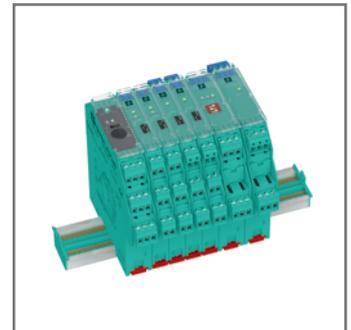




**A CHOICE OF SAFETY**

## **TRANSMITTER POWER SUPPLIES WITH SIL3**



### YOUR BENEFITS

#### SAVE SPACE

- The smallest transmitter power supplies on the market
- Reduce cabinet space by 30%

#### GET MORE DIAGNOSTIC INFORMATION

- Collective error message on Power Rail for safe and easy internal diagnosis
- Easy location of loop faults due to higher diagnostic coverage
- Status LEDs signals line faults

#### REDUCE IMPLEMENTATION EFFORT

- Sink and source outputs in one device
- Use fewer input channels in the control system compared to a redundant system

#### SAVE WIRING

- Achieve SIL3 loops with only one module, one field device, and one channel in the control system
- Safe wiring, no redundant installation necessary

# Achieve SIL3 applications

With more than 60 years of experience, Pepperl+Fuchs is one of the market leaders in intrinsically safe interface technology. We have now extended our range of products to include four new SIL3 transmitter power supplies for intrinsically safe applications.

### INCREASED EFFICIENCY WITH SIL3 DEVICES

Using the new SIL3 transmitter power supplies with SIL3 field devices significantly reduces wiring efforts. Compared to redundant SIL2 solutions, only one transmitter and one input is required in the safety system. Because of redundancy requirements, SIL3 was previously achieved only by using two separate inputs, both of which had to be monitored.

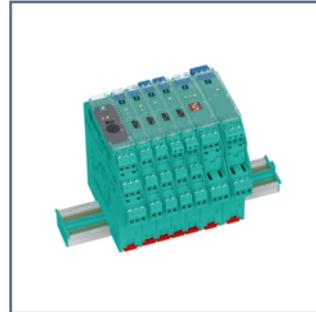
When used in a SIL2 loop, the diagnostic coverage featured by the SIL3 transmitter power supplies can extend the test periods for the loop up to ten years.

## HIGH PERFORMANCE WITH K- AND H-SYSTEM

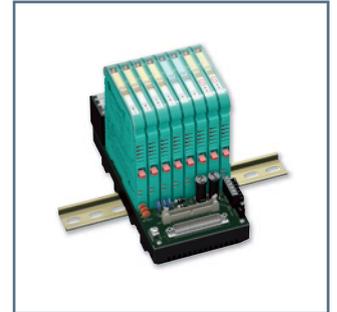
The new transmitter power supplies have the same system features of the well-known K- and H-System. They are fully compatible to the existing systems. We offer modules for each mounting specification.

**K-System** incorporates about 150 different intrinsically safe isolated barriers and signal conditioners. Assembled on the 35 mm DIN rail with Power Rail, the devices are powered and a single path for collective error messages from each module is provided. By simply snapping the modules onto the Power Rail, easy expansion and replacement during operation is possible.

**H-System** is a termination board solution and connects to the control system via a system connector. This reduces planning efforts, wiring and start-up time. Pre-wired boards and snap-on interface modules make installation and maintenance simple.



Solutions for every application with K-System



Plug-in connection to the control side with H-System

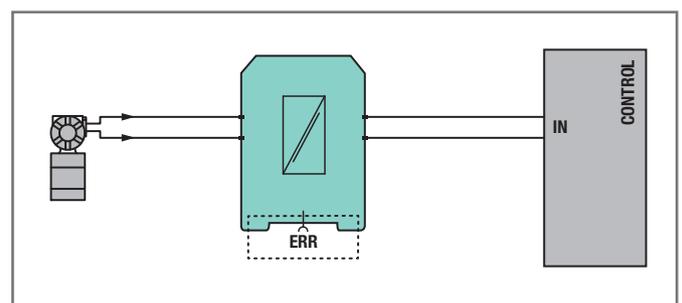
## FEATURES OF THE NEW SIL3 TRANSMITTER POWER SUPPLIES

With the four new transmitter power supplies you'll get multifunctional devices with many input and output features. Only 12.5 mm wide, the space-saving KCD2-STC-EX1.ES and HiC2025ES reduce cabinet space requirements by 30%. They can also be connected to active sources in the field. On the control side, active and passive current outputs are available in addition to a 1...5 V voltage output for the most flexibility.

This allows them to be installed in multiple applications. It decreases inventory and increases your efficiency.

All devices allow collective error messaging on Power Rail. A red status LED signals line faults and helps to ensure the reliable location of loop faults.

In addition to the 12.5 mm housings, the transmitter power supplies are also available in the standard 20 mm housing as KFD2-STC4-EX1.ES and for HiD-termination boards in 18 mm housings as HiD2025ES.



Single-loop SIL3

# PROCESS AUTOMATION – PROTECTING YOUR PROCESS



For over a half century, Pepperl+Fuchs has been continually providing new concepts for the world of process automation. Our company sets standards in quality and innovative technology. We develop, produce and distribute electronic interface modules, Human-Machine Interfaces and hazardous location protection equipment on a global scale, meeting the most demanding needs of industry. Resulting from our world-wide presence and our high flexibility in production and customer service, we are able to individually offer complete solutions – wherever and whenever you need us. We are the recognized experts in our technologies – Pepperl+Fuchs has earned a strong reputation by supplying the world's largest process industry companies with the broadest line of proven components for a diverse range of applications.

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