

MVK Pro ME DIO8 IOL8 M12L 5P

Ethernet/IP, compact module, metal

Digital inputs/outputs  
Ethernet 10/100 Mbit/s; M12, D-coded  
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          |               |
|--------------------------|---------------|
| ECLASS-6.0               | 27242604      |
| 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      |
| ETIM-5.0                 | EC001599      |
| customs tariff number    | 85389099      |
| GTIN                     | 4048879859950 |
| Packaging unit           | 1             |
| Electrical data   Supply |               |
| Norm operating voltage   | EN 61131-2    |
| Operating voltage US DC  | 24 V          |
| Operating voltage UA DC  | 24 V          |
| Total current UA max.    | 16 A          |

Total current US max. 16 A

#### Electrical data | Input

|                                  |                                                                 |
|----------------------------------|-----------------------------------------------------------------|
| Overload resistant               | yes                                                             |
| Short-circuit protected          | yes                                                             |
| Type input                       | PNP, for 3-wire sensors or mechanical switches, IO-Link Devices |
| Sensor current US per input max. | 2 A                                                             |
| Current carrying capacity max.   | 10 A                                                            |

#### Electrical data | Output

|                                     |      |
|-------------------------------------|------|
| Actuator current UA per output max. | 2 A  |
| Overload resistant                  | yes  |
| Short-circuit protected             | yes  |
| Output current per pin max.         | 2 A  |
| Max. current output per port        | 4 A  |
| Total current output max.           | 10 A |

#### Industrial communication

|               |     |
|---------------|-----|
| Web interface | yes |
|---------------|-----|

#### Industrial communication | Ethernet/IP

|                         |                         |
|-------------------------|-------------------------|
| CIP Sync                | yes                     |
| Composite Test Revision | CT16                    |
| DLR (Device Level Ring) | yes                     |
| EtherNet/IP addressing  | BOOTP, DHCP, DIP switch |
| Multiple connections    | yes                     |

#### Industrial communication | IO-Link

|                                    |                  |
|------------------------------------|------------------|
| Automatic baudrate detection       | yes              |
| IO-Link process data length output | 32 Bytes         |
| IO-Link process data length input  | 32 Bytes         |
| IO-Link revision ID                | V1.1             |
| IO-Link type                       | 8x Master        |
| IO-Link transmission rate          | COM1, COM2, COM3 |
| Port Class                         | A, B             |

#### Industrial communication | IIoT functions

|                                          |                                                    |
|------------------------------------------|----------------------------------------------------|
| Number of sessions / clients OPC UA max. | 5                                                  |
| JSON integration                         | REST-API, MQTT                                     |
| OPC UA transport                         | UA TCP, UA Secure Conversation, UA Binary Encoding |
| Voltage monitoring                       | yes                                                |
| Current Monitoring                       | yes                                                |
| Publishing interval OPC UA min.          | 100 ms                                             |

#### Diagnostics

|                         |                                  |
|-------------------------|----------------------------------|
| Actuator warning        | per channel via LED and BUS      |
| Diagnostic via BUS      | per module and channel           |
| Diagnostic via LED      | per module and channel           |
| IO-Link events          | No voltage, Undervoltage supply  |
| Short circuit diagnosis | yes                              |
| LED display             | Ethernet connection/data traffic |
| Cable break             | per port                         |
| Temperature control     | yes                              |
| Overload diagnosis      | yes                              |

#### Device protection | Electrical

|                                     |      |
|-------------------------------------|------|
| Degree of protection (EN IEC 60529) | IP67 |
|-------------------------------------|------|

#### Mechanical data | Mounting data

|                            |                       |
|----------------------------|-----------------------|
| Suitable for mounting type | 2-hole screw mounting |
|----------------------------|-----------------------|

|        |        |
|--------|--------|
| Height | 42 mm  |
| Width  | 63 mm  |
| Depth  | 225 mm |

#### Environmental characteristics | Climatic

|                            |        |
|----------------------------|--------|
| Operating temperature min. | -40 °C |
| Operating temperature max. | 70 °C  |
| Storage temperature min.   | -40 °C |
| Storage temperature max.   | 80 °C  |

#### Connection type 4

|                          |                   |
|--------------------------|-------------------|
| Connection type 1        | X1-X7             |
| Connection type 2        | XD1               |
| Connection type 3        | XD2               |
| Connection type 4        | XF1, XF2          |
| Family construction form | M12               |
| Gender                   | female            |
| Color contact carrier    | gray              |
| Coding                   | A                 |
| No. of poles             | 5                 |
| 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               |
| Gender                   | male              |
| Color contact carrier    | black             |
| Coding                   | L                 |
| No. of poles             | 5                 |
| 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               |
| Gender                   | female            |
| Color contact carrier    | black             |
| Coding                   | L                 |
| No. of poles             | 5                 |
| 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               |
| Gender                   | female            |
| Color contact carrier    | green             |
| Coding                   | D                 |
| No. of poles             | 4                 |
| PIN 1                    | TD +              |
| PIN 2                    | RD +              |
| PIN 3                    | TD -              |
| PIN 4                    | RD -              |