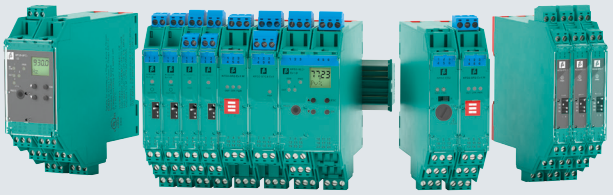
Safety above All.

K-System

Globally certified protection for people, plants, and the environment.



System Properties

- The most comprehensive interface portfolio for hazardous areas
- The system makes it possible to use modules for both hazardous and non-hazardous areas on the same rail
- Isolator modules are mounted on the Power Rail used for the power supply and collective error messages
- Many modules are available that meet the requirements of SIL according to IEC61508 (SIL 2 and SIL 3)
- SIL 3 for all signal types
- Packing density of up to 6 mm per channel for all signal types, further space savings of up to 50 % possible with the K-DUCT profile rail
- Can be used at ambient temperatures between –40 °C and +70 °C (–40 °F and 158 °F)

System Highlights

Simple and Flexible Mounting and Power Supply

- The infinitely variable Power Rail enables flexible extensions and last-minute changes
- The modules can be mounted horizontally and vertically
- Modules can be replaced during operation

Easy Maintenance

- Removable terminal blocks with test sockets
- HART signal transparency for simple access to field devices
- Internal diagnostics with display for fault, current, and input signal status

High Availability

- Low power consumption, efficient design, very low power dissipation
- Long service life due to low level of heat development in the switch cabinet
- Line fault detection for field circuits

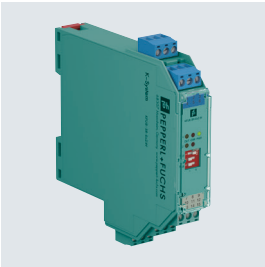
Worldwide Approvals and Support

- International approvals
- International support at more than 80 locations

Your automation, our passion.

PEPPERL+FUCHS

Digital Input Signals



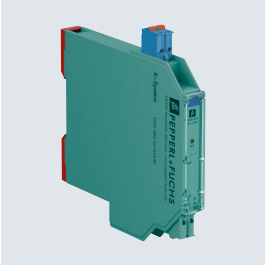
Switch Amplifier

- One, two, or four channels
- Input: NAMUR/SN/S1N sensors, volt-free contact
- Output: relay, transistor, voltage

Frequency Converters

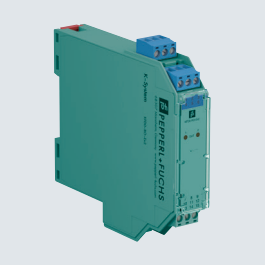
- One or two channels
- Input: NAMUR, volt-free contact, frequency
- Output: relay, transistor, 0(4) mA ... 20 mA

Digital Output Signals



Solenoid Drivers

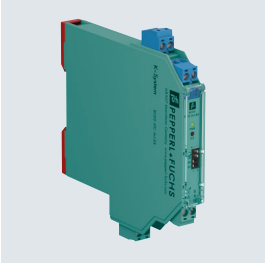
- One or two channels
- Input: logic input, field device supply
- Output: valve, acoustic or visual alarm



Relay Modules

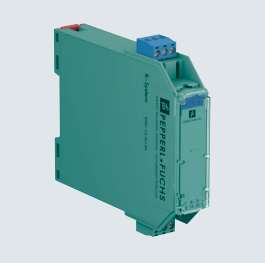
- Two channels
- Input: logic input
- Output: relay

Analog Input Signals



Transmitter Power Supplies

- One or two channels
- Input: 2-/3-wire transmitter, current/ active sources, 0(4) mA ... 20 mA, HART
- Output: relay, 0(4) mA ... 20 mA, HART



Repeaters

- One or two channels
- Field side: various current and voltage ranges, fire alarms, resistance thermometers
- Control side: various current and voltage ranges, HART, resistance

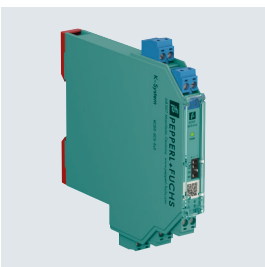
Measuring Signal Converter

- One or two channels
- Input: 2-/3-/4-/5-wire connection, DMS, temperature sensors, voltage, current
- Output: relay, different current and voltage ranges

Trip Amplifiers

- One channel
- Input: 2-/3-wire transmitter, DMS, temperature sensors, voltage
- Output: relay, different current and voltage ranges

Analog Output Signals



Current Drivers

- One or two channels
- Input: 4 mA ... 20 mA, 0 mA ... 40 mA, HART
- Output: fire alarm, I/P converter, positioner, 4 mA ... 20 mA, 0 mA ... 40 mA

For more information, visit
pepperl-fuchs.com/k-system