MVK-MPNIO F DI8/4 F DO4

MVK ProfiNet/PROFIsafe Compact module, metal,

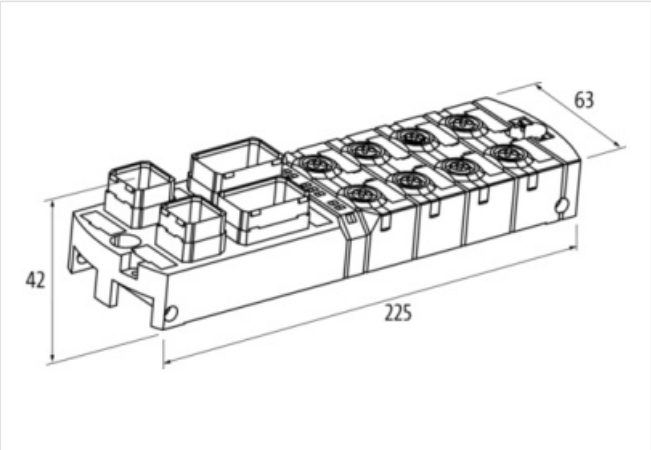
Art.No.: 55563
Weight: 1,100 kg
Country of origin: DE
Model designation: MVK-MPNIO F DI8/4 F DO4 PP

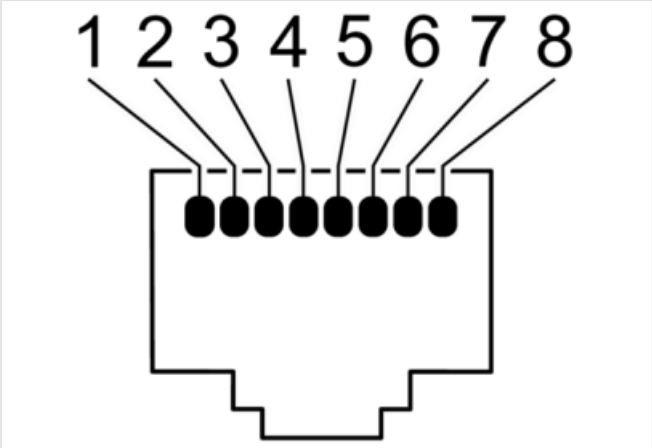
safe inputs/outputs up to cat.4/PLe (EN ISO 13849-1), up to SIL3 (IEC 61508), up to SILCL3 (IEC 62061)
FDI8/4 DO4 (IRT)
Ethernet 10/100 Mbit/s; Push Pull RJ45 Data connector
Push Pull Power connector, max. 12 A
M12, 5-pole, A-coded

Link to Product

Illustration







Product may differ from Image

Commercial data

URL Webshop	https://shop.murrelektronik.com/55563
GTIN	4048879454216

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

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	4048879454216
Packaging unit	1
Safety codes	
DCavg (EN ISO 13849-1)	98 %
Service life	20 a
Category (EN ISO 13849-1)	4
PFHd (IEC 61508)	16,53 E-10/h
Performance level (EN ISO 13849-1)	e
SIL (EN/IEC 61508, EN IEC 62061)	3
SIL claim limit (EN IEC 62061)	3
Electrical data | Supply	
Norm operating voltage	IEC/EN 61131-2
Operating current per pin	when using pin 1 or pin 5, when using pin 1 and pin 5, 0.2 A, 0.7 A
Total current US max.	12 A
Operating voltage UA DC	24 V
Total current UA max.	12 A
Electrical data | Output	
Output current per pin (safety) max.	2 A
Total current outputs max.	8 A
Electrical data | F-Input	
Type Safety input	for electronical sensors or mechanical switches
Operating voltage F input	24 V
Industrial communication | Bus data	
Supported protocol	PROFINET
Industrial communication | PROFINET	
Conformance Class	C
addressing	DCP

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

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
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 … 70 °C
Connection type 4-4	
Connection type 1	0-3
Connection type 2	4-7
Connection type 3	Port1, Port2
Connection type 4	Power In, Power Out
Family construction form	M12
No. of poles	5
Coding	A
Gender	female
Color contact carrier	yellow
PIN 1	n.c.
PIN 2	n.c.
PIN 3	Mx
PIN 4	Px
PIN 5	PE
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)

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

PIN 4	FDI
PIN 5	24 V DC (US 1) Test Pulse P 2
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.
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

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