

MVK Fusion with cooler

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

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

Housing fully potted.

Double safety output port

FDI6/3 FDO2/1 DIO4 IOL2 (IRT)

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

Push Pull Power connector, max. 16 A

M12, 5-pole, A-coded

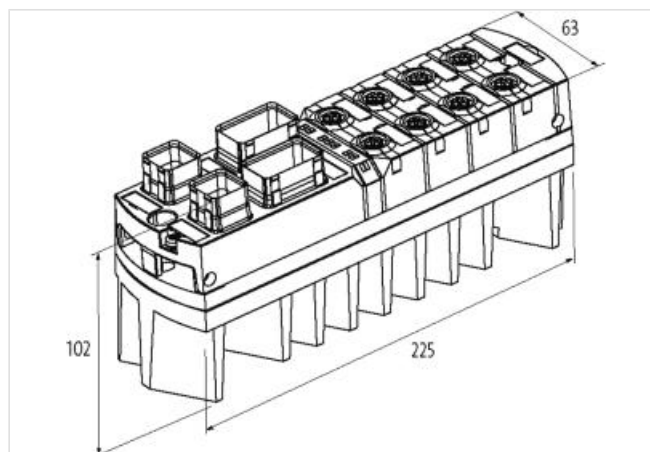
Galvanic isolation

with heat sink

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

[Link a termékhez](#)**Ábrák**

Szimbolikus ábra

**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	4048879735926
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	
Number of F inputs	6
Overload resistant	yes
Short-circuit protected	yes
Type Safety input	for electronical sensors or mechanical switches
Type input	PNP, for 3-wire sensors or mechanical switches, IO-Link Devices
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
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	102 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.