OMNIMATE Signal includes PCB terminals and PCB plug-in connection for automation and systems engineering equipment, as well as sensor-actuator interfaces and power supplies.

OMNIMATE Power includes PCB terminals, PCB plug-in connectors and feedthrough terminals for use in power electronics – particularly in inverters, frequency converters, servo drives, heavy-duty power supplies and motor starters.

OMNIMATE Housing – The perfect enclosures for industrial electronics, for mounting on 35 mm top-hat rails (DIN rails) in the electrical cabinet. Used for controller, signal conversion and machine safety applications.

OMNIMATE Services – Take advantage of our global 72-hour sample service free of charge in the online catalogue or at www.sample-service.com. For the best design-in-process – from specification stage to full component integration.

OMNIMATE – device connectivity and electronics housings

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We are thinking about the future in terms of accurate connections
Let’s connect.

Forward-looking connection system for LED lighting and lighting controls

Trends towards energy efficiency and long service life are emerging in lighting technology. From streetlights and outdoor lighting, to lighting at the workplace, or in the home, the use of LED technology in gaining in importance. It is highly effective and offers a typical service life of up to 50,000 operating hours. But while LED lighting requires virtually no maintenance for a number of years, it does place increased demands on individual electronic components. You therefore have to address not only the issues of longevity and a higher ambient temperature, but also consider suitability for efficient mass production.

Our tried and tested OMNIMATE device connection system is here to help. As an industrial connectivity partner, Weidmüller has been synonymous with quality, efficiency and competence for over 50 years. The extensive product range of our OMNIMATE connection system provides reliability and added value over the entire LED service life. Power supply, lighting control or lights – PCB terminals and PCB plug-in connectors from Weidmüller provide unique solutions for your devices.

The OMNIMATE Signal, OMNIMATE Power and OMNIMATE Housing product groups offer the simple connection solution for your application. The Weidmüller online configurator on our website provides free 3D CAD downloads and our unique 72-hour OMNIMATE sample service, delivering impressive convenience and speed. We guarantee that you’ll have your requested sample within 72 hours. Let’s connect.

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PCB terminals and connectors, in 5.08 pitch, with PUSH IN or screw wire connections can be used for a screw-wire connection.

Items PS 3.5, LM 3.5, LM 5.00, LM 5.08 and LS 5.08 can be used in either the wave solder process or the reflow soldering process (SMT) without any changes to this sentence, it sounds fine. You can gain optimum efficiency for your LED modules, strips and lights by avoiding any shade from neighbouring components. The heat produced by the lights also has to be managed. If you often use aluminium composite PCBs, your choice of suitable connection components is tough. With high-power LED modules in particular, e.g. for use in streetlights and outdoor lighting, very compact connection components are needed.

The BCF 3.81 OMNIMATE plug-in connector variant with a lead height of just 7.9 mm is extremely flat, yet still can connect conductors of up to 1.50 mm², including the wire-end ferrule. Thanks to PUSH IN connection technology, the prepared conductors can be connected in no time and can be trusted to withstand vibrations. LSF-SMD SMD PCB terminals meet the requirements for fully automatic surface mounting. The additional screw flange or lock and release lever prevent the wrong parts being connected together. The plug-in connection system also available as an SMD version or THR version. The OMNIMATE LSF series of PCB terminals and plug-in connectors is size 3.81 mm are perfectly suited for simple and safe operation in tight installation situations. They provide a large clamping range of 0.20 to 1.50 mm² and a very short installation time. Installation of smaller and smaller LED lights, strips and lights by avoiding any shade from neighbouring components. The heat produced by the lights also has to be managed. If you often use aluminium composite PCBs, your choice of suitable connection components is tough. You can gain optimum efficiency for your LED modules, strips and lights by avoiding any shade from neighbouring components. The heat produced by the lights also has to be managed. If you often use aluminium composite PCBs, your choice of suitable connection components is tough. With high-power LED modules in particular, e.g. for use in streetlights and outdoor lighting, very compact connection components are needed.

The OMNIMATE Signal connector series features ideal plug-in technology, which enables a direct connection without the use of any tools. The conductor is inserted quickly and easily with a built-in push-button.

For SMD assembled printed circuit boards the connection system is also available as an SMD variant or THR variant. The 3.25 and 5.08 BLF and BLZP OMNIMATE Signal plug-in connection on aluminium composite PCBs can now also be connected with the PUSH IN connection technology, which enables a direct connection without the use of any tools. The connector is inserted quickly and easily with a built-in push-button.

You need safe and durable device connections for the current and voltage requirements in all LED applications. Terminals and plug-connections from the OMNIMATE Signal series provide maximum safety and numerous features. For example, you can depend on the connector face or optional coding elements to prevent the wrong parts being connected together. The plug connections can be made even more secure, using clips, locks or screws. Depending on your application, you can choose between a fixed or variable pitch. You can have the localisation of the screw or built-in lock at any location in the connector. You can also have the built-in lock under an external spring, so you can have an OMNIMATE Signal product printed with a low height of just 7.9 mm is extremely flat, yet still can connect conductors of up to 1.50 mm², including the wire-end ferrule. Thanks to PUSH IN connection technology, the prepared conductors can be connected in no time and can be trusted to withstand vibrations. LSF-SMD SMD PCB terminals meet the requirements for fully automatic surface mounting. Equipped with PUSH IN connection technology, this genuine OMNIMATE SMD PCB terminal with THR soldering is particularly suitable for high current-carrying capacity of up to 17.5 A. Fast and safe contacts are made using the proven PUSH IN connection technology, which enables a direct connection without the use of any tools. The connectors are levered quickly and easily with a built-in push-button.

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