for logic

#### Outputs

- 16 outputs
- 24V, max. 0.1A, short-circuit-proof

#### Local diagnostics

- Link status (yellow LED)
- 5V power supply (red LED)

#### Dimensions

- L, W, H: 105 x 35 x 40 mm

#### Standards

- EN50081-2, interference emission
- EN50082-2, interference immunity (industrial applications)

#### Power supply

- +18 ... 36V,
- Power consumption: 120mA max. (without load)

#### Climatic conditions

- Ambient temperature:  
Storage: -20...+80°C  
Operation: 0 ... +45°C
- Board temperature:  
Operation: 0...+70 °C
- Relative air humidity  
no condensation: 95%

Order No. INFO-CPV 609928800

# INFO-CPV

# 16 In- and Outputs

## Mode of operation

The power supply to the logic (24V) and to the outputs (24V) is not electrically isolated.

The INFO-CPV fits on the CPV and CPA valve islands from Festo with 6 or 8 valve places or 12 or 16 valve coils.

The module can be mounted on the cost-effective multipole variants of the CPV and CPA valve islands.

On CPA valve islands, maximum 16 valve coils can be activated.

In order to apply the INFO-CPV board in a wet environment, a special water-tight housing is necessary. In the standard version, the module is provided with an IP20 enclosure.

Up to maximum 250 INFO-CPV boards can be connected with the INFO-Link to the PC master. A total of 4,000 outputs! Serial transmission is so fast that a board is served every 4 µs. In other words, all 250 INFO-CPV boards are addressed in one millisecond.

In the event of a Power-Off of the computer, or in case of a fiberoptic line rupture, a watchdog will immediately switch off all outputs.

## Connector Allocations

### Connector 1 25f, D-SUB

Pin 1	Output 24V
Pin 2	Gnd
Pin 3	Logic 24V
Pin 4	Gnd

### Connector 2 25f, D-SUB

1	O	V1 14			
2	O	V1 12	V7 12	O	14
3	O	V2 14	V8 14	O	15
4	O	V2 12	V8 12	O	16
5	O	V3 14	-	-	17
6	O	V3 12	-	-	19
7	O	V4 14	-	-	20
8	O	V4 12	-	-	21
9	O	V5 14	-	-	22
10	O	V5 12	-	-	23
11	O	V6 14	Gnd	O	24
12	O	V6 12	Gnd	O	25
13	O	V7 14			

### Output allocations

INFO-CPV	Valve
Out 0	V1 14
Out 1	V1 12
Out 2	V2 14
Out 3	V2 12
Out 4	V3 14
Out 5	V3 12
Out 6	V4 14
Out 7	V4 12
Out 8	V5 14
Out 9	V5 12
Out 10	V6 14
Out 11	V6 12
Out 12	V7 14
Out 13	V7 12
Out 14	V8 14
Out 15	V8 12

## Assembly

### Addressing

S2 (X0)	S1 (0Y)	I/O board
0	0	0
...	...	...
F	F	255

### Jumpers

The jumpers influence the illumination intensity of the emitting LED and thereby the segment length of the fiberoptic cable to the next board.

Segment length	Jumper position
0 ... 10m	no jumper
8 ... 30m	>10
20 ... 50m	>30

### LEDs on receiver module

LED-red	=	+5V power supply
LED-yellow	=	INFO-Link receiver signal OK

### Safety

MTTF <sub>D</sub> [y]	40
DC <sub>AVG</sub>	low

## Connections

### Board power supply

For the board power supply, a 3-phase rectifier without electrolytic capacitor will suffice. But to prevent interference, an electrolytic capacitor of 4,700... 10,000µF is recommended. The 24V power supply must pass through a line filter.

### Shielded lines

All lines from and to the INFO-CPV board can be installed unshielded.

### Grounding

The CPV board is grounded through the housing.

Make sure that the housing has very good contact with the valve island cover to allow interference to be discharged.

See also INDEL Wiring Guidelines and INDEL Design Guidelines.

Customized modifications are available as needed.