MVK-MPNIO DIO14 DIO2/IOL2 M12L 5P

ProfiNet, Compact module, metal

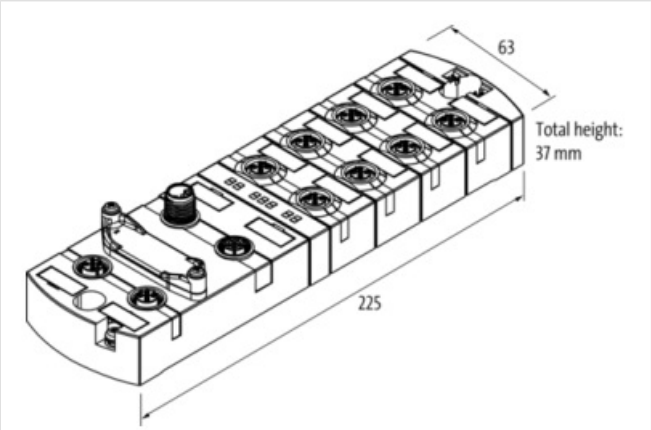
Art.No.: 55181
Weight: 0,925 kg
Country of origin: DE
Model designation: MVK-MPNIO DIO14 DIO2/IOL2 M12L 5P

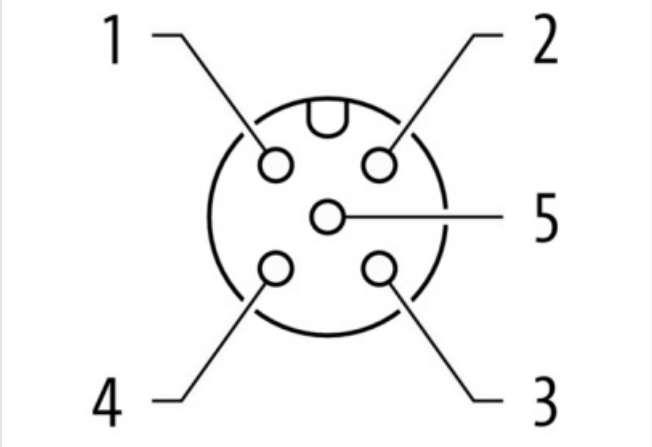
Digital inputs/outputs
DIO14 DIO2/IOL2 (IRT)
Ethernet 10/100 Mbit/s; M12, D-coded
M12 Power, 5-pole, L-coded
M12, 5-pole, A-coded
IO-Link Master V1.1.2
Connection cables are in the online shop under "Connection Technology".
Housing fully potted.

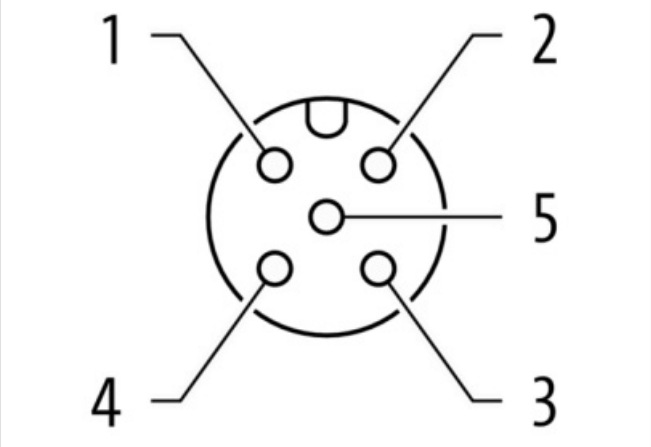
Link to Product

Illustration

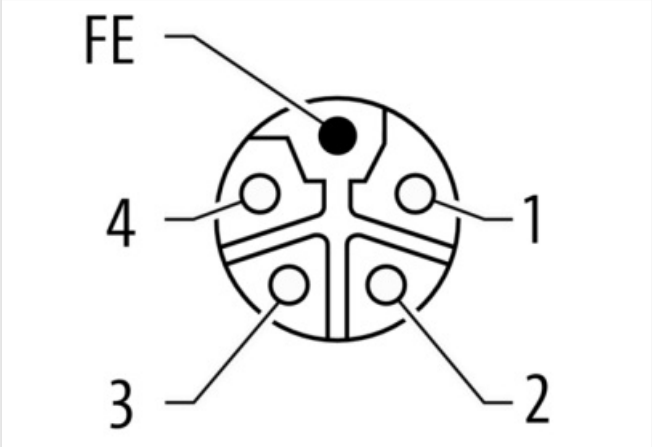


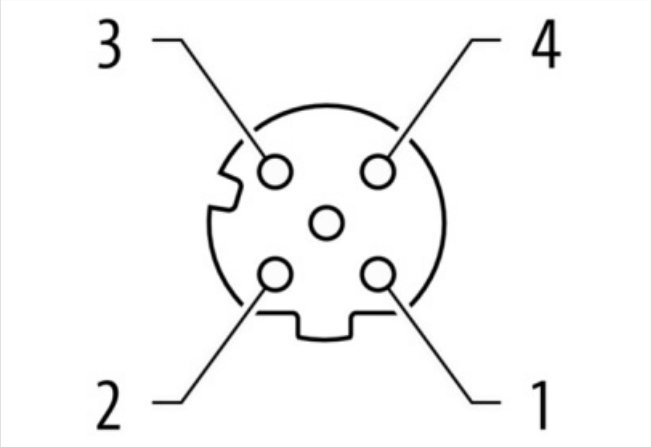






The information in this Product-PDF has been compiled with the utmost care.
Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2026-10-14





Product may differ from Image

Commercial data	
URL Webshop	https://shop.murrelektronik.com/55181
GTIN	4048879778398
EU-Customs tariff number	85389099
US-Customs tariff number	8538908180
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
ETIM-9.0	EC001599
ETIM-10.0	EC001599
customs tariff number	85389099
EAN	4048879778398
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

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: 2026-10-14

Total current UA max.	16 A
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 | Bus data	
Supported protocol	PROFINET
Industrial communication | PROFINET	
Conformance Class	C
addressing	DCP
Netload Class	III
Specification	V2.3
IRT-network communication	Yes
MRP client	Yes
Fast-Start-Up (FSU)	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	
type	2× Master
Port Class	B
revision ID	V1.1.2
transmission rate	COM1, COM2, COM3
process data length input	32 byte
process data length output	32 byte
Automatic baudrate detection	automatic
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
Mechanical data | Mounting data	
Height	37 mm
Width	63 mm
Depth	225 mm
Suitable for mounting type	2-hole screw mounting

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: 2026-10-14

Environmental characteristics | Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	60 °C
Ambient temperature (storage, transport)	-25 °C … 70 °C
Connection type 5-5	
Connection type 1	X0-X5
Connection type 2	X6, 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

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: 2026-10-14

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.

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: 2026-10-14