

Impact67 PN DIO14 DIO2/IOL2 M12L 4P

ProfiNet, Compact module,

Digital inputs/outputs  
DIO14 IOL2 (IRT)  
Ethernet 10/100 Mbit/s; M12, D-coded  
M12 Power, 4-pole, L-coded  
M12, 5-pole, A-coded  
IO-Link Master V1.1.2  
Connection cables are in the online shop under "Connection Technology".  
Housing fully potted.  
mounting compatible with I/O modules of the MVK series

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                     | 4048879735773 |
| 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, IO-Link Devices |
| Sensor current US per input max.        | 0,2 A                                                           |
| Sensor current US per IO-Link port max. | 1 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 outputs 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   |
| PROFINET Netload Class                            | III   |
| PROFINET addressing                               | DCP   |
| PROFINET conformance class                        | C     |
| PROFINET specification                            | V2.3  |
| Shared device/input                               | yes   |

**Industrial communication | IO-Link**

|                                    |                  |
|------------------------------------|------------------|
| Automatic baudrate detection       | yes              |
| IO-Link process data length output | 32 Bytes         |
| IO-Link process data length input  | 32 Bytes         |
| IO-Link type                       | 2x Master        |
| IO-Link transmission rate          | COM1, COM2, COM3 |
| Port Class                         | B                |

**Diagnostics**

|                    |                                  |
|--------------------|----------------------------------|
| Actuator warning   | per channel via LED and BUS      |
| Diagnostic via BUS | per module and channel           |
| Diagnostic via LED | per module and channel           |
| IO-Link events     | No voltage, Undervoltage supply  |
| LED display        | Ethernet connection/data traffic |
| Cable break        | per port                         |

**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. | 55 °C             |
| Storage temperature min.   | -25 °C            |
| Storage temperature max.   | 70 °C             |
| <b>Connection type 5</b>   |                   |
| Connection type 1          | X0-X5             |
| Connection type 2          | X6, X7            |
| Connection type 3          | XD1               |
| Connection type 4          | XD2               |
| Connection type 5          | XF1, 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                     | 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 / IO-Link |
| PIN 5                      | 0 V               |
| 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 - |