

### MVK MPNIO DO16 galvanic separation

MVK PROFINET compact module, metal

Art.No.: 54532

Weight: 0.951

Country of origin: DE

Model designation: MVK MPNIO DO16

Digital outputs

DO16 (IRT)

Ethernet 10/100 Mbit/s; M12, D-coded

7/8", 5-pole, max. 9 A, protection against reverse polarization

M12, 5-pole, A-coded

FSU (Fast-Start-Up)

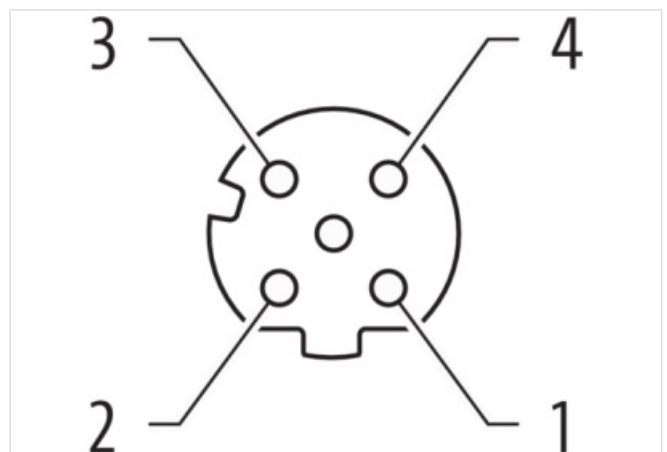
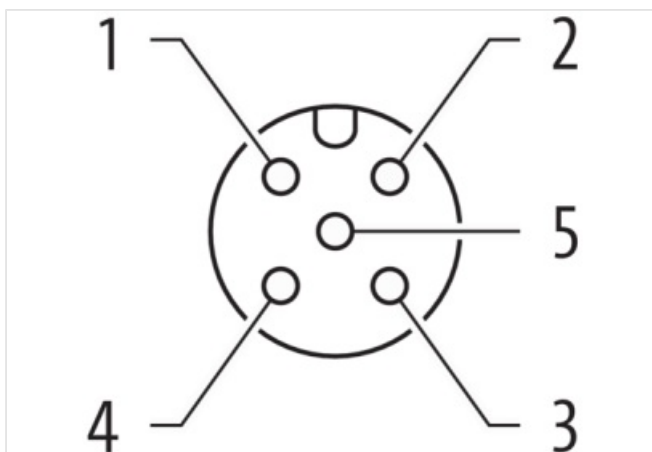
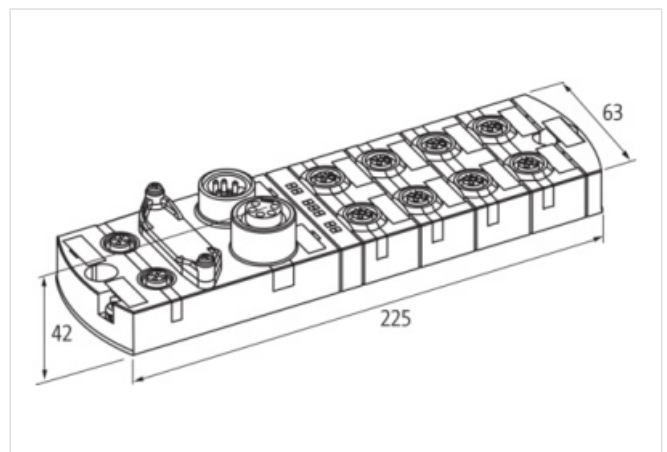
Galvanic isolation

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

Housing fully potted.

### [Link to Product](#)

#### Illustration



Product may differ from Image



| Header                                            |                                                                                           |
|---------------------------------------------------|-------------------------------------------------------------------------------------------|
| Material short text                               | MVK MPNIO DO16                                                                            |
| Commercial data                                   |                                                                                           |
| URL Webshop                                       | <a href="https://shop.murrelektronik.com/54532">https://shop.murrelektronik.com/54532</a> |
| GTIN                                              | 4048879829373                                                                             |
| 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                                               | 4048879829373                                                                             |
| Packaging unit                                    | 1                                                                                         |
| Electrical data   Supply                          |                                                                                           |
| Norm operating voltage                            | IEC/EN 61131-2                                                                            |
| Total current US max.                             | 9 A                                                                                       |
| Operating voltage UA DC                           | 24 V                                                                                      |
| Total current UA max.                             | 9 A                                                                                       |
| Electrical data   Output                          |                                                                                           |
| Output current per pin max.                       | 2 A                                                                                       |
| Overload resistant                                | yes                                                                                       |
| Short-circuit protected                           | yes                                                                                       |
| Industrial communication                          |                                                                                           |
| Supported protocol                                | PROFINET                                                                                  |
| Industrial communication   Profinet               |                                                                                           |
| PROFINET conformance class                        | C                                                                                         |
| PROFINET addressing                               | DCP                                                                                       |
| PROFINET Netload Class                            | III                                                                                       |
| PROFINET specification                            | V2.3                                                                                      |
| IRT (network communication)                       | yes                                                                                       |
| MRP client                                        | yes                                                                                       |
| FSU (Fast-Start-Up)                               | yes                                                                                       |
| Fast start up time max.                           | 0.5 s                                                                                     |
| Shared device/input                               | yes                                                                                       |
| Number of active connections (IO controller) max. | 2                                                                                         |
| Diagnostics                                       |                                                                                           |
| Actuator warning                                  | per channel via LED and BUS                                                               |
| Short circuit diagnosis                           | yes                                                                                       |
| Overload diagnosis                                | yes                                                                                       |
| 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

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

#### Mechanical data | Mounting data

|                            |                       |
|----------------------------|-----------------------|
| Height                     | 39 mm                 |
| Width                      | 63 mm                 |
| Depth                      | 225 mm                |
| Suitable for mounting type | 2-hole screw mounting |

#### Environmental characteristics | Climatic

|                            |        |
|----------------------------|--------|
| Operating temperature min. | -25 °C |
| Operating temperature max. | 55 °C  |
| Storage temperature min.   | -25 °C |
| Storage temperature max.   | 70 °C  |

#### Connection type 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                    | n.c.         |
| PIN 2                    | DO (UA)      |
| PIN 3                    | 0 V (UA)     |
| PIN 4                    | DO (UA)      |
| PIN 5                    | PE           |
| Family construction form | 7/8"         |
| No. of poles             | 5            |
| Gender                   | male         |
| Color contact carrier    | Black        |
| PIN 1                    | 0 V (UA)     |
| PIN 2                    | 0 V (US)     |
| PIN 3                    | PE           |
| PIN 4                    | 24 V DC (US) |
| PIN 5                    | 24 V DC (UA) |
| Family construction form | 7/8"         |
| No. of poles             | 5            |
| Gender                   | female       |
| Color contact carrier    | Black        |
| PIN 1                    | 0 V (UA)     |
| PIN 2                    | 0 V (US)     |
| PIN 3                    | PE           |
| PIN 4                    | 24 V DC (US) |
| PIN 5                    | 24 V DC (UA) |
| Family construction form | M12          |
| No. of poles             | 4            |
| Coding                   | D            |
| Gender                   | female       |

|                       |       |
|-----------------------|-------|
| Color contact carrier | green |
| PIN 1                 | TD +  |
| PIN 2                 | RD +  |
| PIN 3                 | TD -  |
| PIN 4                 | RD -  |