## IMPACT67 PN DI16 M12L 5P galvanic separation

PROFINET, compact module

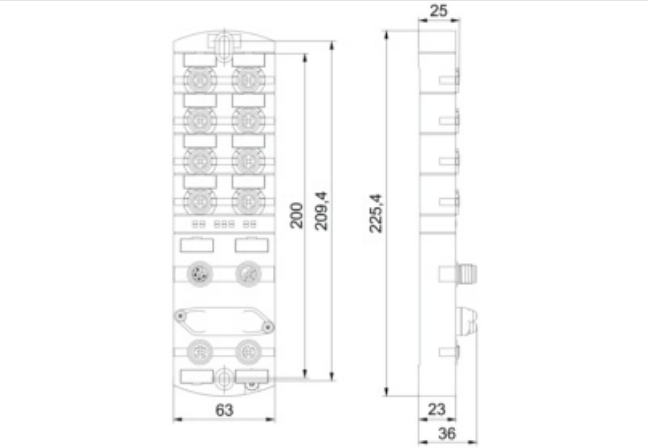
Art.No.: 55173
Weight: 0,486 kg
Country of origin: DE
Model designation: IMPACT67 PN DI16 M12L 5P

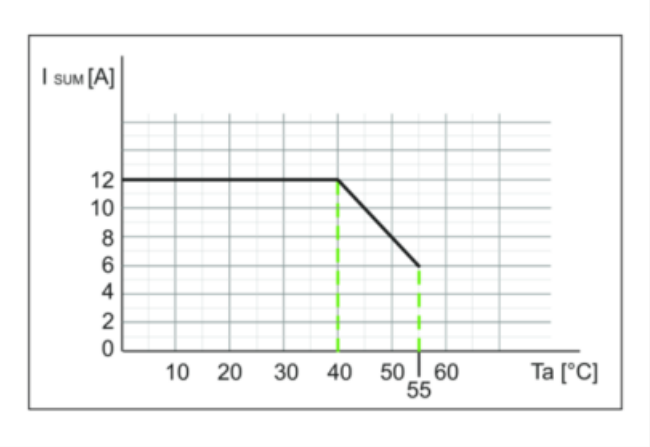
Digital inputs
M12 power, 5-pin, L-coded, 2× max. 12 A
DI16 (IRT)
Ethernet 10/100 Mbit/s; M12, D-coded
M12, 5-pole, A-coded
Fast-Start-Up (FSU)
Galvanic isolation
Connection cables are in the online shop under "Connection Technology".
Housing fully potted.

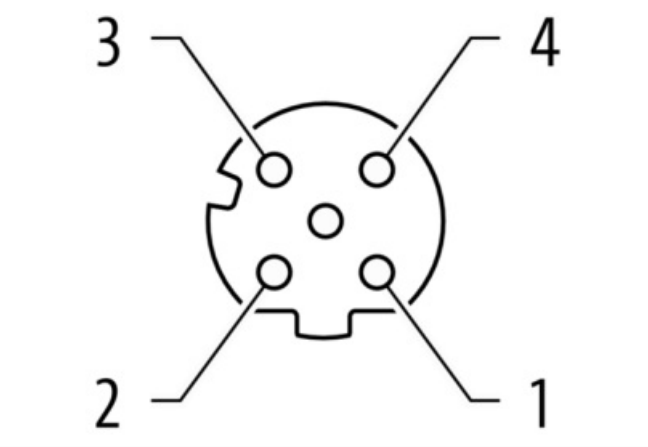
**Link to Product**

**Illustration**






Product may differ from Image

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| | |
|---|---|
| **Commercial data** | |
| URL Webshop | https://shop.murrelektronik.com/55173 |
| GTIN | 4065909225219 |
| 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 |
| customs tariff number | 85389099 |
| EAN | 4065909225219 |
| Packaging unit | 1 |
| **Electrical data \| Supply** | |
| Norm operating voltage | IEC/EN 61131-2 |
| Operating voltage US DC | 24 V |
| Total current US max. | 12 A |
| Total current UA max. | 12 A |
| Idle current max. | 130 mA |
| Actuator current UA | max. 12 A |
| Sensor current | max. 12 A |
| **Electrical data \| Input** | |
| Sensor current US per input max. | 0.2 A |
| Short-circuit protected | Yes |
| Overload resistant | Yes |
| Input characteristic (IEC 61131-2) | Type 2 |
| filter time | 1 ms |
| Type input | for 3-wire sensors or mechanical switches, PNP |
| Sensor supply per port max. | max. 200 mA @ DI |
| Processing time for signal change | min. 2 ms |
| Processing time for signal change | max. 5 ms |
| **Industrial communication \| Bus data** | |
| Supported protocol | PROFINET |
| **Industrial communication \| PROFINET** | |
| Conformance Class | C |
| addressing | DCP |
| PROFIenergy | Yes |
| Netload Class | III |
| Specification | V2.3 |
| Cycle time min. | 1 ms |
| IRT-network communication | Yes |
| IRT-application | No |
| MRP client | Yes |

