**MVK Fusion with cooler**

MVK PN FDI6/3 FDO2/1 DIO4 IOL2 IRT PP K

Art.No.: 5551001
Weight: 2,000 kg
Country of origin: DE
Model designation: MVK PN FDI6/3 FDO2/1 DIO4 IOL2 IRT PP K

**One module for maximum variety**

The special thing about MVK Fusion is its diversity. The PROFINET/PROFIsafe module combines three elementary functions of installation technology – digital standard sensors and actuators, digital safety-related sensors and actuators and IO-Link.

With MVK Fusion, fewer fieldbus modules are required per modular unit, in the best case just one. This offers attractive opportunities for a wide range of automation applications.

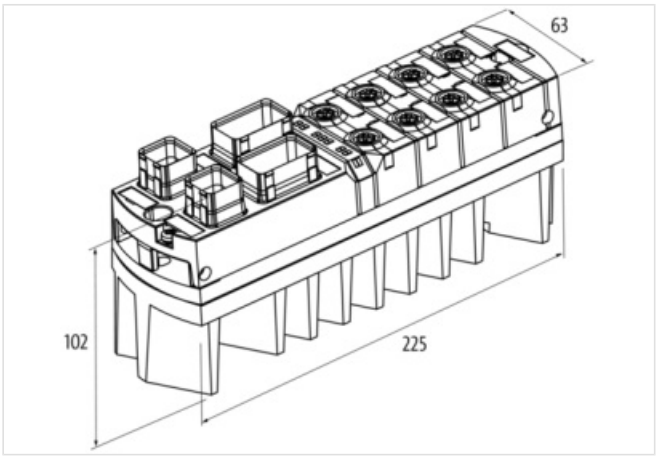
Further information on MVK Fusion can be found at Fieldbus moduleMVK Fusion.

with heat sink
Connection cables are in the online shop under "Connection Technology".

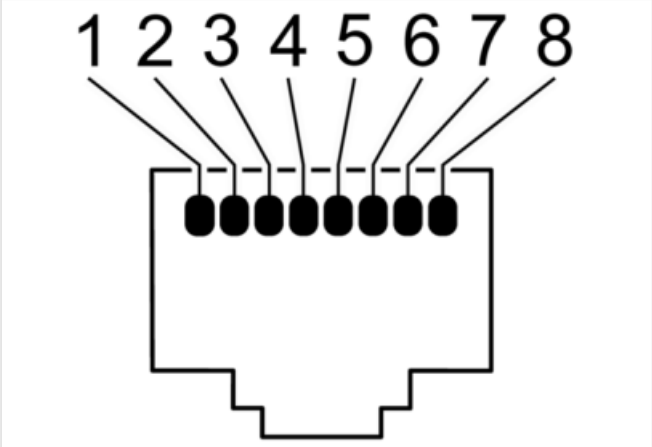
## Link to Product

**Illustration**






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Product may differ from Image

| Commercial data | |
|---|---|
| URL Webshop | https://shop.murrelektronik.com/5551001 |
| GTIN | 4048879735926 |
| EU-Customs tariff number | 85389099 |
| US-Customs tariff number | 8538908180 |
| 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 |
| ETIM-9.0 | EC001599 |
| ETIM-10.0 | EC001599 |
| customs tariff number | 85389099 |
| EAN | 4048879735926 |
| Packaging unit | 1 |

| Safety codes | |
|---|---|
| Service life | 20 a |
| Category (EN ISO 13849-1) | 4 (X0, X1, X2, X3); 3 (X7 PIN 3) |
| PFHd (IEC 61508) | 7,8 E-10/h |
| PFHd (IEC 62061) | 48 E-10/h |
| Performance level (EN ISO 13849-1) | e (X0, X1, X2, X3); d (X7 PIN 3) |
| SIL (EN/IEC 61508, EN IEC 62061) | 3 (X0, X1, X2, X3); 2 (X7 PIN 3) |
| SIL claim limit (EN IEC 62061) | 3 |

