

**MVP12-P6 DIO16 8xM12A IOLA12 B0**

IO-Link Class A I/O module

Art.No.: 59719

Weight: 0.2

Country of origin: DE

Model designation: MVP12-P6 DIO16 8xM12A IOLA12 B0

IO-Link hub in 50 mm plastic housing

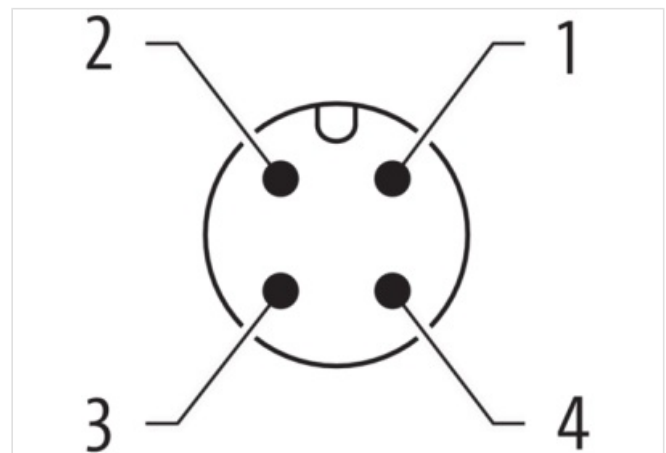
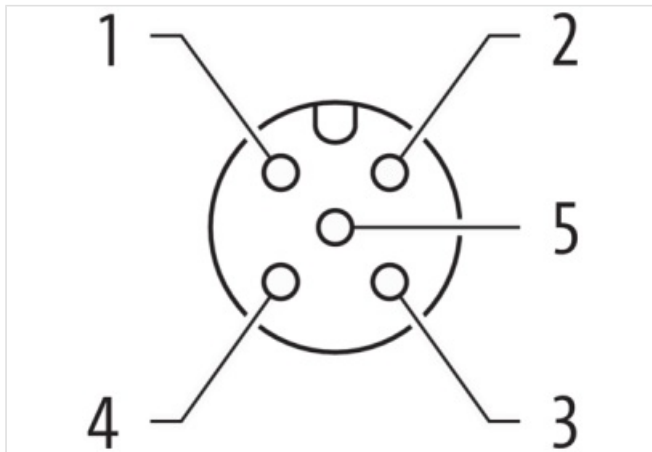
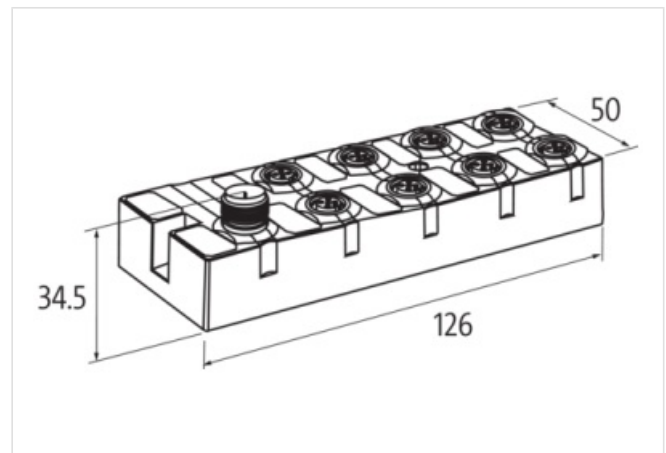
1 × M12 IO-Link Class A

