

MVK-MPNIO DIO16 M12L 4P

ProfiNet, Compact module, metal

Digital inputs/outputs  
DIO16 (IRT)  
Ethernet 10/100 Mbit/s; M12, D-coded  
M12 Power, 4-pole, L-coded  
M12, 5-pole, A-coded  
Connection cables are in the online shop under "Connection Technology".  
Housing fully potted.

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                     | 4048879735780 |
| 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 |
| Sensor current US per input max.                  | 0,2 A                                          |
| Electrical data   Output                          |                                                |
| Overload resistant                                | yes                                            |
| Short-circuit protected                           | yes                                            |
| Output current per pin max.                       | 1,6 A                                          |
| Lamp load                                         | 10 W                                           |
| Total current output max.                         | 9 A                                            |
| Industrial communication                          |                                                |
| Supported protocol                                | PROFINET                                       |
| Industrial communication   Profinet               |                                                |
| Number of active connections (IO controller) max. | 2                                              |
| FSU (Fast-Start-Up)                               | yes                                            |
| Fast start up time max.                           | 0,5 s                                          |
| 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                                            |
| Diagnostics                                       |                                                |
| Actuator warning                                  | per channel via LED and BUS                    |
| Diagnostic                                        | No voltage, Under voltage                      |
| Diagnostic via BUS                                | per module and channel                         |
| Diagnostic via LED                                | per module and channel                         |
| Short circuit diagnosis                           | yes                                            |
| LED display                                       | Ethernet connection/data traffic               |
| Cable break                                       | per port                                       |
| 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                                            | 37 mm                                          |
| Width                                             | 63 mm                                          |
| Depth                                             | 225 mm                                         |
| Environmental characteristics   Climatic          |                                                |
| Operating temperature min.                        | -25 °C                                         |
| Operating temperature max.                        | 60 °C                                          |
| Storage temperature min.                          | -25 °C                                         |
| Storage temperature max.                          | 70 °C                                          |
| Connection type 4                                 |                                                |
| Connection type 1                                 | X4-X7                                          |
| Connection type 2                                 | XD1                                            |
| Connection type 3                                 | XD2                                            |
| Connection type 4                                 | XF2                                            |

|                          |                   |
|--------------------------|-------------------|
| Family construction form | M12               |
| Gender                   | female            |
| Color contact carrier    | black             |
| Coding                   | A                 |
| No. of poles             | 5                 |
| PIN 1                    | 24 V DC           |
| PIN 2                    | DI / DO           |
| PIN 3                    | 0 V               |
| PIN 4                    | DI / DO           |
| PIN 5                    | PE                |
| 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                    | n.c.              |
| Family construction form | M12               |
| Gender                   | female            |
| Color contact carrier    | black             |
| Coding                   | L                 |
| No. of poles             | 4                 |
| PIN 1                    | 24 V DC (US)      |
| PIN 2                    | 0 V               |
| PIN 3                    | 0 V               |
| PIN 4                    | 24 V DC (UA)      |
| Mounting method          | inserted, screwed |
| Tightening torque        | 0,6 Nm            |
| Family construction form | M12               |
| Gender                   | female            |
| Color contact carrier    | black             |
| Coding                   | D                 |
| No. of poles             | 4                 |
| PIN 1                    | TD +              |
| PIN 2                    | RD +              |
| PIN 3                    | TD -              |
| PIN 4                    | RD -              |