

## Our Client Is an Established Brand of Reliable Industrial Safety Devices

ERNI has been helping leaders in the automation safety industry to achieve first-in-class products with our broad range of connectors. Headquartered in Shanghai, China with numerous R&D centres and over 110 patents registered, our Client's range of products include the surge protection devices suitable for use in harsh and hazardous environments such as the oil & gas, and new energy industries. These protective devices switch electrical loads to limit transient voltages and divert surge currents to protect outdoor control systems, gas pipelines, tanks and oil refineries from damages caused by lighting.

The oil and gas industry is particularly sensitive to factors such as current, electromagnetic interferences, and electricity. A single voltage surge in power lines or a small spark can lead to serious accidents such as explosions and threaten the safety of on-site personnel.

**The costs incurred from repairing the damages to these sensitive field equipment are much higher compared to deploying protective products as a preventive measure to control a voltage surge.**

For confidentiality reasons, we are unable to disclose our Client's name in this success story.



# PREVENT EQUIPMENT DOWNTIME BY USING SURGE PROTECTION DEVICES WITH ERNI CONNECTORS

## Application: Surge Protection Device

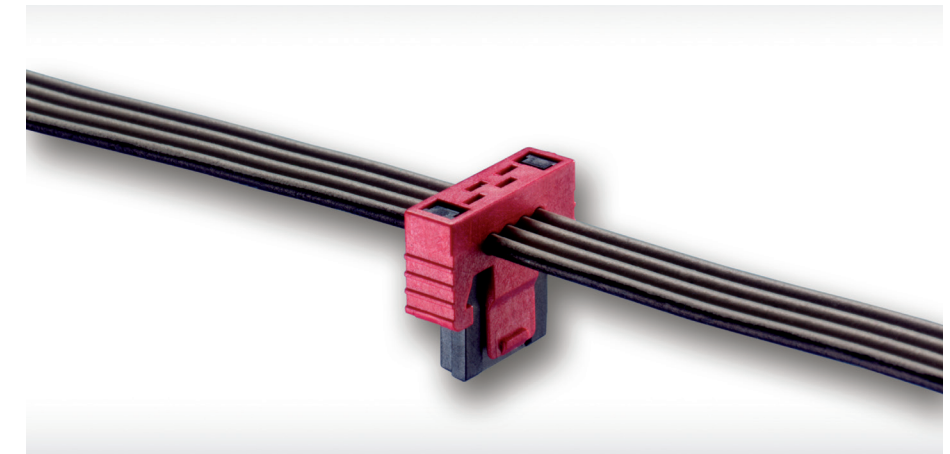


Today's surge protection devices (SPD) are designed with a small form factor to fit into tightly spaced applications, and this has caused a rising demand for space-saving components over the years.

Prior to using ERNI, the previous connectors within the SPD were not compact enough to slide through the diameter of the cable wires. The structure of the connectors also presented huge challenges for the Client to connect multiple connectors neatly in a series on the wires to fit into the SPD. The Client was subsequently introduced to ERNI by a business contact after searching for a viable solution.

## Solution

The compact design of the ERNI MiniBridge single-row cable connector systems in a 1.27mm pitch is ideal for space-saving connections between printed circuit boards and decentralized function units. Various connective options can be realised, thanks to the right angle or vertical male connectors and female connectors with 90° and 180° cable outlets. The plastic housing is both temperate-resistant and robust enough to withstand high temperatures between -55°C up to 150°C, and is designed with a variable wire diameter to fit different cable systems.



Other key features:

- Standard male connector in SMT and female in IDC variant, parts of pin count of male in IDC and female in SMT are available
- Straight and angled male terminal strips
- Koshiri reliability
- Top-sided housing latch

Browse our full range of MiniBridge connectors at [www.erni.com/minibridge](http://www.erni.com/minibridge).

At ERNI, we support our clients through their entire developmental journey - from the prototype design to their finished product. Our class-leading experience and vast knowledge in the automation industry gives us a competitive edge over other manufacturers. It is no coincidence that our clients hold ERNI in high regard as an innovative leader and supplier of high-quality electronic connectors worldwide.

Contact us today at [info.eah@erni.com](mailto:info.eah@erni.com) if you wish to learn how ERNI can help you!