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| Fast-Start-Up (FSU) | Yes |
| Fast start up time max. | 500 s |
| Shared device/input | Yes |
| **Diagnostics** | |
| Actuator warning | per channel via LED and BUS |
| 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** | |
| Installation height max. ASL | 3000 m |
| Degree of protection (EN IEC 60529) | IP67 |
| Protection class (EN IEC 61140) | III |
| Additional condition protection class | Power supply must comply with SELV or PELV |
| Invers-polarity protection | Yes |
| Pollution Degree | 2 |
| Over voltage protection | Yes |
| Overload protection device supply | Yes |
| Short circuit protection sensor supply | electronic |
| Protective circuitry input | Internal, Suppressor diode |
| Galvanic separation US/UA | Yes |
| **Device protection \| Mechanical** | |
| Shock resistance (EN IEC 60068-2-27) | 15 g 11 ms |
| **Mechanical data \| Material data** | |
| housing | PBT, PC |
| **Mechanical data \| Mounting data** | |
| Net weight | 486 g |
| Height | 225.4 mm |
| Width | 63 mm |
| Depth | 36 mm |
| Suitable for mounting type | 2-hole screw mounting |
| **Environmental characteristics \| Electromagnetic compatibility** | |
| Interference emission | EN 55016-2-3 |
| Immunity to interference | EN/IEC 61000-4-2, EN IEC 61000-4-3, EN/IEC 61000-4-4, EN/IEC 61000-4-5, EN IEC 61000-4-6 |
| **Environmental characteristics \| Climatic** | |
| Ambient temperature (operation) | -25 °C … 55 °C |
| Ambient temperature (storage, transport) | -25 °C … 70 °C |
| Relative humidity (operation) | 95 % |
| Relative humidity (storage, transport) | max. 95 % |
| **Technical Data \| Reliability** | |
| MTTF (EN/IEC 61709, EN ISO 13849-1, SN 29500) | 86 a @ 40 °C |
| **Environmental product conformity** | |
| REACH ((EC) 1907/2006) | compliant |
| RoHS (2011/65/EU, (EU) 2015/863) | compliant |
| RoHS-Exemption (2011/65/EU) | 6(c), 7(a), 7(c)-I |
| China RoHS (SJ/T 11364, GB/T 26572) | EFUP-25 |
| WEEE (2012/19/EU) | compliant |
| **Conformity** | |
| Product standard | EN 61131-2 |

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| CE | 2014/30/EU, 2011/65/EU |
| UKCA | The Electromagnetic Compatibility Regulations 2016, The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 |
| **Approvals** | |
| UL Listed (US, CA) | E201820 |
| UL-Standard | UL 61010-2-201, UL 61010-1 |
| CSA-Standard | CAN/CSA-C22.2 No. 61010-2-201, CAN/CSA-C22.2 No. 61010-1-12 |
| **Connection type 4-4** | |
| 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 | 24 V DC (US) |
| PIN 2 | DI |
| PIN 3 | 0 V (US) |
| PIN 4 | DI |
| PIN 5 | PE |
| Family construction form | M12 |
| No. of poles | 5 |
| Coding | L |
| Gender | male |
| Color contact carrier | black |
| PIN 1 | 24 V DC (US) |
| PIN 2 | 0 V (UA) |
| PIN 3 | 0 V (US) |
| PIN 4 | 24 V DC (UA) |
| PIN 5 | PE |
| Family construction form | M12 |
| No. of poles | 5 |
| Coding | L |
| Gender | female |
| Color contact carrier | black |
| PIN 1 | 24 V DC (US) |
| PIN 2 | 0 V (UA) |
| PIN 3 | 0 V (US) |
| PIN 4 | 24 V DC (UA) |
| PIN 5 | PE |
| Family construction form | M12 |
| No. of poles | 4 |
| Coding | D |
| Gender | female |
| Color contact carrier | black |
| Mounting method | inserted, screwed |
| Tightening torque | 0.6 Nm |
| PIN 1 | TD + |
| PIN 2 | RD + |
| PIN 3 | TD - |
| PIN 4 | RD - |

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| PIN 5 | n.c. |

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