OMNIMATE – Device Connectivity
and Electronics Housings

As experienced experts, we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together, we set standards in Industrial Connectivity.

OMNIMATE Signal
includes PCB terminals and PCB plug-in connectors for automation and systems engineering equipment, as well as sensor-actuator interfaces and power supplies.
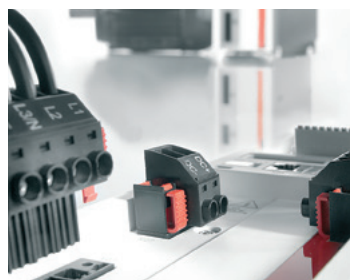
OMNIMATE Power
includes PCB terminals, PCB plug-in connectors and feed-through terminals for use in power electronics such as inverters, frequency converters, servo drives, heavy-duty power supplies and motor starters.

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

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

You stand for future-oriented building security equipment
Our connections enable you to meet the highest standards
Let's connect.

Building security equipment

Reliable connectivity
for Building security equipment

Strict requirements in building security are becoming an increasingly important issue, hence requiring the use of surveillance systems that are equipped for the future. In addition to fulfilling legal regulations and standards, such as DIN VDE 0833, it is necessary to ensure the reliable protection of people and property.

Our proven OMNIMATE device connectivity technology provides you with support in your safety-relevant fields of application. Be it access controls, security control systems or video surveillance, our tailor-made connection solutions score highly in terms of security in all areas of requirement.

As your partner for Industrial Connectivity, we support you through our trained sales staff in addition to offering high-quality PCB components. They know your requirements and are on hand to provide you with expert knowledge.

Our excellent services, such as the online configurator, free-of-charge 3D CAD downloads and our unique 72-hour sample service (www.sample-service.com) provide additional benefits for your project planning.

Let's connect.

Weidmüller ƎꞀƎ

1.
Power supply

Risks such as break-ins, hold-ups and fires constitute threats to life, property and buildings. The early detection of emergency situations requires non uninterruptible alarm systems. A reliable power supply is crucial in avoiding hazardous breaches of security.

Our OMNIMATE Signal series of PCB plug-in connectors provides you with more than security. Our BLZP 5.0x scores particularly highly with the following customer benefits:

- Secure conductor clamping thanks to its proven clamping yoke system made from hardened steel and high-strength clamping screws that pull the conductor against the busbar and fix it in the contact point
- No need to carry out maintenance tasks in the long run due to integral vibration protection
- Fast, cost-efficient connecting due to fully open clamping points ("Wire Ready")
- Secure, error-free wiring thanks to integral protection against the underinsertion of wire ("Wire Guard")
- Can be used around the world due to universal screw head (plus/minus screw)

Our wide range of OMNIMATE Signal series products is sure to have the right solution for every requirement.
So you can be absolutely certain of the power supply!

