MVK MPNIO DI16 M12L 5P galvanic separation

MVK ProfiNet, metal

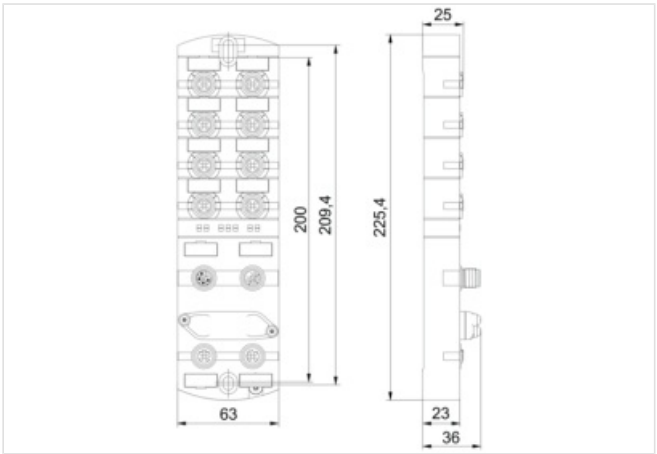
Art.No.: 55183
Weight: 0,925 kg
Country of origin: DE
Model designation: MVK MPNIO DI16 M12L 5P

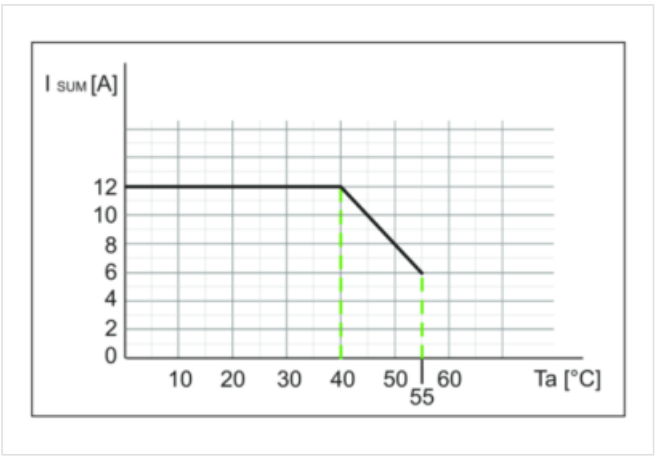
Digital inputs
DI16 (IRT)
Ethernet 10/100 Mbit/s; M12, D-coded
M12 power, 5-pin, L-coded, 2× max. 12 A
M12, 5-pole, A-coded
Fast-Start-Up (FSU)
Galvanic isolation
Connection cables are in the online shop under "Connection Technology".
Housing fully potted.

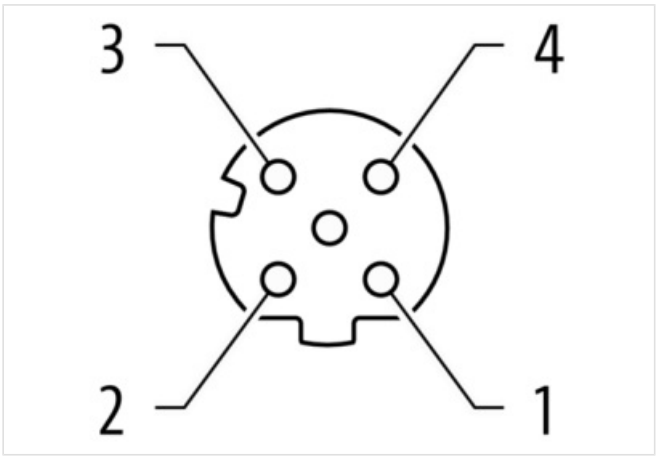
Link to Product

Illustration









Product may differ from Image

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Commercial data	
URL Webshop	https://shop.murrelektronik.com/55183
GTIN	4065909225240
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
customs tariff number	85389099
EAN	4065909225240
Packaging unit	1
Electrical data | Supply	
Norm operating voltage	IEC/EN 61131-2
Operating voltage US DC	24 V
Total current US max.	12 A
Total current UA max.	12 A
Idle current max.	130 mA
Actuator current UA	max. 12 A
Sensor current	max. 12 A
Electrical data | Input	
Sensor current US per input max.	0.2 A
Short-circuit protected	Yes
Overload resistant	Yes
Input characteristic (IEC 61131-2)	Type 2
filter time	1 ms
Type input	for 3-wire sensors or mechanical switches, PNP
Sensor supply per port max.	max. 200 mA @ DI
Industrial communication | Bus data	
Supported protocol	PROFINET
Industrial communication | PROFINET	
Conformance Class	C
addressing	DCP
PROFIenergy	Yes
Netload Class	III
Specification	V2.3
Cycle time min.	1 ms
IRT-network communication	Yes
IRT-application	No
MRP client	Yes
Fast-Start-Up (FSU)	Yes
Fast start up time max.	500 s

