MVK Pro MEC DIO8 IOL8 4A M12L 5P

EtherCAT, compact module, metal

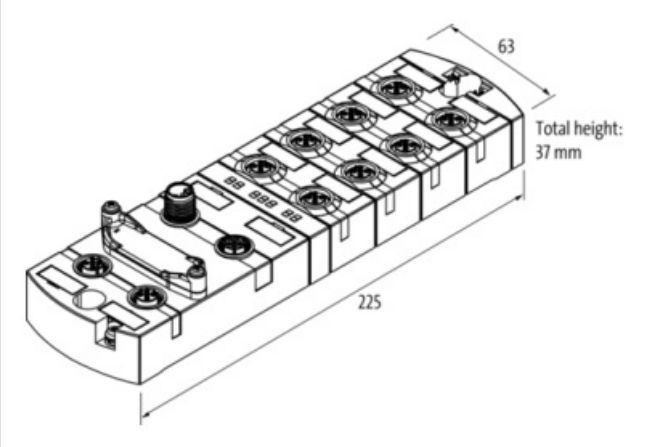
Art.No.: 54617
Weight: 0,920 kg
Country of origin: DE
Model designation: MVK Pro MEC DIO8 IOL8 4A M12L 5P

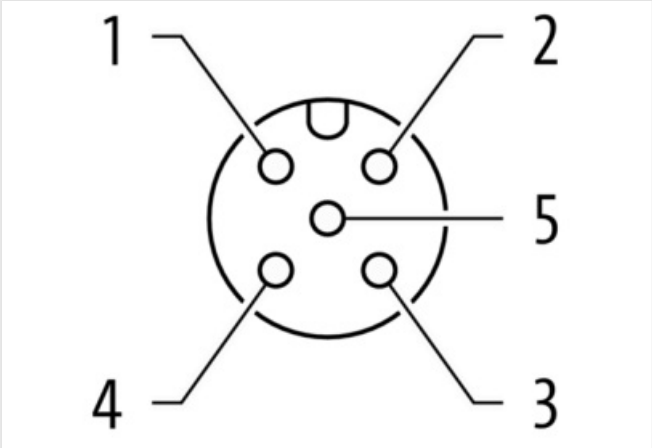
Digital inputs/outputs
IO-Link Master V1.1
M12 Power, 5-pole, L-coded
M12, 5-pole, A-coded
Housing fully potted.
Connection cables are in the online shop under "Connection Technology".
mounting compatible with I/O modules of the MVK series

