

MVK-MPNIO DIO12 DIO4/IOL4 M12L 5P

ProfiNet, Compact module, metal

Art.No.: 55182

Weight: 0.925 kg

Country of origin: DE

Model designation: MVK-MPNIO DIO12 DIO4/IOL4 M12L 5P

Digital inputs/outputs

DIO12 DIO4/IOL4 (IRT)

Ethernet 10/100 Mbit/s; M12, D-coded

M12 Power, 5-pole, L-coded

M12, 5-pole, A-coded

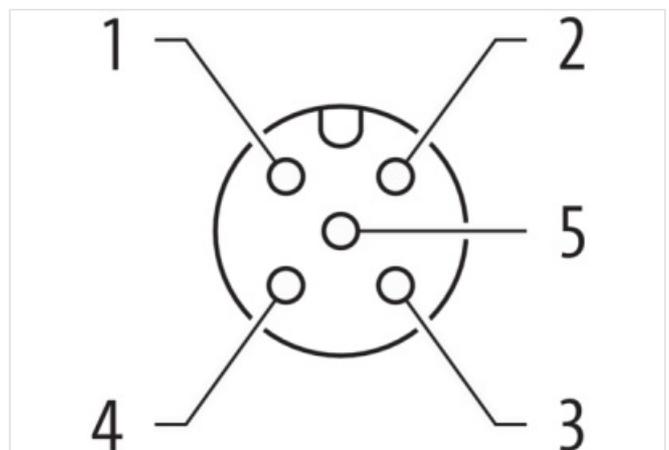
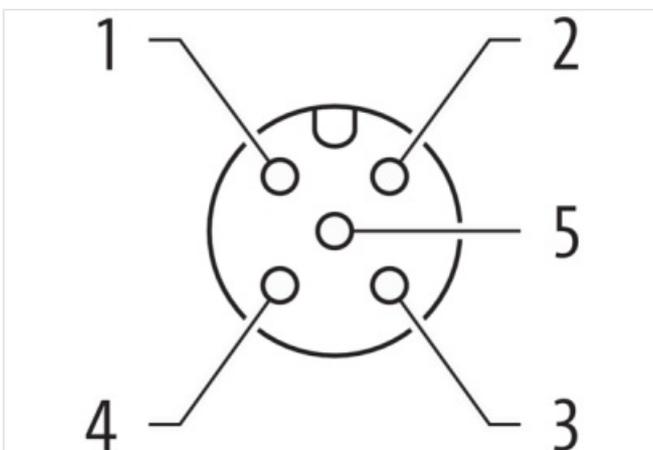
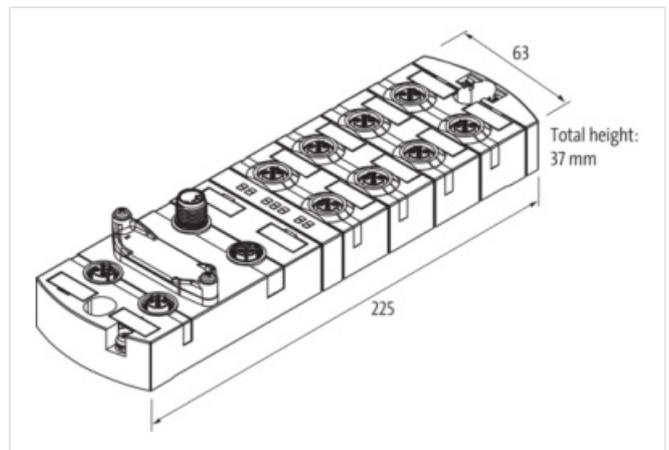
IO-Link Master V1.1.2

