

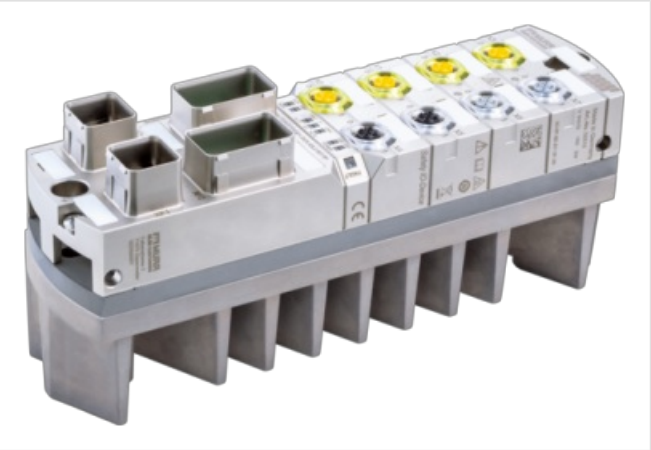
MVK Fusion with cooler

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

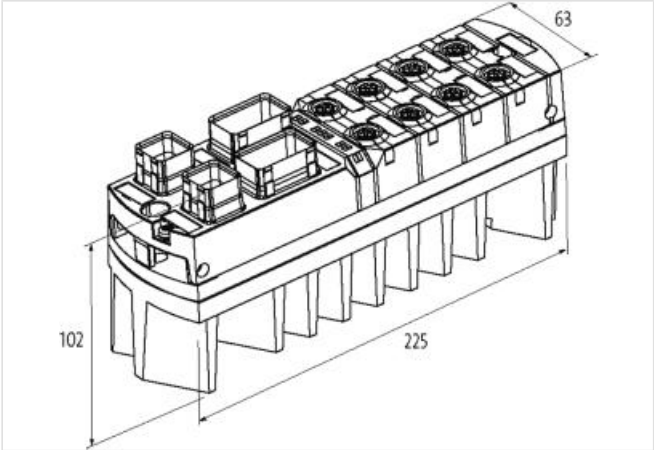
safe inputs/outputs up to cat.4/PLe (EN ISO 13849-1), up to SIL3 (IEC 61508), up to SILCL3 (IEC 62061)
Housing fully potted.
Double safety output port
FDI6/3 FDO2/1 DIO4 IOL2 (IRT)
Ethernet 10/100 Mbit/s; Push Pull RJ45 Data connector
Push Pull Power connector, max. 16 A
M12, 5-pole, A-coded
Galvanic isolation
with heat sink
Connection cables are in the online shop under "Connection Technology".

Link 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	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
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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
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Overload diagnosis	yes
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Device protection | Electrical

Degree of protection (EN IEC 60529)	IP67
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Galvanic separation (operating voltage)	yes
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Mechanical data | Mounting data

Suitable for mounting type	2-hole screw mounting
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Height	102 mm
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Width	63 mm
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Depth	225 mm
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Environmental characteristics | Climatic

Operating temperature min.	-20 °C
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Operating temperature max.	60 °C
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Storage temperature min.	-40 °C
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Storage temperature max.	85 °C
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Connection type 7

Connection type 1	X0-X2
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Connection type 2	X3
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Connection type 3	X4, X5
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Connection type 4	X6
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Connection type 5	X7
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Connection type 6	XD1, XD2
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Connection type 7	XF1, XF2
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Family construction form	M12
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Gender	female
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Color contact carrier	yellow
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Coding	A
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No. of poles	5
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PIN 1	24 V DC (US 1) Test Pulse P 4
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PIN 2	FDI
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PIN 3	0 V (US 1)
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PIN 4	FDI
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PIN 5	24 V DC (US 1) Test Pulse P 2
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Family construction form	M12
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Gender	female
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Color contact carrier	yellow
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Coding	A
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No. of poles	5
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PIN 1	n.c.
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PIN 2	FDO
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PIN 3	0 V (US 2)
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PIN 4	FDO
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PIN 5	n.c.
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Family construction form	M12
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Gender	female
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Color contact carrier	black
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Coding	A
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No. of poles	5
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PIN 1	24 V DC (US 2)
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PIN 2	DI / DO
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PIN 3	0 V (US 2)
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PIN 4	DI / DO
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PIN 5	PE
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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.