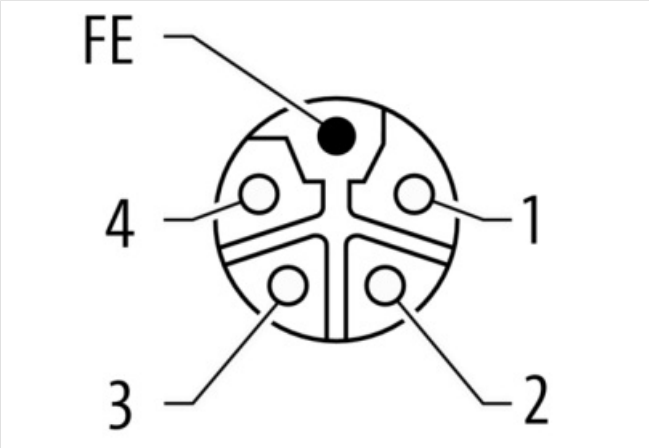
Link to Product

Illustration









Product may differ from Image

Commercial data

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Manufacturer name	Murrelektronik GmbH
Manufacturer address	Grabenstraße 29, 71570 Oppenweiler, GERMANY
URL Webshop	https://shop.murrelektronik.com/54617
GTIN	4065909180709
EU-Customs tariff number	85389099
Intended use	For professional use only, Indoor use only
Suitable for outdoor use	No
ECLASS-6.0	27242604
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-5.0	EC001599
ETIM-6.0	EC001599
ETIM-7.0	EC001599
ETIM-8.0	EC001599
ETIM-9.0	EC001599
ETIM-10.0	EC001599
Contents per packing unit	1
customs tariff number	85389099
EAN	4065909180709
Packaging unit	1
Electrical data | Supply	
Protective measure	SELV/PELV
Operating voltage type	DC
Operating voltage US DC	24 V
Operating voltage UA DC	24 V
Operating voltage IO-Link DC min.	20 V
Operating voltage IO-Link DC max.	30 V
Idle current max.	0.18 A
Sensor current US	max. 16 A
Sensor current US (UL)	max. 8 A
Actor current UA (UL)	max. 8 A
Actuator current UA	max. 16 A
Electrical data | Input	
Input characteristic (IEC 61131-2)	Type 1, Type 3
Number of digital inputs	8
Sensor supply per port max.	max. 4 A @ load, Automatic restart
Processing time for signal change	min. 2 ms
Processing time for signal change	max. 5 ms
filter time	min. 0 ms … max. 15 ms, Tcycle, adjustable
Total current per port max.	max. 4 A, when using pin 3/5
Electrical data | Output	

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Number of digital outputs	8
Output current per pin max.	4 A
Switching frequency max.	50 Hz
Total current per port max.	max. 4 A, when using pin 3/5
Industrial Communication	
Digital inputs configurable	Yes
Industrial communication | Bus data	
Supported protocol	EtherCAT
Sync-Manager (SM)	4
Industrial communication | EtherCAT	
Supported protocols	AoE, CANopen over EtherCAT (CoE), Ethernet over EtherCAT (EoE), File Access over EtherCAT (FoE)
transmission rate	100 Mbit/s
Addressing	Auto-Increment, Fixed-Position
Specification	ETG.5001.6220 S
Function	EtherCAT State Machine (ESM), EtherCAT Emergency (EMCY)
Sync-Manager (SM)	4
FMMU	8
Industrial communication | IO-Link	
transmission rate	COM1 (4.8 kbit/s), COM2 (38.4 kbit/s), COM3 (230.4 kbit/s)
Automatic baudrate detection	automatic
Industrial communication | IIoT functions	
JSON integration	REST-API, MQTT
Diagnostics	
Temperature control	Yes
Current Monitoring	Yes
Voltage monitoring	Yes
Device protection | Electrical	
Installation height max. ASL	3000 m
Degree of protection (EN IEC 60529)	IP67
Protection class (EN IEC 61140)	III
Invers-polarity protection	Yes
Pollution Degree	2
Over voltage protection	Yes
Overload protection device supply	to be ensured through load circuit monitoring
Short circuit protection sensor supply	electronic
Protective circuitry input	Internal, Suppressor diode
Short-circuit protection output	electronic
Device protection | Mechanical	
Shock resistance (EN IEC 60068-2-27)	50 g 11 ms
Vibration resistance (EN IEC 60068-2-6)	0,35 mm (10 ... 58 Hz), 20 g (58 ... 150 Hz)
Device protection | Media	
Flame resistance	flame retardant
Mechanical data | Material data	
housing	Zinc die-casting
Mechanical data | Mounting data	
Net weight	920 g
Height	224.5 mm
Width	63 mm
Depth	37.4 mm

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Mounting method	screwed
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, EN IEC 61000-4-11
Environmental characteristics | Climatic	
Ambient temperature (operation)	-40 °C … 70 °C
Ambient temperature (storage, transport)	-40 °C … 85 °C
Relative humidity (operation)	5 % … 95 %
Additional condition temperature range	provide acclimatization for commissioning
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)
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
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
Connection type 4-4	
Connection type 1	X0, X1, X2, X3, X4, X5, X6, 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	gray
PIN 1	24 V DC
PIN 2	DI / DO
PIN 3	0 V
PIN 4	DI / DO / IO-Link
PIN 5	0 V
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
PIN 3	0 V
PIN 4	24 V DC (UA)
PIN 5	PE
Family construction form	M12
No. of poles	5
Coding	L
Gender	female

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Color contact carrier	black
PIN 1	24 V DC (US)
PIN 2	0 V
PIN 3	0 V
PIN 4	24 V DC (UA)
PIN 5	PE
Family construction form	M12
No. of poles	5
Coding	D
Gender	female
Color contact carrier	green
PIN 1	TD +
PIN 2	RD +
PIN 3	TD -
PIN 4	RD -
PIN 5	n.c.

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