

MVK-MPNIO F DI16/8 7/8" IRT

MVK ProfiNet/PROFIsafe Compact module, metal,

Art.No.: 55556

Weight: 1.100 kg

Country of origin: DE

Model designation: MVK-MPNIO F DI16/8 7/8" IRT

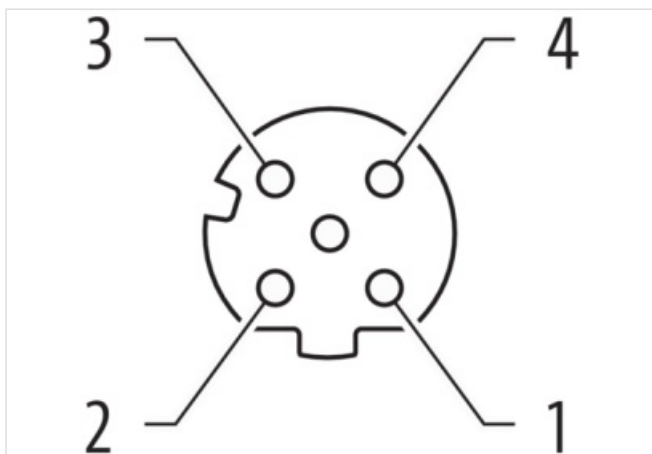
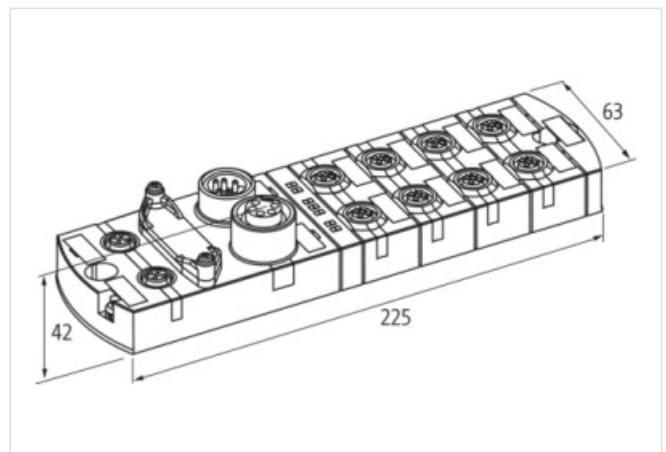
safe inputs up to cat.4/PLe (EN ISO 13849-1), up to SIL3 (IEC 61508), up to SILCL3 (IEC 62061)

FDI16/8 (IRT)

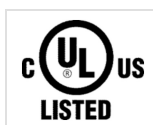
Ethernet 10/100 Mbit/s; M12, D-coded

7/8", 5-pole, 2× max. 9 A

M12, 5-pole, A-coded

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

Product may differ from Image

**Header**

Material short text

MVK-MPNIO F DI16/8 7/8" IRT

Commercial data

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: 2026-01-17

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URL Webshop	https://shop.murrelektronik.com/55556
GTIN	4048879570756
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	4048879570756
Packaging unit	1

Safety codes

DCavg (EN ISO 13849-1)	98 %
Service life	20 a
Category (EN ISO 13849-1)	4
PfHd (IEC 61508)	17 E-10/h
Performance level (EN ISO 13849-1)	e
SIL (IEC 61508)	3
SIL CL (IEC 62061)	3

Electrical data | Supply

Operating current per pin max.	when using pin 1 or pin 5, when using pin 1 and pin 5, 0.2 A, 0.7 A
Total current US max.	9 A
Total current UA max.	9 A

Electrical data | F-Input

Type Safety input	for electronical sensors or mechanical switches
Operating voltage F input	24 V

Industrial Communication

Supported protocol	Profinet
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Industrial communication | Profinet

PROFINET conformance class	C
PROFINET addressing	DCP
PROFINET specification	V2.2
IRT (network communication)	Yes
MRP client	Yes
Shared device/input	Yes
Number of active connections (IO controller) max.	2

Diagnostics

Actuator warning	per channel via LED and BUS
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Short circuit diagnosis	Yes
Overload diagnosis	Yes
Wire break detection	Yes
Cross-link detection	Sensor/Actuator
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
Overload resistant	Yes
Short-circuit protected	Yes

Mechanical data | Mounting data

Height	44 mm
Width	63 mm
Depth	225 mm
Suitable for mounting type	2-hole screw mounting

Environmental characteristics | Climatic

Operating temperature min.	-20 °C
Operating temperature max.	55 °C
Ambient temperature (storage, transport)	-40 °C

Conformity

Product standard	IEC/EN 61131-2
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Connection type 4

Connection type 1	0-7
Connection type 2	Power In
Connection type 3	Power Out
Connection type 4	XF2
Family construction form	M12
No. of poles	5
Coding	A
Gender	female
Color contact carrier	yellow
PIN 1	24 V DC (US 1) Test Pulse P 4
PIN 2	FDI
PIN 3	0 V (US 1)
PIN 4	FDI
PIN 5	24 V DC (US 1) Test Pulse P 2
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.