

**MVK Pro MEC DIO8 IOL8 M12L 5P**

EtherCAT, compact module, metal

Digital inputs/outputs

IO-Link Master V1.1.3

M12 Power, 5-pole, L-coded

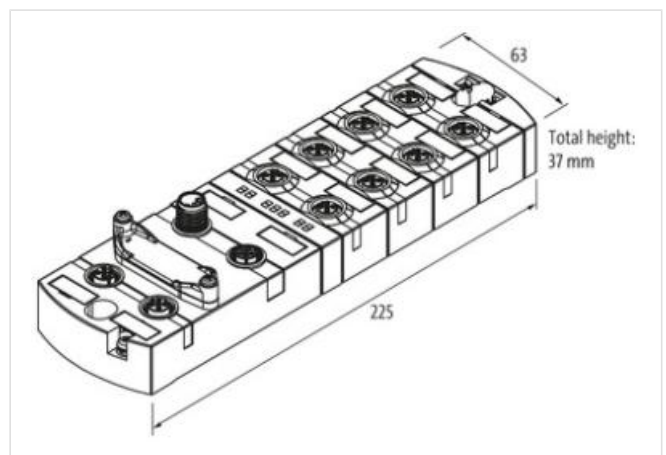
M12, 5-pole, A-coded

Housing fully potted.

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

**[Link to Product](#)****Illustration**

Product may differ from Image

**General data**

|                   |                                                                       |
|-------------------|-----------------------------------------------------------------------|
| Mounting method   | 2-hole screw mounting, compatible with I/O modules of MVK model range |
| Temperature range | -25...+70 °C (storage temperature -40...+80 °C)                       |
| Protection        | IP67                                                                  |
| Dimensions H×W×D  | 42×63×225 mm                                                          |

**Output**

|                              |                                                                            |
|------------------------------|----------------------------------------------------------------------------|
| Actuator supply UA           | 24 V DC (EN 61131-2), max. 10 A Port X0...X7                               |
| Switching current per output | max. 2 A per pin (short-circuit and overload-protected), max. 4 A per port |

**Input**

|                  |                                                                                                                  |
|------------------|------------------------------------------------------------------------------------------------------------------|
| Sensor supply US | 24 V DC (EN 61131-2), max. 2 A load per port, short-circuit and overload protected, total max. 10 A port X0...X7 |
| Type             | for 3-wire sensors or mechanical switches, PNP, IO-Link Devices                                                  |

**IIoT Functions**

|                          |                                   |
|--------------------------|-----------------------------------|
| IIoT Interfaces          | yes (OPC UA, MQTT, JSON REST API) |
| Web interface            | yes                               |
| Monitoring - temperature | yes                               |
| Monitoring - energy      | yes (current and voltage)         |

**IO-Link**

|                     |                                             |
|---------------------|---------------------------------------------|
| Specification       | IO-Link Master V1.1.3                       |
| Port Class          | Class A + B (not galvanically separated)    |
| IO-Link             | 8× Master                                   |
| Transfer parameters | 32 Byte (In) 32 Byte (Out) per IO-Link port |
| Operating modes     | COM1; COM2; COM3 (automatic)                |

**Parameterization**

The information in this brochure has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2022-11-13

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|                                        |                                                                        |
|----------------------------------------|------------------------------------------------------------------------|
| PIN 4                                  | Input/output (port X0...X7); IO-Link master (port X0...X7)             |
| PIN 2                                  | Input/Output (port X0...X7); U-Actuator IO-Link Class B (port X0...X7) |
| <b>Connections</b>                     |                                                                        |
| Fieldbus                               | Ethernet 10/100 Mbit/s; M12, D-coded                                   |
| Sensor-system/actuator supply          | M12 Power, 5-pole, L-coded, 2× max. 16 A                               |
| I/O ports                              | M12, 5-pole, A-coded                                                   |
| <b>EtherCAT</b>                        |                                                                        |
| FMMU                                   | 8                                                                      |
| SYNC manager                           | 4                                                                      |
|                                        | ESM; EMCY                                                              |
| Protocols                              | CoE; FoE; EoE; AoE                                                     |
| Product article number of manufacturer | 54612                                                                  |
| <b>Diagnostic</b>                      |                                                                        |
| Communication status                   | via LED                                                                |
| Diagnostic via LED                     | per module and channel                                                 |
| Diagnostic via BUS                     | per module and channel                                                 |
| Actuator warning                       | per channel via LED and BUS                                            |
| Monitoring - under voltage             | yes                                                                    |
| Monitoring - no voltage                | yes                                                                    |
| Short-circuit and overload             | yes                                                                    |
| Cable break                            | per port                                                               |