

## MVK I/O COMPACT MODULE, METAL

Profibus DP, 8 safety dig. Out/ 8 multif. channels

Art.No.: 55291

Weight: 0.822 kg

Country of origin: DE

Model designation: MVK-MP K3 DO4 (DO4) / DIO4 (DIO4)

Digital inputs/outputs

DO4 DO4 DIO4 DIO4 (K3)

PROFIBUS 12 Mbit/s; M12, B-coded

7/8", 5-pole, max. 9 A

M12, 5-pole, A-coded

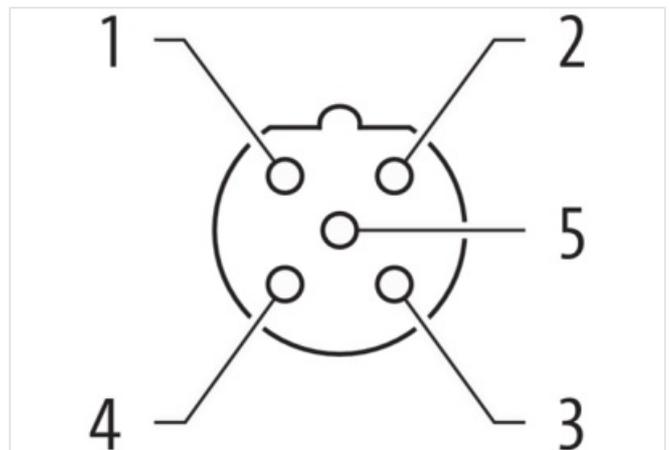
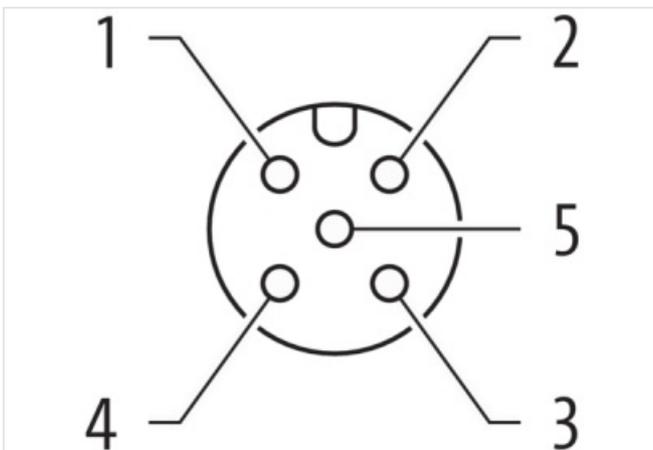
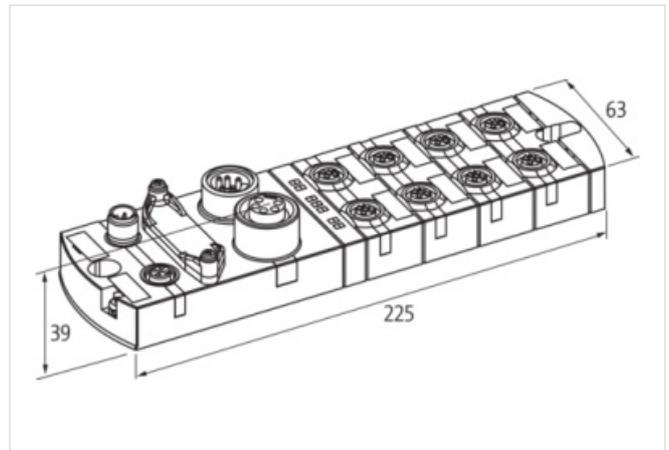
Output groups up to PLd (EN ISO 13849-1) can be switched off via safety relays

Connection cables are in the online shop under "Connection Technology".

Housing fully potted.