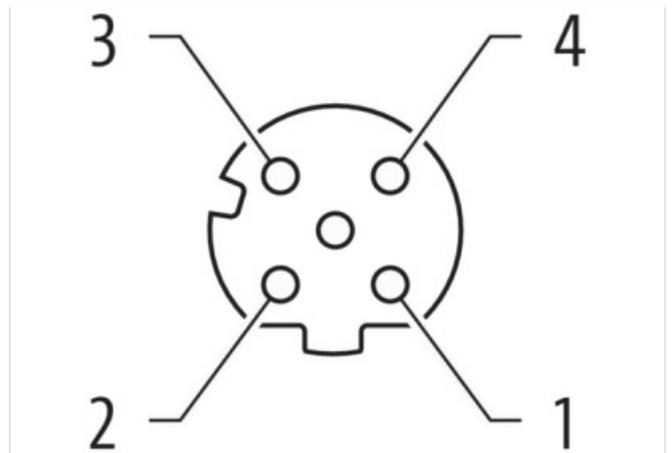
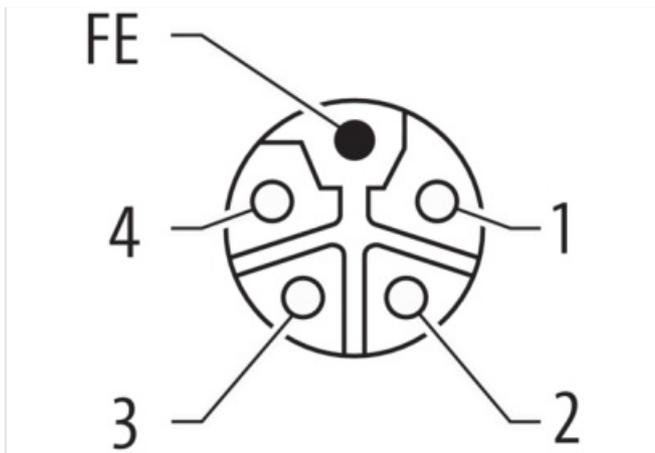
Connection cables are in the online shop under "Connection Technology".

Housing fully potted.

[Link to Product](#)

Illustration





Product may differ from Image



Header

Material short text MVK-MPNIO DIO12 DIO4/IOL4 M12L 5P

Commercial data

URL Webshop	https://shop.murrelektronik.com/55182
GTIN	4048879778701
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	4048879778701
Packaging unit	1

Electrical data | Supply

Norm operating voltage	IEC/EN 61131-2
Operating voltage US DC	24 V
Total current US max.	16 A
Operating voltage UA DC	24 V
Total current UA max.	16 A

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: 2026-01-28

Electrical data | Input

Sensor current US per input max.	0,2 A
Sensor current US per IO-Link port max.	1 A
Short-circuit protected	Yes
Overload resistant	Yes
Type input	for 3-wire sensors or mechanical switches, IO-Link Devices, PNP

Electrical data | Output

Output current per pin max.	1,6 A
Total current outputs max.	9 A
Overload resistant	Yes
Short-circuit protected	Yes
Lamp load	10 W

Industrial Communication

Supported protocol	Profinet
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Industrial communication | Profinet

PROFINET conformance class	C
PROFINET addressing	DCP
PROFINET Netload Class	III
PROFINET specification	V2.3
IRT (network communication)	Yes
MRP client	Yes
FSU (Fast-Start-Up)	Yes
Fast start up time max.	0,5 s
Shared device/input	Yes
Number of active connections (IO controller) max.	2

Industrial communication | IO-Link

IO-Link type	4x Master
Port Class	B
IO-Link revision ID	V1.1.2
IO-Link transmission rate	COM1, COM2, COM3
IO-Link process data length input	32 bytes
IO-Link process data length output	32 bytes
Automatic baudrate detection	Yes

Diagnostics

Actuator warning	per channel via LED and BUS
Short circuit diagnosis	Yes
Overload diagnosis	Yes
Cable break	per port
Diagnostic via BUS	per module and channel
Diagnostic via LED	per module and channel
LED display	Ethernet connection/data traffic
IO-Link events	Undervoltage supply, No voltage

Device protection | Electrical

Degree of protection (EN IEC 60529)	IP67
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Mechanical data | Mounting data

Height	37 mm
Width	63 mm
Depth	225 mm
Suitable for mounting type	2-hole screw mounting

Environmental characteristics | Climatic

Operating temperature min. -25 °C

Operating temperature max. 60 °C

Ambient temperature (storage, transport) -25 °C

Connection type 5

Connection type 1 X0-X3

Connection type 2 X4-X7

Connection type 3 XD1

Connection type 4 XD2

Connection type 5 XF2

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 A

Gender female

Color contact carrier gray

PIN 1 24 V DC

PIN 2 DI / DO

PIN 3 0 V

PIN 4 DI / DO / IO-Link

PIN 5 0 V

Family construction form M12

No. of poles 5

Coding L

Gender male

Color contact carrier black

PIN 1 24 V DC (US)

PIN 2 0 V

PIN 3 0 V

PIN 4 24 V DC (UA)

PIN 5 PE

Family construction form M12

No. of poles 5

Coding L

Gender female

Color contact carrier black

PIN 1 24 V DC (US)

PIN 2 0 V

PIN 3 0 V

PIN 4 24 V DC (UA)

PIN 5 PE

Family construction form M12

No. of poles 4

Coding D

Gender female

Color contact carrier	black
Mounting method	inserted, screwed
Tightening torque	0,6 Nm
PIN 1	TD +
PIN 2	RD +
PIN 3	TD -
PIN 4	RD -
PIN 5	n.c.