

**MVK-MPNIO DIO12 IOL4 IRT 7/8" 5pin**

Art.No.: 55532

Weight: 0.966 kg

Country of origin: DE

Model designation: MVK-MPNIO DIO12 IOL4 IRT

Digital inputs/outputs

DIO12 IOL4 (IRT)

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

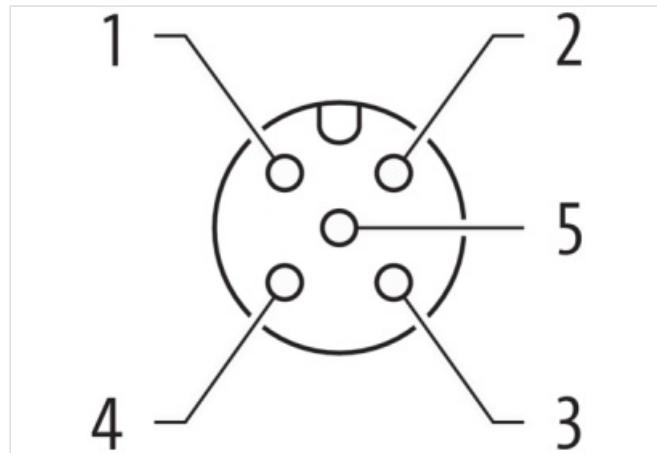
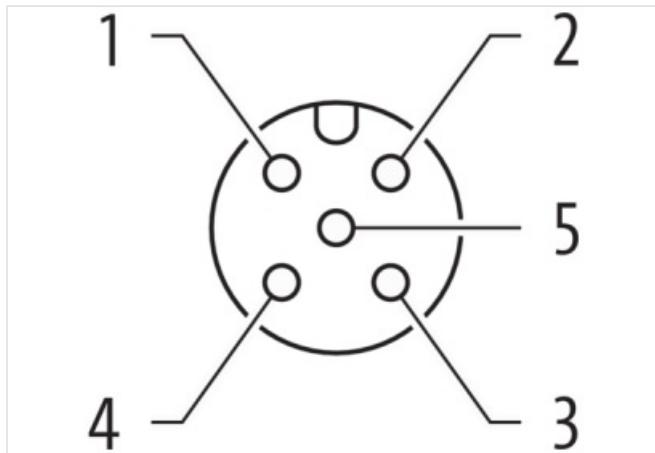
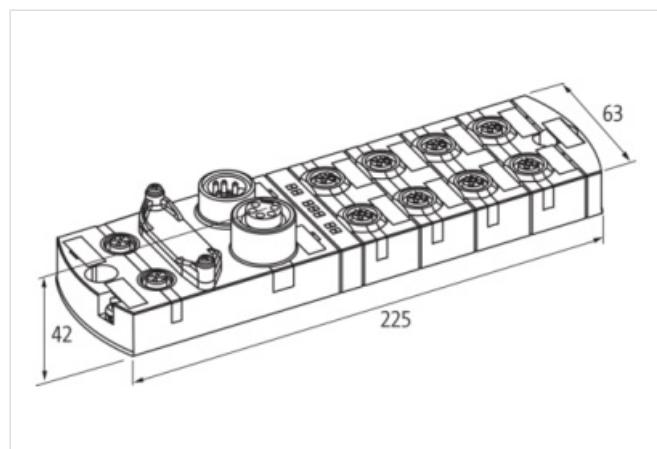
7/8", 5-pole, 2x max. 9 A

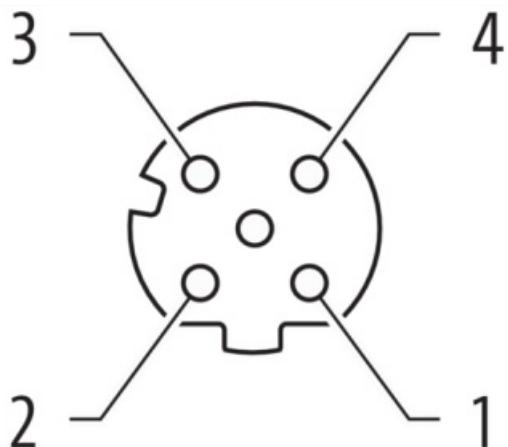
M12, 5-pole, A-coded

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 IOL4 IRT

#### Commercial data

URL Webshop	<a href="https://shop.murrelektronik.com/55532">https://shop.murrelektronik.com/55532</a>
GTIN	4048879527583
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	EC001597
ETIM-6.0	EC001597
ETIM-7.0	EC001597
ETIM-8.0	EC001597
customs tariff number	85389099
EAN	4048879527583
Packaging unit	1

#### Electrical data | Supply

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

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: 2026-01-30

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**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
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	A, 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	42 mm
Width	63 mm
Depth	225 mm
Suitable for mounting type	2-hole screw mounting

**Environmental characteristics | Climatic**

Operating temperature min.	-25 °C
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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	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)
Family construction form	7/8"
No. of poles	5
Gender	female
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)
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.