### [Link to Product](#)

#### Illustration



Product may differ from Image



#### Header

The information in this Product-PDF has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2026-02-09

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Material short text	MVK-MP K3 DO4 (DO4) / DIO4 (DIO4)
<b>Commercial data</b>	
URL Webshop	<a href="https://shop.murrelektronik.com/55291">https://shop.murrelektronik.com/55291</a>
GTIN	4048879051606
ECLASS-6.0	27242604
ECLASS-6.1	27242604
ECLASS-7.0	27242604
ECLASS-7.1	27242604
ECLASS-8.0	27242604
ECLASS-8.1	27242604
ECLASS-9.0	27242604
ECLASS-9.1	27242604
ECLASS-10.0.1	27242604
ECLASS-10.1	27242604
ECLASS-11.0	27242604
ECLASS-11.1	27242604
ECLASS-12.0	27242604
ECLASS-13.0	27242604
ECLASS-14.0	27242604
ETIM-5.0	EC001599
ETIM-6.0	EC001599
ETIM-7.0	EC001599
ETIM-8.0	EC001599
customs tariff number	85389099
EAN	4048879051606
Packaging unit	1
<b>Electrical data   Supply</b>	
Norm operating voltage	IEC/EN 61131-2
Operating voltage US DC	24 V
Total current US max.	9 A
Operating voltage UA DC	24 V
Total current UA max.	9 A
<b>Electrical data   Input</b>	
Sensor current US per input max.	0,2 A
Overload resistant	Yes
Type input	for 3-wire sensors or mechanical switches, PNP
<b>Electrical data   Output</b>	
Output current per pin max.	2 A
Output current per actuator max.	1,6 A
Actuator current UA per output max.	1,6 A
Overload resistant	Yes
Short-circuit protected	Yes
Lamp load	10 W
<b>Industrial communication   Bus data</b>	
Address setting type	Rotary switch
Address range min.	1
Address range max.	99
<b>Diagnostics</b>	
Actuator warning	per channel via LED and BUS
Short circuit diagnosis	Yes
Overload diagnosis	Yes

Cable break	per port
Diagnostic	No voltage, Under voltage
Diagnostic via BUS	per module and channel
Diagnostic via LED	per module and channel
LED display	Ethernet connection/data traffic

#### Device protection | Electrical

Degree of protection (EN IEC 60529)	IP67
Overload resistant	Yes
Short-circuit protected	Yes

#### Mechanical data | Mounting data

Height	39 mm
Width	63 mm
Depth	225 mm
Suitable for mounting type	2-hole screw mounting

#### Environmental characteristics | Climatic

Operating temperature min.	0 °C
Operating temperature max.	55 °C
Ambient temperature (storage, transport)	-20 °C ... 70 °C

#### Connection type 7

Connection type 1	0, 1
Connection type 2	2, 3
Connection type 3	4-7
Connection type 4	Bus In
Connection type 5	Bus Out
Connection type 6	Power In
Connection type 7	Power Out
Family construction form	M12
No. of poles	5
Coding	A
Gender	female
Color contact carrier	yellow
PIN 1	n.c.
PIN 2	DO
PIN 4	DO
PIN 5	PE
Family construction form	M12
No. of poles	5
Coding	A
Gender	female
Color contact carrier	yellow
PIN 1	n.c.
PIN 2	DO
PIN 3	0 V (UA 2)
PIN 4	DO
PIN 5	PE
Family construction form	M12
No. of poles	5
Coding	A
Gender	female
Color contact carrier	black
PIN 1	24 V DC
PIN 2	DI / DO

PIN 3	0 V
PIN 4	DI / DO
PIN 5	PE
Family construction form	M12
No. of poles	5
Coding	B
Gender	male
Color contact carrier	black
PIN 1	n.c.
PIN 2	A GN
PIN 3	n.c.
PIN 4	B RD
PIN 5	n.c.
Family construction form	M12
No. of poles	5
Coding	B
Gender	female
Color contact carrier	black
PIN 1	5 V 2
PIN 2	A GN
PIN 3	0 V 2
PIN 4	B RD
PIN 5	n.c.
Family construction form	7/8"
No. of poles	5
Gender	male
Color contact carrier	yellow
PIN 1	0 V (UA 1)
PIN 2	0 V (UA 2)
PIN 3	PE
PIN 4	24 V DC (UA 1)
PIN 5	24 V DC (UA 2)
Family construction form	7/8"
No. of poles	5
Gender	male
Color contact carrier	black
PIN 1	0 V (UA)
PIN 2	0 V (US)
PIN 3	PE
PIN 4	24 V DC (US)
PIN 5	24 V DC (UA)