MVK Fusion

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

Art.No.: 55510
Weight: 1,400 kg
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.

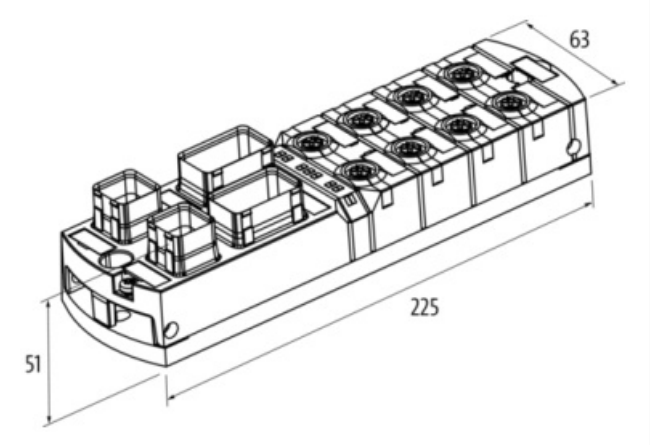
Further information on MVK Fusion can be found at Fieldbus moduleMVK Fusion.

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

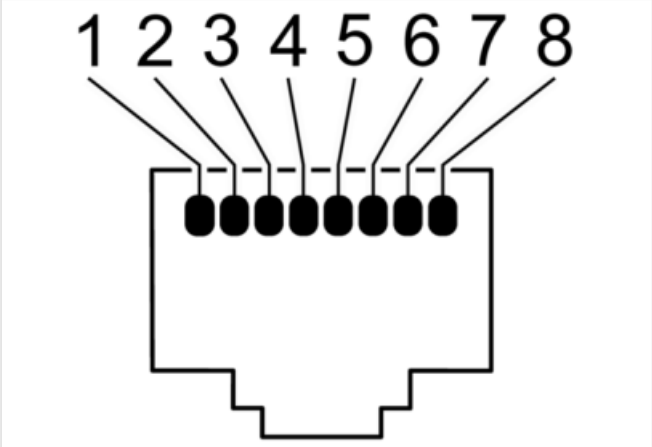
Link to Product

Illustration





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Product may differ from Image

Commercial data	
URL Webshop	https://shop.murrelektronik.com/55510
GTIN	4048879714983
EU-Customs tariff number	85389099
US-Customs tariff number	8538908180
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-9.0	EC001599
ETIM-10.0	EC001599
customs tariff number	85389099
EAN	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 (EN/IEC 61508, EN IEC 62061)	3 (X0, X1, X2, X3); 2 (X7 PIN 3)
SIL claim limit (EN IEC 62061)	3

Electrical data | Supply

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Norm operating voltage	IEC/EN 61131-2
Operating voltage US DC	24 V
Total current US max.	16 A
Operating voltage UA DC	24 V
Electrical data | Input	
Sensor current US per input max.	0,7 A
Current carrying capacity max.	0,7 A
Short-circuit protected	Yes
Overload resistant	Yes
Type input	for 3-wire sensors or mechanical switches, IO-Link Devices, PNP
Electrical data | Output	
Output current per pin max.	2 A
Output current per pin (safety) max.	2 A
Total current outputs max.	8 A
Overload resistant	Yes
Short-circuit protected	Yes
Switching behavior safety output	2 FDO X3 (PIN 2, PIN 4: pp, pm, ppm switching); 1 FDO X7 (PIN 2: pp switching)
Electrical data | F-Input	
Number of F inputs	6
Type Safety input	for electronical sensors or mechanical switches
Industrial communication | Bus data	
Supported protocol	PROFINET
Industrial communication | PROFINET	
Conformance Class	C
addressing	DCP
Netload Class	III
Specification	V2.3
IRT-network communication	Yes
MRP client	Yes
Shared device/input	Yes
Number of active connections (IO controller) max.	2
Industrial communication | IO-Link	
type	2× Master
Port Class	A, B
revision ID	V1.1.2
transmission rate	COM1, COM2, COM3
process data length input	32 byte
process data length output	32 byte
Automatic baudrate detection	automatic
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 via BUS	per module and channel
Diagnostic via LED	per module and channel
LED display	Ethernet connection/data traffic
IO-Link events	Undervoltage supply, No voltage
Device protection | Electrical	

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Degree of protection (EN IEC 60529)	IP67
Galvanic separation (operating voltage)	Yes
Mechanical data | Mounting data	
Height	51,2 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.	60 °C
Ambient temperature (storage, transport)	-40 °C … 85 °C
Connection type 7-7	
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
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	M12
No. of poles	5
Coding	A
Gender	female
Color contact carrier	yellow
PIN 1	n.c.
PIN 2	FDO
PIN 3	0 V (US 2)
PIN 4	FDO
PIN 5	n.c.
Family construction form	M12
No. of poles	5
Coding	A
Gender	female
Color contact carrier	black
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
No. of poles	5
Coding	A
Gender	female

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Color contact carrier	gray
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
No. of poles	5
Coding	A
Gender	female
Color contact carrier	gray
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
No. of poles	5
Gender	male
Color contact carrier	green
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
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.

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