

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

Digital inputs/outputs
DIO12 IOL4 (IRT)
Ethernet 10/100 Mbit/s; M12, D-coded
7/8", 5-pole, 2× max. 9 A
M12, 5-pole, A-coded

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

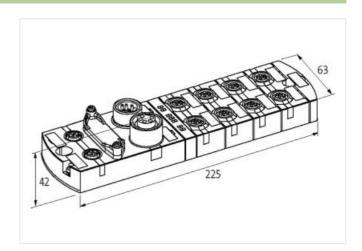
Housing fully potted.

IO-Link Master V1.1.2

## **Link to Product**

## Illustration





Product may differ from Image











Commercial data		
ECLASS-6.0	27242604	
ECLASS-6.1	27242604	
ECLASS-7.0	27242604	
ECLASS-8.0	27242604	
ECLASS-9.0	27242604	
ECLASS-10.1	27242604	
ECLASS-11.1	27242604	
ECLASS-12.0	27242604	
ETIM-5.0	EC001597	
customs tariff number	85389099	
GTIN	4048879527583	
Packaging unit	1	
Electrical data   Supply		
Norm operating voltage	EN 61131-2	
Operating voltage US DC	24 V	
Operating voltage UA DC	24 V	
Total current UA max.	9 A	
Total current US max.	9 A	
Flectrical data   Innut		

Electrical data | Input

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: 2024-04-26



stay connected

Overload resistant	yes
Short-circuit protected	yes
Type input	PNP, for 3-wire sensors or mechanical switches, IO-Link Devices
Sensor current US per input max.	0,2 A
Sensor current US per IO-Link port max.	1 A
Electrical data   Output	
Overload resistant	yes
Short-circuit protected	yes
Output current per pin max.	1,6 A
Lamp load	10 W
Industrial communication	
Supported protocol	PROFINET
Industrial communication   Profinet	
Number of active connections (IO controller) max.	2
FSU (Fast-Start-Up)	yes
Fast start up time max.	0,5 s
IRT (network communication)	yes
MRP client	yes
PROFINET Netload Class	III
PROFINET addressing	DCP
PROFINET conformance class	С
PROFINET specification	V2.3
Shared device/input	yes
Industrial communication   IO-Link	
Automatic baudrate detection	yes
IO-Link process data length output	32 Bytes
IO-Link process data length input	32 Bytes
IO-Link revision ID	V1.1.2
IO-Link type	4× Master
IO-Link transmission rate	COM1, COM2, COM3
Port Class	A, B
Diagnostics	
Actuator warning	per channel via LED and BUS
Diagnostic via BUS	per module and channel
Diagnostic via LED	per module and channel
IO-Link events	No voltage, Undervoltage supply
Short circuit diagnosis	yes
LED display	Ethernet connection/data traffic
Cable break	per port
Overload diagnosis	yes
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP67
Mechanical data   Mounting data	
Suitable for mounting type	2-hole screw mounting
Height	42 mm
Width	63 mm
Depth	225 mm
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	-25 ℃ 60 °C
- prisang temperature man	υυ <b>Ο</b>

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: 2024-04-26



stay connected

Storage temperature min.	-25 °C
Storage temperature max.	70 °C
Connection type 5	
Connection type 1	X0-X3
Connection type 1	X4-X7
Connection type 3	XD1
Connection type 3	XD2
Connection type 5	XF2
Family construction form	M12
Gender	female
Color contact carrier	black
	A
Coding	5
No. of poles PIN 1	24 V DC
PIN 2	DI / DO
PIN 3	
PIN 4	0 V DI / DO
PIN 5	PE M12
Family construction form  Gender	M12
Color contact carrier	female
	gray
Coding	A
No. of poles	5
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"
Gender	male
Color contact carrier	black
No. of poles	5
PIN 1	0 V (UA)
PIN 2	0 V (US)
PIN 3	PE CAMPO (III)
PIN 4	24 V DC (US)
PIN 5	24 V DC (UA)
Family construction form	7/8"
Gender Color contact corrier	female
Color contact carrier	black
No. of poles	5
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)
Mounting method	inserted, screwed
Tightening torque	0,6 Nm
Family construction form	M12
Gender	female
Color contact carrier	black
Coding	D
No. of poles	4



PIN 1	TD +	
PIN 2	RD +	
PIN 3	TD -	
PIN 4	RD -	