OMNIMATE Signal BLZP 5.08 female plug with clamping-yoke screw connection

2.
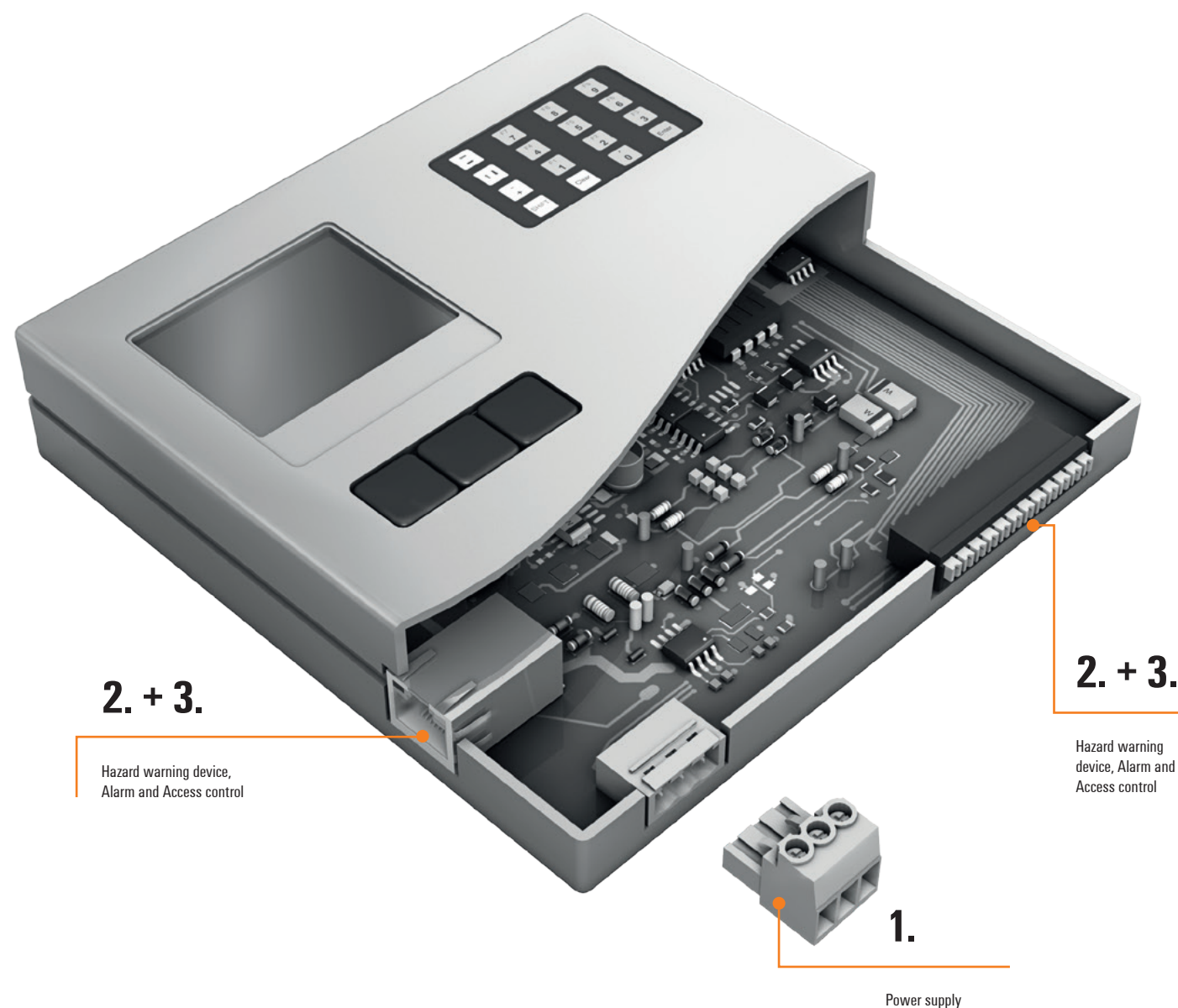## Hazard warning device (Input), Alarm (Output)

While hazard warning devices detect potential threats and make an emergency call where necessary, alarm systems draw attention to the danger by means of visual and audible signals. In order to ensure correct functionality, equipment such as sophisticated camera systems require secure and fault-free data transmission from the hazard warning device to the alarm control centre. This saves lives in the event of an emergency.

For reliable single-wire data transmission in the alarm chain, our reflow-compatible OMNIMATE LSF-SMD PUSH IN PCB terminals can be easily ntegrated into all conventional production processes in the industrial environment.

- Design freedom for your equipment thanks to versatile pitch sizes (3.50, 5.00, 7.50 mm) and wire outlet directions (90°, 135°, 180°)
- Specially designed for the SMD reflow method
- High-quality soldering due to coplanarity of max. 100 µm
- Outstanding mechanical stability thanks to significantly higher axial tensile forces per pole than specified by IEC 60947-7-4 and thanks to holding forces of more than 150 N per pole in the axial direction
- Tested vibration and shock resistance in accordance with IEC 61373/10.201 for smooth and long-term maintenance-free operation

Our solderable RJ45 reflow solder socket, however, is used for field communication via the data bus.