8 × M12 I/O

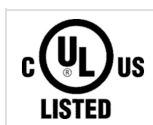
16 configurable digital inputs/outputs

Preconfigured parameter range

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

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

Product may differ from Image

**Header**

Material short text

MVP12-P6 DIO16 8xM12A IOLA12 B0

| Commercial data                    |                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------|
| URL Webshop                        | <a href="https://shop.murrelektronik.com/59719">https://shop.murrelektronik.com/59719</a> |
| GTIN                               | 4048879865036                                                                             |
| 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                                                                                  |
| customs tariff number              | 85389099                                                                                  |
| EAN                                | 4048879865036                                                                             |
| Packaging unit                     | 1                                                                                         |
| Electrical data   Supply           |                                                                                           |
| Operating voltage DC               | 24 V                                                                                      |
| Operating voltage US DC            | 24 V                                                                                      |
| Operating voltage US DC min.       | 18 V                                                                                      |
| Operating voltage US DC max.       | 30 V                                                                                      |
| Total current US max.              | 4 A                                                                                       |
| Current consumption max.           | 40 mA                                                                                     |
| Electrical data   Input            |                                                                                           |
| Sensor current per input max.      | 0.5 A                                                                                     |
| Input filter time                  | 1 ms                                                                                      |
| Type input                         | Type 3, Type 1                                                                            |
| Electrical data   Output           |                                                                                           |
| Output current per pin max.        | 0.5 A                                                                                     |
| Industrial communication   IO-Link |                                                                                           |
| IO-Link type                       | Device                                                                                    |
| Port Class                         | A                                                                                         |
| IO-Link revision ID                | V1.1.2                                                                                    |
| IO-Link transmission rate          | COM3 (230.4 kbit/s)                                                                       |
| IO-Link process data length input  | 2 bytes                                                                                   |
| IO-Link process data length output | 2 bytes                                                                                   |
| IO-Link cycle time min.            | 1 ms                                                                                      |
| IO-Link revision compatibility     | V1.1.3                                                                                    |
| Diagnostics                        |                                                                                           |
| Actuator warning                   | yes                                                                                       |
| Short circuit diagnosis            | yes                                                                                       |
| Overload diagnosis                 | yes                                                                                       |
| Diagnostic via LED                 | per module and channel                                                                    |
| Status indication LED              | green                                                                                     |
| LED display                        | Ethernet connection/data traffic                                                          |

The information in this Product-PDF has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-11-05

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IO-Link events

Undervoltage supply, No voltage

| Device protection   Electrical           |                       |
|------------------------------------------|-----------------------|
| Installation height max. ASL             | 3,000 m               |
| Degree of protection (EN IEC 60529)      | IP68                  |
| Overload resistant                       | yes                   |
| Short-circuit protected                  | yes                   |
| Mechanical data   Mounting data          |                       |
| Height                                   | 126 mm                |
| Width                                    | 50 mm                 |
| Depth                                    | 34.5 mm               |
| Suitable for mounting type               | 2-hole screw mounting |
| Environmental characteristics   Climatic |                       |
| Operating temperature min.               | -25 °C                |
| Operating temperature max.               | 70 °C                 |
| Storage temperature min.                 | -40 °C                |
| Storage temperature max.                 | 85 °C                 |
| Conformity                               |                       |
| Product standard                         | IEC/EN 61131-2        |
| Connection type 2                        |                       |
| Connection type 1                        | X0-X7                 |
| Connection type 2                        | XZ1                   |
| Family construction form                 | M12                   |
| No. of poles                             | 5                     |
| Coding                                   | A                     |
| Gender                                   | female                |
| Color contact carrier                    | black                 |
| PIN 1                                    | 24 V DC (US)          |
| PIN 2                                    | DIO (US)              |
| PIN 3                                    | 0 V (US)              |
| PIN 4                                    | DIO (US)              |
| PIN 5                                    | PE                    |
| Family construction form                 | M12                   |
| No. of poles                             | 5                     |
| Coding                                   | A                     |
| Gender                                   | male                  |
| PIN 1                                    | 24 V DC (US) (L +)    |
| PIN 2                                    | n.c.                  |
| PIN 3                                    | 0 V (US) (L -)        |
| PIN 4                                    | C / Q / IO-Link       |
| PIN 5                                    | n.c.                  |