COMPACT

MAXIMUM POWER

MVK Metal and Impact67

The powerful fieldbus modules MVK Metal and Impact67 from Murrelektronik are now also available with M12 power plug connectors (L-coded). This brings a whole range of advantages!

- The power lines carry up to 16 A of current, thus making it possible to connect a large number of sensors and actuators of high energy requirement **without the need for additional lateral power supply.**
- Installation solutions including the new modules are fit for the future: PI (PROFIBUS & PROFINET international) has defined the M12 power plug connectors (L-coded) as **the power connection technology of the future**.
- The M12 plug connectors are smaller and more compact than the previously common 7/8" plug connectors. **This saves space in installations.**
- The functional ground is no longer looped through several modules. Instead EMC interferences **are discharged "on site"** – using the handy grounding straps from Murrelektronik. This prevents interferences from accumulating.

Using ports and maximum power

The IO-Link ports of the master modules are designed to be multifunctional. They can be used for IO-Link sensors and actuators and as traditional inputs and outputs. A module collects signals of a wide range of types. For each IO-Link port, an additional power supply with 1.6 A is available. IO-Link devices of high energy requirement can be supplied with power directly by the module without the need for lateral power supply.

Shorter installation times

The compact M12 power cables (L-coded) can transmit up to 16 A in a smaller form factor. The power supply can be fed to several modules. This simplifies installation and reduces cable runs. PI (PROFIBUS & PROFINET international) sees the M12 L-coded connectors as the future standard in power connectors.

High Performance

The modules are suitable for applications with Fast StartUp (500 ms), Conformance Class C (IRT), Shared Device and Netload Class III. Thus, there is nothing to prevent their use in applications in which maximum power and absolute reliability are required.

Easy parameter setting

IODD on Board achieves this objective directly. This functionality is ideal for integrating IO-Link devices into installation systems. The advantages: fast integration, brief commissioning times, yet maximum flexibility.

Technical Data

- PROFINET V2.3 Conformance Class B/ Conformance Class C
- Protection class IP67
- M12 Power (L-coded)

IO-Link

PROFINET

	MVK Metal DIO16 4P	MVK Metal DIO14 DIO2/IOL2 4P	MVK Metal DIO12 DIO4/IOL4 4P	Impact67 DIO16 4P	Impact67 DIO14 DIO2/IOL2 4P	Impact67 DIO12 DIO4/IOL4 4P
						
Art. No.	55160	55161	55162	55150	55151	55152
Technical Data						
PROFINET Netload Class	III					
FSU support	yes					
Shared Device/Input	yes, for 2 controls					
Multifunctional Channels	8 M12 ports					
Digital Inputs	max. 16, acc. to EN 61131-2, Type 3 (200 mA), single channel protection					
Digital Outputs	max. 16, max. 1.6 A per output cycle frequency max. 50 Hz, single channel protection					
IO-Link	V 1.12 / EN61131-2 Typ 1, Com1/Com2/Com3, automatic startup, up to 1 A load (pin 1–3)					
IO-Link Class B Port to 1.6 A (pin 2–5)	–	max. 2 (X6, X7)	max. 4 (X4, X5, X6, X7)	–	max. 2 (X6, X7)	max. 4 (X4, X5, X6, X7)
Shock (EN 60068 Part 2-27)	50 g			15 g		
Connections						
Fieldbus	10/100 Mbit/s; M12 D-coded					
Power sensor system/actuator	M12 power, L-coded, 4-pin, max. 16 A					
I/O slots	M12, 5-pin, A-coded					

Order data for accessories

Description	Art. No.
IO-Link/analog converter Multi AI U / I, M12, straight, 16Bit, IP65/67, IO-Link V1.1	**5000-00501-1300001**
IO-Link/analog converter AO Multi U / I, M12, straight, 16Bit, IP65/67, IO-Link V1.1	**5000-00501-2300001**
Label plates 20 × 8 mm (20 pieces)	**55318**
Blind Plug M12, Plastic	**58627**
IO-Link hub MVP12 plastic DI16 IOL	**59401**
IO-Link hub MVP12 plastic DI8 DO8 IOL	**59402**
IO-Link hub MVP12 metal 8 × M12 DI16 IOL	**55519**
IO-Link hub MVP12 metal 8 × M12 DI8 DO8 IOL K3	**55518**

Easy diagnostics without complicated programming

MVK Metal and Impact67 harmonize perfectly with IO-Link hubs from Murrelektronik. They multiply not only the number of inputs and outputs, but also simplify diagnostics as much as possible. They provide unique information without requiring any programming whatsoever, for metal hubs even for each individual channel.

That's how easy it is: All diagnostic information (e.g. short-circuit) is coded via the GSDML file in plain text diagnostics. When an error occurs, the IO-Link-Events supplied by the hub are converted by the master modules to the corresponding PROFINET diagnostics. They can be output and displayed by the control as plain text information by means of the GSDML information, without the need for complicated programming. This saves time and eliminates the risk of wrong programming.