

MVK Fusion

MVK PN FDI6/3 FDO2/1 DIO4 IOL2 IRT PP

Art.No.: 55510

Weight: 1.4

Country of origin: DE

Model designation: MVK PN FDI6/3 FDO2/1 DIO4 IOL2 IRT PP

One module for maximum variety

The special thing about MVK Fusion is its diversity. The PROFINET/PROFIsafe module combines three elementary functions of installation technology – digital standard sensors and actuators, digital safety-related sensors and actuators and IO-Link.

With MVK Fusion, fewer fieldbus modules are required per modular unit, in the best case just one. This offers attractive opportunities for a wide range of automation applications.

Further information on MVK Fusion can be found at Fieldbus module [MVK Fusion](#).

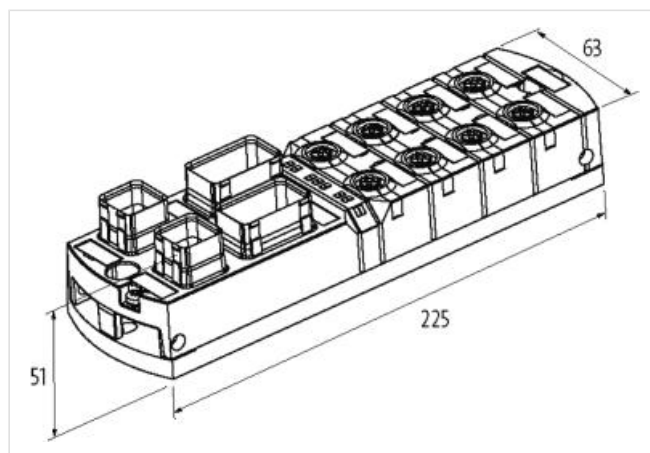
Connection cables are in the online shop under "Connection Technology".

Link to Product

Illustration



Product may differ from Image



Commercial data

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

customs tariff number	85389099
GTIN	4048879714983
Packaging unit	1

Safety codes

Service life	20 a
Category (EN ISO 13849-1)	4 (X0, X1, X2, X3); 3 (X7 PIN 3)
PFHd (IEC 61508)	7,8 E-10/h
PFHd (IEC 62061)	48 E-10/h
Performance level (EN ISO 13849-1)	e (X0, X1, X2, X3); d (X7 PIN 3)
SIL (IEC 61508)	3 (X0, X1, X2, X3); 2 (X7 PIN 3)
SIL CL (IEC 62061)	3

Electrical data | Supply

Norm operating voltage	EN 61131-2
Operating voltage US DC	24 V
Operating voltage UA DC	24 V
Total current US max.	16 A

Electrical data | Input

Type input	PNP, for 3-wire sensors or mechanical switches, IO-Link Devices
Number of F inputs	6
Overload resistant	yes
Short-circuit protected	yes
Type Safety input	for electronical sensors or mechanical switches
Sensor current US per input max.	0,7 A
Current carrying capacity max.	0,7 A

Electrical data | Output

Switching behavior safety output	2 FDO X3 (PIN 2, PIN 4: pp, pm, ppm switching); 1 FDO X7 (PIN 2: pp switching)
Overload resistant	yes
Short-circuit protected	yes
Output current per pin (safety) max.	2 A
Output current per pin 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 Netload Class	III
PROFINET addressing	DCP
PROFINET conformance class	C
PROFINET specification	V2.3
Shared device/input	yes

Industrial communication | IO-Link

IO-Link type	2× Master
Port Class	A, B
IO-Link revision ID	V1.1.2
IO-Link transmission rate	COM1, COM2, COM3
IO-Link process data length input	32 Bytes
IO-Link process data length output	32 Bytes
Automatic baudrate detection	yes

Diagnostics

Actuator warning	per channel via LED and BUS
Diagnostic via BUS	per module and channel
Diagnostic via LED	per module and channel
Wire break detection	yes
IO-Link events	No voltage, Undervoltage supply
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
Galvanic separation (operating voltage)	yes

Mechanical data | Mounting data

Suitable for mounting type	2-hole screw mounting
Height	51,2 mm
Width	63 mm
Depth	225 mm

Environmental characteristics | Climatic

Operating temperature min.	-20 °C
Operating temperature max.	60 °C
Storage temperature min.	-40 °C
Storage temperature max.	85 °C

Connection type 7

Connection type 1	X0-X2
Connection type 2	X3
Connection type 3	X4, X5
Connection type 4	X6
Connection type 5	X7
Connection type 6	XD1, XD2
Connection type 7	XF1, XF2
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	M12
Gender	female
Color contact carrier	yellow
Coding	A
No. of poles	5
PIN 1	n.c.
PIN 2	FDO
PIN 3	0 V (US 2)
PIN 4	FDO
PIN 5	n.c.
Family construction form	M12
Gender	female
Color contact carrier	black

Coding	A
No. of poles	5
PIN 1	24 V DC (US 2)
PIN 2	DI / DO
PIN 3	0 V (US 2)
PIN 4	DI / DO
PIN 5	PE
Family construction form	M12
Gender	female
Color contact carrier	gray
Coding	A
No. of poles	5
PIN 1	24 V DC (US 1)
PIN 2	DI
PIN 3	0 V (US 1)
PIN 4	DI / IO-Link
PIN 5	n.c.
Family construction form	M12
Gender	female
Color contact carrier	gray
Coding	A
No. of poles	5
PIN 1	24 V DC (US 1)
PIN 2	DO (US 2)
PIN 3	0 V (US 1)
PIN 4	DI / IO-Link
PIN 5	0 V (US 2)
Family construction form	Push Pull
Gender	male
Color contact carrier	green
No. of poles	5
PIN 1	24 V DC (US 1)
PIN 2	0 V (US 1)
PIN 3	24 V DC (US 2)
PIN 4	0 V (US 2)
PIN 5	PE
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.