**Electrical data | Supply**

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| | |
|---|---|
| Norm operating voltage | IEC/EN 61131-2 |
| Operating voltage US DC | 24 V |
| Total current US max. | 16 A |
| Operating voltage UA DC | 24 V |
| **Electrical data \| Input** | |
| Sensor current US per input max. | 0,7 A |
| Current carrying capacity max. | 0,7 A |
| Short-circuit protected | Yes |
| Overload resistant | Yes |
| Type input | for 3-wire sensors or mechanical switches, IO-Link Devices, PNP |
| **Electrical data \| Output** | |
| Output current per pin max. | 2 A |
| Output current per pin (safety) max. | 2 A |
| Total current outputs max. | 8 A |
| Overload resistant | Yes |
| Short-circuit protected | Yes |
| Switching behavior safety output | 2 FDO X3 (PIN 2, PIN 4: pp, pm, ppm switching); 1 FDO X7 (PIN 2: pp switching) |
| **Electrical data \| F-Input** | |
| Number of F inputs | 6 |
| Type Safety input | for electronical sensors or mechanical switches |
| **Industrial communication \| Bus data** | |
| Supported protocol | PROFINET |
| **Industrial communication \| PROFINET** | |
| Conformance Class | C |
| addressing | DCP |
| Netload Class | III |
| Specification | V2.3 |
| IRT-network communication | Yes |
| MRP client | Yes |
| Shared device/input | Yes |
| Number of active connections (IO controller) max. | 2 |
| **Industrial communication \| IO-Link** | |
| type | 2× Master |
| Port Class | A, B |
| revision ID | V1.1.2 |
| transmission rate | COM1, COM2, COM3 |
| process data length input | 32 byte |
| process data length output | 32 byte |
| Automatic baudrate detection | automatic |
| **Diagnostics** | |
| Actuator warning | per channel via LED and BUS |
| Short circuit diagnosis | Yes |
| Overload diagnosis | Yes |
| Wire break detection | Yes |
| Cross-link detection | Sensor/Actuator |
| Diagnostic via BUS | per module and channel |
| Diagnostic via LED | per module and channel |
| LED display | Ethernet connection/data traffic |
| IO-Link events | Undervoltage supply, No voltage |
| **Device protection \| Electrical** | |

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| | |
|---|---|
| Degree of protection (EN IEC 60529) | IP67 |
| Galvanic separation (operating voltage) | Yes |
| **Mechanical data \| Mounting data** | |
| Height | 102 mm |
| Width | 63 mm |
| Depth | 225 mm |
| Suitable for mounting type | 2-hole screw mounting |
| **Environmental characteristics \| Climatic** | |
| Operating temperature min. | -20 °C |
| Operating temperature max. | 60 °C |
| Ambient temperature (storage, transport) | -40 °C … 85 °C |
| **Connection type 7-7** | |
| Connection type 1 | X0-X2 |
| Connection type 2 | X3 |
| Connection type 3 | X4, X5 |
| Connection type 4 | X6 |
| Connection type 5 | X7 |
| Connection type 6 | XD1, XD2 |
| Connection type 7 | XF1, XF2 |
| Family construction form | M12 |
| No. of poles | 5 |
| Coding | A |
| Gender | female |
| Color contact carrier | yellow |
| PIN 1 | 24 V DC (US 1) Test Pulse P 4 |
| PIN 2 | FDI |
| PIN 3 | 0 V (US 1) |
| PIN 4 | FDI |
| PIN 5 | 24 V DC (US 1) Test Pulse P 2 |
| Family construction form | M12 |
| No. of poles | 5 |
| Coding | A |
| Gender | female |
| Color contact carrier | yellow |
| PIN 1 | n.c. |
| PIN 2 | FDO |
| PIN 3 | 0 V (US 2) |
| PIN 4 | FDO |
| PIN 5 | n.c. |
| Family construction form | M12 |
| No. of poles | 5 |
| Coding | A |
| Gender | female |
| Color contact carrier | black |
| PIN 1 | 24 V DC (US 2) |
| PIN 2 | DI / DO |
| PIN 3 | 0 V (US 2) |
| PIN 4 | DI / DO |
| PIN 5 | PE |
| Family construction form | M12 |
| No. of poles | 5 |
| Coding | A |
| Gender | female |

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| | |
|---|---|
| Color contact carrier | gray |
| PIN 1 | 24 V DC (US 1) |
| PIN 2 | DI |
| PIN 3 | 0 V (US 1) |
| PIN 4 | DI / IO-Link |
| PIN 5 | n.c. |
| Family construction form | M12 |
| No. of poles | 5 |
| Coding | A |
| Gender | female |
| Color contact carrier | gray |
| PIN 1 | 24 V DC (US 1) |
| PIN 2 | DO (US 2) |
| PIN 3 | 0 V (US 1) |
| PIN 4 | DI / IO-Link |
| PIN 5 | 0 V (US 2) |
| Family construction form | Push Pull |
| No. of poles | 5 |
| Gender | male |
| Color contact carrier | green |
| PIN 1 | 24 V DC (US 1) |
| PIN 2 | 0 V (US 1) |
| PIN 3 | 24 V DC (US 2) |
| PIN 4 | 0 V (US 2) |
| PIN 5 | PE |
| Family construction form | RJ45 |
| No. of poles | 8 |
| Gender | female |
| Color contact carrier | black |
| PIN 1 | TD + |
| PIN 2 | TD - |
| PIN 3 | RD + |
| PIN 4 | n.c. |
| PIN 5 | n.c. |
| PIN 6 | RD - |
| PIN 7 | n.c. |
| PIN 8 | n.c. |

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