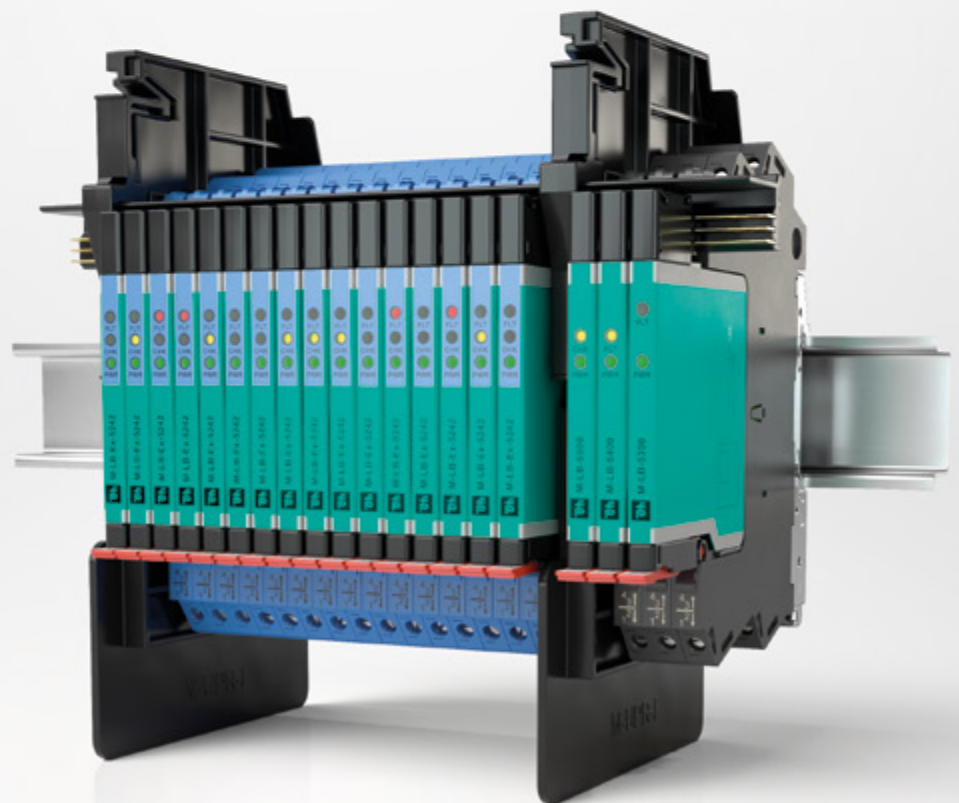


Smart.
Small.
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Intelligent Surge Protection



Your automation, our passion.

 **PEPPERL+FUCHS**

Power Surge—The No. 1 Underestimated Cause of Damage

Overvoltages due to lightning strikes or switching operations are one of the most common causes of electronic damage. In process engineering plants such as refineries with exposed building parts or extensive water management systems, surge events can cause devastating damage: from fires, damage to or destruction of expensive components and machines, to breakdown of complete automation systems—not including risks to personnel.

Besides these dangerous risks to people and environment, overvoltages are still one of the most common causes of damage in electrical plant engineering. They primarily occur due to lightning strikes or switching operations, but also due to the following causes:

- Electrostatic discharge
- Brush fire of large electric machines
- Fluctuations in power supply
- Ground faults/short circuits
- Triggering fuses
- Parallel installation of energy and information technology control systems

For more information, visit us online:

www.pepperl-fuchs.com/surge



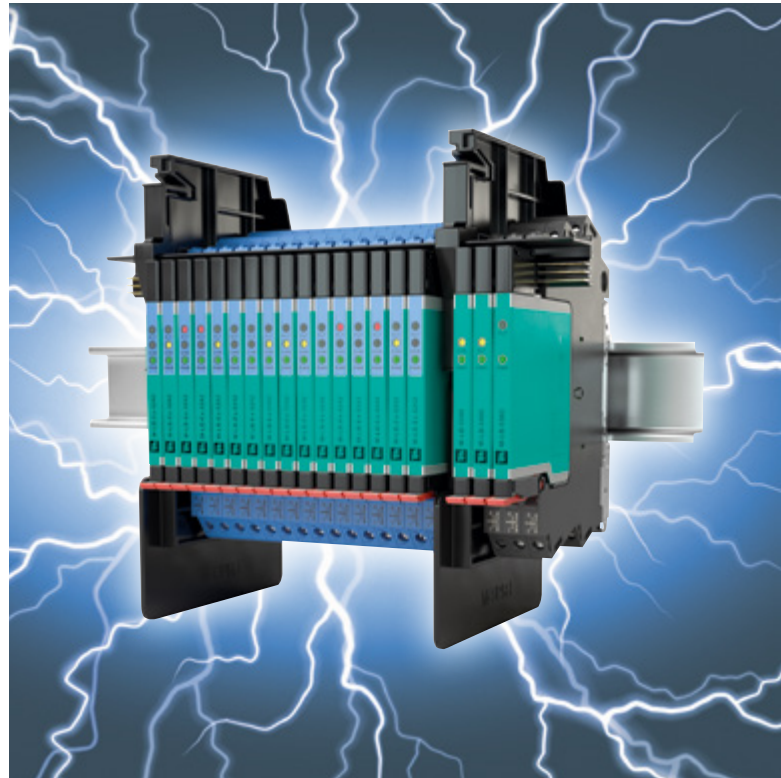
M-LB-5000—Intelligent Surge Protection

The M-LB-5000 offers reliable diagnostics inside: The display shows status information which can be forwarded to the control level. This allows predictive maintenance while reducing operational costs.

The modular design of the M-LB-5000 system allows users to quickly exchange pluggable surge protection modules during operation—without any interruption of the signal circuit. If the protection module is removed and re-inserted with 180° rotation, the signal circuit is interrupted by the integrated disconnect function. This loop disconnect feature allows isolation testing as well as loop monitoring during commissioning. With a width of just 6.2 mm, the M-LB-5000 surge protection modules provide the highest packing density and reduce installation space to a minimum. User-friendly mechanics allow operational staff to conveniently install the modules without any additional wiring effort.

Key Features

- Compact 6.2 mm width for reduced installation space
- Continuous self-monitoring with status indication for predictive maintenance
- Plug-in modules for easiest installation
- Hot swap during operation—without any interruption of signal circuit
- Loop disconnect for easy maintenance
- Global certifications



M-LB-2000—Simple Surge Protection

The M-LB-2000 offers basic features in a compact housing: with a width of just 6.2 mm it reduces installation space to a minimum. This cost efficient simple surge protection is a one-piece device for mounting on DIN rail and easy to handle tool-free. The integrated loop disconnect function simplifies troubleshooting in the event of a fault.

Key Features

- Compact 6.2 mm width for reduced installation space
- Plug-in modules for easiest installation
- Loop disconnect for easy maintenance
- Global certifications

Technical Features	M-LB-5000	M-LB-2000
Status indication for predictive maintenance	■	
Hot swap during operation	■	
Modularity	■	
6.2 mm compact design	■	■
DIN rail mounting	■	■
Loop disconnect	■	■
Screw- or spring terminals	■	■
Ex- or Non-Ex	■	■
Global certifications	■	■
Functional Safety—SIL3	■	■

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Explosion Protection

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- FieldConnex® Fieldbus
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- Purge and Pressurization
- Industrial HMI
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

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- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Fieldbus Modules
- AS-Interface
- Identification Systems
- Displays and Signal Processing
- Connectivity

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