Your requirements for drive controllers and regulators are the driving force behind our connection technology

Let’s connect.

Perfect-fit connectivity solutions for drive controllers and regulators

1. Power supply

Reliable device connections are essential to meet the maximum safety and reliability requirements in power electronics. The OMNIMATE Power product series is particularly suitable for use in power electronics – particularly in machine control, for instance, for precision processing systems. It is even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability. The OMNIMATE Power connectors provide connectors with many unique features that ensure maximum safety and reliability. The design of these having maximum safety and reliability. The design of these connections includes the use of the advantages of both plug-on and screw connections. The OMNIMATE Power product series is also suitable for use in other applications, depending on your application requirements.

OMNIMATE Power terminals are available in a wide range of forms and surfaces – from 4 mm² to 95 mm². These terminals provide a universal solution for feeding currents of varying magnitudes (from 4 mm² to 95 mm²). With wire cross-sections of 2.5 mm², 6 mm² and 16 mm², the OMNIMATE Power range sets a new standard – with increased safety and innovative details such as the pluggable shield, integrated signal contacts and one-handed operation. The standard profiles makes it impossible to accidentally plug the wrong connectors together. The connectors can also make use of additional attachment mechanisms such as latches, interlocks or screws. The design of the mating sections of 2.5 mm², 6 mm² and 16 mm². OMNIMATE Power terminals provide a reliable, damage-proof non-arc contact with well-defined contact pressure and a contact force of 0.5 N/mm². The connectors can be used as solar inverters, frequency converters, servo-controllers or for precise positioning systems. So it’s even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability. The OMNIMATE Power product series is particularly suitable for use in power electronics – particularly in machine control, for instance, for precision processing systems. It is even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability.

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OMNIMATE – device connectivity and electronics housings

As a market leader, we expect our customer solutions to be world-renowned in quality, reliability and price-performance ratio. We are thus at the cutting edge of development and innovation, technically overcoming the technological challenges of today. We are consistently continuously developing innovative, sustainable and safe solutions for the industrial trade. Together our standards is Industrial Connectivity.

2. Intermediate circuit

OMNIMATE Power products are suitable for use in solar inverters, frequency converters, servo-controllers or for precise positioning systems. So it’s even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability. The OMNIMATE Power product series is particularly suitable for use in power electronics – particularly in machine control, for instance, for precision processing systems. It is even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability.

We specialise in industrial connectivity; our connectivity solutions include PCB terminals and plug-in connectors and power supplies.

3. Motor connections

OMNIMATE Power products are suitable for use in solar inverters, frequency converters, servo-controllers or for precise positioning systems. So it’s even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability. The OMNIMATE Power product series is particularly suitable for use in power electronics – particularly in machine control, for instance, for precision processing systems. It is even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability.

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4. Busbar

OMNIMATE Power products are suitable for use in solar inverters, frequency converters, servo-controllers or for precise positioning systems. So it’s even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability. The OMNIMATE Power product series is particularly suitable for use in power electronics – particularly in machine control, for instance, for precision processing systems. It is even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability.

We specialise in industrial connectivity; our connectivity solutions include PCB terminals and plug-in connectors and power supplies.

5. Positioning feedback

OMNIMATE Power products are suitable for use in solar inverters, frequency converters, servo-controllers or for precise positioning systems. So it’s even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability. The OMNIMATE Power product series is particularly suitable for use in power electronics – particularly in machine control, for instance, for precision processing systems. It is even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability.

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6. External I/Os

OMNIMATE Power products are suitable for use in solar inverters, frequency converters, servo-controllers or for precise positioning systems. So it’s even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability. The OMNIMATE Power product series is particularly suitable for use in power electronics – particularly in machine control, for instance, for precision processing systems. It is even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability.

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7. IP65 housing

OMNIMATE Power products are suitable for use in solar inverters, frequency converters, servo-controllers or for precise positioning systems. So it’s even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability. The OMNIMATE Power product series is particularly suitable for use in power electronics – particularly in machine control, for instance, for precision processing systems. It is even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability.

We specialise in industrial connectivity; our connectivity solutions include PCB terminals and plug-in connectors and power supplies.

OMNIMATE Signal products are suitable for use in solar inverters, frequency converters, servo-controllers or for precise positioning systems. So it’s even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability. The OMNIMATE Signal product series is particularly suitable for use in power electronics – particularly in machine control, for instance, for precision processing systems. It is even more important that the user take advantage of the connectivity technology that ensures maximum safety and reliability.

We specialise in industrial connectivity; our connectivity solutions include PCB terminals and plug-in connectors and power supplies.

1. Power supply

OMNIMATE – Partner in Industrial Connectivity

Looking for more detailed information? Please visit our website at http://www.weidmuller.com for more detailed and up-to-date information?

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1. Power supply

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safely
Device feedthrough terminals for direct connections, PCB terminals, connectors carrying high voltages can be widened. When working with high voltages, the spacing between terminals for 4 mm² to 50 mm² connecting wires up to 25 mm², or device feedthrough terminals in 10. 16 mm, 12.7 mm and 15.0 mm pitches, for
For non-pluggable connectivity solutions, we recommend PCB
Power for IT power systems. The features built into these
More standards compliance, less compromise: OMNIMATE
of touch protection on both sides of the unplugged connection. The inverted BLL or BVL female headers, when used together with the correct SLF/SLZ or SVF/SVZ male plugs, provide 3 mm
touch-protection shield on both sides of the plug-in connection. This helps you to save space on the circuit board and on the
b) 3.0 mm polarised shield connection for supplying power to any connected sensors and brakes. Depending on the application, a connection to an
voltage, internal temperature sensor and possibly the mechanical
This interface typically requires connections for the motor

Motor connection

1. Power supply

2. External I/Os

3. Motor connections

4. Safety circuit

5. Positioning feedback and network connections

6. FieldPower® housing solution, plug-in power bus, IP65 FieldPower motor cable, M12 connecting cables

7. IP65 modules

8. Power supply has an integrated power bus; it can be turned off without interrupting the voltage supply to the entire system. The power supply can be reconfigured according to your needs to create an individual power source. The IP65 FieldPower® Control housings are built from polycarbonate, which is resistant to mechanical stress, vibrations and temperatures in the range of -40°C to +120°C. They suppress stray fields and radiated noise on control circuits. They also feature a wide range of options for input and output signals. The prerequisites for the use of our FieldPower® Control housing solution are an IP65 fieldbus or an Ethernet fieldbus. We recommend using a control solution that is based on an Ethernet fieldbus, as this offers several advantages.

1. FieldPower® housing solution, plug-in power bus, IP65 FieldPower motor cable, M12 connecting cables

2. Decentralisation of Power Electronics Modules assist with

3. External I/Os

4. Positioning feedback and network connections

5. Safety circuit

6. Motor connection

7. Intermediate circuits (DC-Link)

- High power drives and harmonic loads like motors
- Servo drives and power inverters
- DC-bus capacitors

- FieldPower® housing solution, plug-in power bus, IP65 FieldPower motor cable, M12 connecting cables

2. Decentralisation of Power Electronics Modules assist with

- 1. FieldPower® housing solution, plug-in power bus, IP65 FieldPower motor cable, M12 connecting cables

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