

MVK MPNIO DI16 galvanic separation

MVK PROFINET compact module, metal

Art.No.: 54530

Weight: 0.951

Country of origin: DE

Model designation: MVK MPNIO DI16

Digital inputs

DI16 (IRT)

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

7/8", 5-pole, max. 9 A, protection against reverse polarization

M12, 5-pole, A-coded

FSU (Fast-Start-Up)

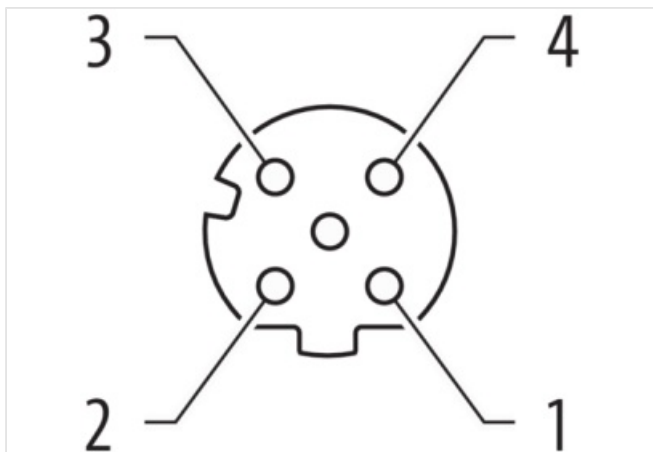
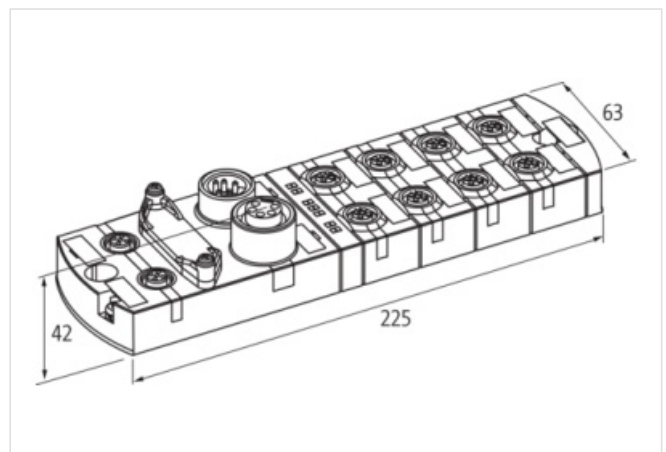
Galvanic isolation

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 DI16
Commercial data	
URL Webshop	https://shop.murrelektronik.com/54530
GTIN	4048879798976
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
customs tariff number	85389099
EAN	4048879798976
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
Total current UA max.	9 A
Electrical data Input	
Sensor current US per input max.	0.2 A
Short-circuit protected	yes
Overload resistant	yes
Type input	for 3-wire sensors or mechanical switches, PNP
Industrial communication	
Supported protocol	PROFINET
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
Diagnostics	
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
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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.	-25 °C
Operating temperature max.	55 °C
Storage temperature min.	-25 °C
Storage temperature max.	70 °C

Connection type 4

Connection type 1	X0-X7
Connection type 2	XD1
Connection type 3	XD2
Connection type 4	XF1, XF2
Family construction form	M12
No. of poles	5
Coding	A
Gender	female
Color contact carrier	Black
PIN 1	24 V DC (US)
PIN 2	DI
PIN 3	0 V (US)
PIN 4	DI
PIN 5	PE
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.