

MVK-MPNIO F DI8/4 F DO4

MVK ProfiNet/PROFIsafe Compact module, metal,

Art.No.: 55563

Weight: 1.1

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)

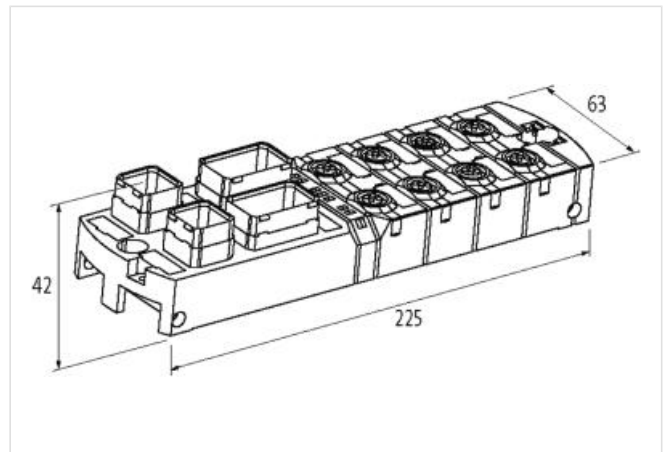
Ethernet 10/100 Mbit/s; Push Pull RJ45 Data connector

Push Pull Power connector, max. 12 A

M12, 5-pole, A-coded

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

Product may differ from Image

**Commercial data**

ECLASS-6.0	27242604
ECLASS-6.1	27242604
ECLASS-7.0	27242604
ECLASS-8.0	27242604
ECLASS-9.0	27242604
ECLASS-10.1	27242604
ECLASS-11.1	27242604
ECLASS-12.0	27242604
ETIM-5.0	EC001599
customs tariff number	85389099
customs tariff number	85389099
GTIN	4048879454216
GTIN	4048879454216
Packaging unit	1
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 (IEC 61508)	3
SIL CL (IEC 62061)	3

Electrical data | Supply

Norm operating voltage	EN 61131-2
Operating voltage UA DC	24 V
Operating current per pin max.	when using pin 1 and pin 5, when using pin 1 or pin 5, 0.2 A, 0.7 A
Total current UA max.	12 A
Total current US max.	12 A

Electrical data | Input

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

Electrical data | Output

Output current per pin (safety) max.	2 A
Total current outputs max.	8 A

Industrial communication

Supported protocol	PROFINET
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Industrial communication | Profinet

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

Diagnostics

Actuator warning	per channel via LED and BUS
Diagnostic	No voltage, Under voltage
Diagnostic via BUS	per module and channel
Diagnostic via LED	per module and channel
Wire break detection	yes
Short circuit diagnosis	yes
LED display	Ethernet connection/data traffic
Cross-link detection	Sensor/Actuator
Overload diagnosis	yes

Device protection | Electrical

Degree of protection (EN IEC 60529)	IP67
Overload resistant	yes
Short-circuit protected	yes

Mechanical data | Mounting data

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

Environmental characteristics | Climatic

Operating temperature min.	-20 °C
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Operating temperature max.	55 °C
Storage temperature min.	-40 °C
Storage temperature max.	70 °C

Connection type 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
Gender	female
Color contact carrier	yellow
Coding	A
No. of poles	5
PIN 1	n.c.
PIN 2	n.c.
PIN 3	Mx
PIN 4	Px
PIN 5	PE
Family construction form	M12
Gender	female
Color contact carrier	yellow
Coding	A
No. of poles	5
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	RJ45
Gender	female
Color contact carrier	black
No. of poles	8
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
Gender	male
Color contact carrier	green
No. of poles	5
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