LSF-SMD PUSH IN PCB terminals and RJ45 solder sockets are suitable for automatic assembly and provide cost savings in PCB assembly of up to 30 %.

OMNIMATE Signal LSF-SMD PCB terminals with spring connection using PUSH IN direct insertion

2. + 3.
Hazard warning device, Alarm and Access control

2. + 3.
Hazard warning device, Alarm and Access control

1.
Power supply

3.
Access control

To ensure that confidential information or potentially hazardous areas are only accessible to selected employees, security systems control access. A huge amount of damage can occur if unauthorised persons gain access to sensitive areas. This underlines the importance of a properly functioning access control system.

Our reflow-compatible RJ45 solder sockets, for example, which have been developed and tested according to high security standards, ensure optimum signal transmission via the data bus between sensors, the control centre and actuators. Even high data rates (such as those needed for video surveillance) or harsh environments in the field do not impair their reliability. This means that RJ45 connection components fulfil the highest requirements.

- Variants for SMD or THR soldering methods
- Optimum adaptation to housing designs due to variable outlet directions (90°, 180°, 270°)
- High electromagnetic compatibility and protection in harsh conditions in the field for secure data transmission
- Future-proof thanks to Cat. 5 and Cat. 6

If you transfer signals via single wire, our LSF-SMD PUSH IN PCB terminal is the right product for you.

Our optional marking service also ensures additional security in your application. Coloured connection markings ensure the error-free wiring of all our OMNIMATE Signal equipment connection components.

RJ45 PCB sockets in IP 20 for copper and fibre-optic cables

Would you like more detailed information?
Enter the search terms below in our online catalogue at:
http://catalog.weidmueller.com

1. Power supply

OMNIMATE Signal PCB terminals
LM, LSF-SMD, LSF-SMT, LL 5.0x

OMNIMATE Signal plug-in connectors
BLZP 5.0x, SL-SMT 5.0x, SL 5.0x

2. Hazard warning device (input), Alarm (output)

OMNIMATE Signal PCB terminals
LSF-SMD, LSF-SMT, LM, PM, PS

OMNIMATE Signal plug-in connectors
BL 3.5, BC 3.81, B2CF, BLZP

RJ45 PCB sockets
IE-PCB-RJ45-SMD-C5-A

3. Access control

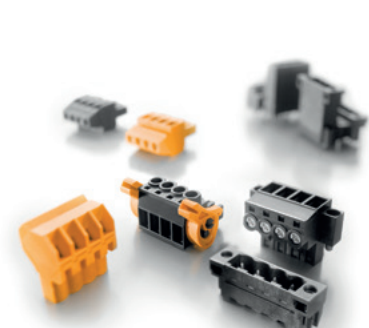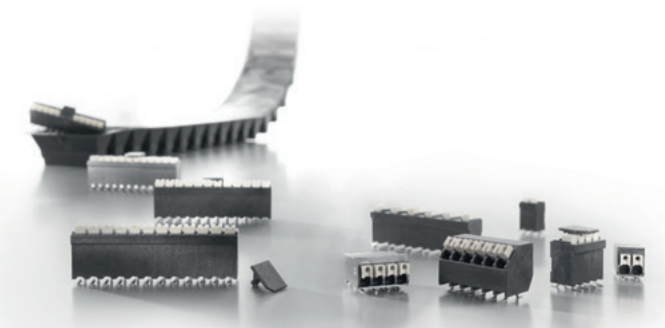OMNIMATE Signal PCB terminals
LSF-SMD, LSF-SMT, LM, PM, PS

OMNIMATE Signal plug-in connectors
BL 3.5, BC 3.81, B2CF, BLZP

RJ45 PCB sockets
IE-PCB-RJ45-SMD-C5-A

Our online product assistant is also available for accurate configuration:
http://galaxy.weidmueller.com

Let's connect.