

## MVK+ MPNIO D18 D18 IRT PUSH PULL

MVK ProfiNet, metal, galvanic separation

Art.No.: 55528

Weight: 0.975 kg

Country of origin: DE

Model designation: MVK+ MPNIO D18 D18 IRT Push Pull

Digital inputs

D18 D18 (IRT)

Ethernet 10/100 Mbit/s; Push Pull RJ45 Data connector

Push Pull Power connector, max. 12 A

M12, 5-pole, A-coded

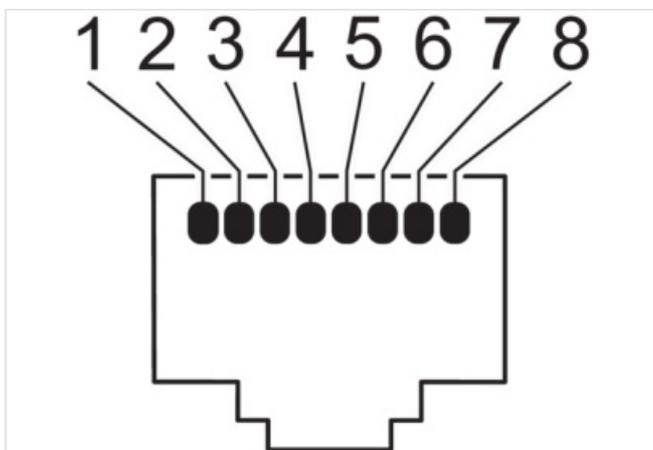
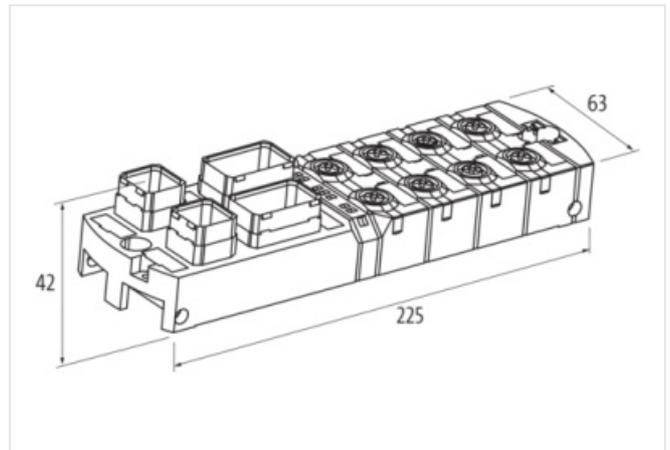
Galvanic isolation

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

Housing fully potted.

### [Link to Product](#)

#### Illustration



Product may differ from Image



#### Header

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: 2026-02-07

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Material short text	MVK+ MPNIO D18 D18 IRT Push Pull
<b>Commercial data</b>	
URL Webshop	<a href="https://shop.murrelektronik.com/55528">https://shop.murrelektronik.com/55528</a>
GTIN	4048879461672
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	4048879461672
Packaging unit	1
<b>Electrical data   Supply</b>	
Norm operating voltage	IEC/EN 61131-2
Operating voltage US DC	24 V
Total current US max.	12 A
Total current UA max.	12 A
<b>Electrical data   Input</b>	
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
<b>Industrial Communication</b>	
Supported protocol	Profinet
<b>Industrial communication   Profinet</b>	
PROFINET conformance class	C
PROFINET addressing	DCP
PROFINET Netload Class	III
PROFINET specification	V2.2
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
<b>Diagnostics</b>	
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	42,7 mm
Width	63 mm
Depth	225 mm
Suitable for mounting type	2-hole screw mounting

#### Environmental characteristics | Climatic

Operating temperature min.	0 °C
Operating temperature max.	55 °C
Ambient temperature (storage, transport)	-20 °C ... 70 °C

#### Connection type 3

Connection type 1	X4-X7
Connection type 2	XD1, XD2
Connection type 3	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	Push Pull
No. of poles	5
Gender	male
Color contact carrier	green
PIN 1	24 V DC (US)
PIN 2	0 V (US)
PIN 3	24 V DC (UA)
PIN 4	0 V (UA)
PIN 5	PE
Family construction form	RJ45
No. of poles	8
Gender	female
Color contact carrier	black
PIN 1	TD +
PIN 2	TD -
PIN 3	RD +
PIN 4	n.c.
PIN 5	n.c.
PIN 6	RD -
PIN 7	n.c.
PIN 8	n.c.

