

MVK+MPNIO DI8 DI8 POF IRT

Push Pull galvanic separation

Art.No.: 55254

Weight: 0.977

Country of origin: DE

Model designation: MVK+ MPNIO DI8 DI8 POF IRT PP

Digital inputs

DI8 DI8 (IRT)

Ethernet 10/100 Mbit/s; 2× SCRJ45 POF Push Pull

Push Pull Power connector, max. 12 A

M12, 5-pole, A-coded

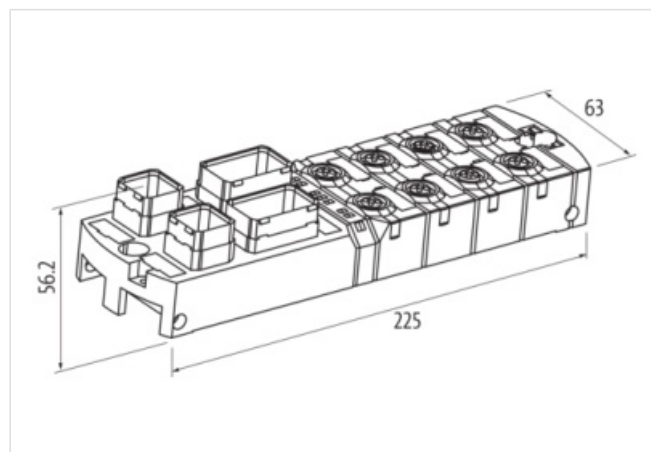
Galvanic isolation

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

Housing fully potted.

[Link to Product](#)**Illustration**

Product may differ from Image

**Commercial data**

URL Webshop	https://shop.murrelektronik.com/55254
GTIN	4048879553162
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

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: 2025-10-03

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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
EAN	4048879553162

Electrical data | Supply

Norm operating voltage	EN 61131-2
Operating voltage US DC	24 V
Total current US max.	12 A
Total current UA max.	12 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
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Industrial communication | Profinet

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

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	56.2 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

Storage temperature min.	-20 °C
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Storage temperature max.	70 °C
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Connection type 3

Connection type 1	X4-X7
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Connection type 2	XD1, XD2
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Connection type 3	XF1, XF2
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Family construction form	M12
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No. of poles	5
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Coding	A
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Gender	female
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Color contact carrier	black
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PIN 1	24 V DC (US)
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PIN 2	DI
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PIN 3	0 V (US)
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PIN 4	DI
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PIN 5	PE
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Family construction form	Push Pull
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No. of poles	5
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Gender	male
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Color contact carrier	green
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PIN 1	24 V DC (US)
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PIN 2	0 V (US)
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PIN 3	24 V DC (UA)
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PIN 4	0 V (UA)
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PIN 5	PE
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Family construction form	POF SC-RJ
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No. of poles	2
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Gender	female
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Color contact carrier	black
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PIN 1	RD
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PIN 2	TD
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