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Shared device/input	Yes
Diagnostics	
Actuator warning	per channel via LED and BUS
Cable break	per port
Diagnostic	No voltage, Under voltage
Diagnostic via BUS	per module and channel
Diagnostic via LED	per module and channel
LED display	Ethernet connection/data traffic
Device protection | Electrical	
Installation height max. ASL	3000 m
Degree of protection (EN IEC 60529)	IP67
Protection class (EN IEC 61140)	III
Additional condition protection class	Power supply must comply with SELV or PELV
Invers-polarity protection	Yes
Pollution Degree	2
Over voltage protection	Yes
Overload protection device supply	Yes
Short circuit protection sensor supply	electronic
Protective circuitry input	Internal, Suppressor diode
Galvanic separation US/UA	Yes
Device protection | Mechanical	
Shock resistance (EN IEC 60068-2-27)	50 g 11 ms
Mechanical data | Material data	
housing	Zinc die-casting
Mechanical data | Mounting data	
Net weight	925 g
Height	225 mm
Width	63 mm
Depth	37.4 mm
Suitable for mounting type	2-hole screw mounting
Environmental characteristics | Electromagnetic compatibility	
Interference emission	EN 55016-2-3
Immunity to interference	EN/IEC 61000-4-2, EN IEC 61000-4-3, EN/IEC 61000-4-4, EN/IEC 61000-4-5, EN IEC 61000-4-6
Environmental characteristics | Climatic	
Ambient temperature (operation)	-25 °C … 55 °C
Ambient temperature (storage, transport)	-25 °C … 70 °C
Relative humidity (operation)	95 %
Relative humidity (storage, transport)	max. 95 %
Technical Data | Reliability	
MTTF (EN/IEC 61709, EN ISO 13849-1, SN 29500)	86 a @ 40 °C
Environmental product conformity	
REACH ((EC) 1907/2006)	compliant
RoHS (2011/65/EU, (EU) 2015/863)	compliant
RoHS-Exemption (2011/65/EU)	6(c), 7(a), 7(c)-I
China RoHS (SJ/T 11364, GB/T 26572)	EFUP-25
WEEE (2012/19/EU)	compliant
Conformity	
Product standard	EN 61131-2
CE	2014/30/EU, 2011/65/EU

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UKCA	The Electromagnetic Compatibility Regulations 2016, The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Approvals	
UL Listed (US, CA)	E201820
UL-Standard	UL 61010-2-201, UL 61010-1
CSA-Standard	CAN/CSA-C22.2 No. 61010-2-201, CAN/CSA-C22.2 No. 61010-1-12

Connection type 4-4	
Connection type 1	X0-X7
Connection type 2	XD1
Connection type 3	XD2
Connection type 4	XF1, XF2
Family construction form	M12
No. of poles	5
Coding	A
Gender	female
Color contact carrier	black
PIN 1	24 V DC (US)
PIN 2	DI
PIN 3	0 V (US)
PIN 4	DI
PIN 5	PE
Family construction form	M12
No. of poles	5
Coding	L
Gender	male
Color contact carrier	black
PIN 1	24 V DC (US)
PIN 2	0 V (UA)
PIN 3	0 V (US)
PIN 4	24 V DC (UA)
PIN 5	PE
Family construction form	M12
No. of poles	5
Coding	L
Gender	female
Color contact carrier	black
PIN 1	24 V DC (US)
PIN 2	0 V (UA)
PIN 3	0 V (US)
PIN 4	24 V DC (UA)
PIN 5	PE
Family construction form	M12
No. of poles	4
Coding	D
Gender	female
Color contact carrier	black
Mounting method	inserted, screwed
Tightening torque	0.6 Nm
PIN 1	TD +
PIN 2	RD +
PIN 3	TD -
PIN 4	RD -
PIN 5	n.c.

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