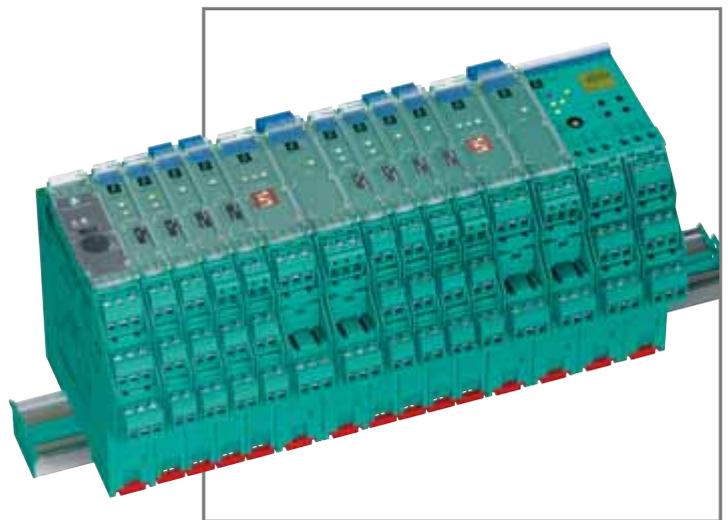




**RELIABLE TRANSFER ON POWER RAIL**

**ISOLATED BARRIERS  
IN K-SYSTEM**



# K-SYSTEM: SUITABLE EVERYWHERE

Pepperl+Fuchs is the world's leading manufacturer of intrinsically safe isolated barriers. Our large selection of K-System isolated barriers confirms this fact: the portfolio consists of over 150 different products. The K-System is easy to specify, integrate and expand, and is synonymous with safety and reliability.

## EXTENSIVE PRODUCT RANGE

- For all signals and applications
- From simple switch amplifiers to highly functional signal converters
- All modules with galvanic isolation
- Low heat dissipation thanks to low power consumption
- Broad supply voltage range including AC, DC, and our universal power supply (AC/DC)

## REDUCED MOUNTING COSTS

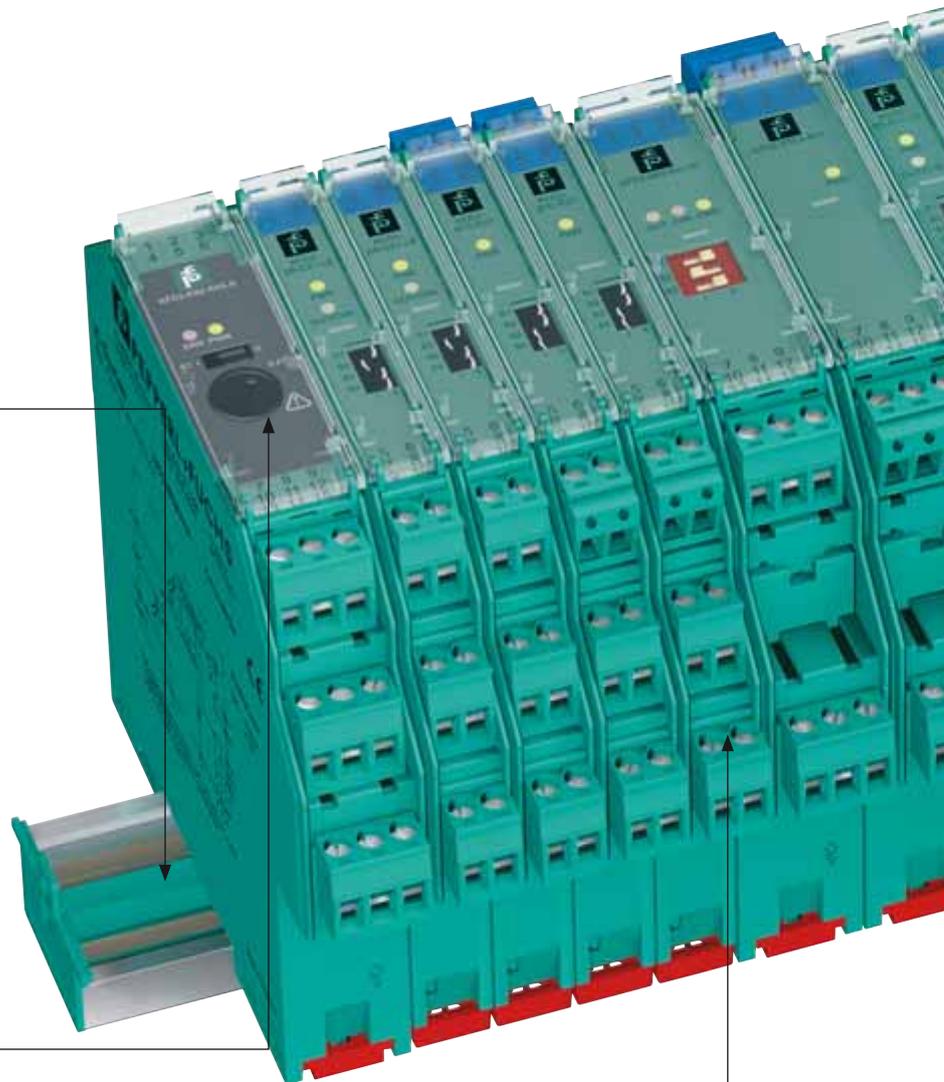
- Simply snaps on to a DIN mounting rail with integrated power rail insert
- Power supply and field loop mounting via power rail
- Simple expansion and replacement during operation
- Vertical and horizontal mounting
- Reduced I/O-wiring due to collective error message

## REDUNDANT POWER SUPPLY

- Simple and redundant power supply via power feed module or power supply
- Group protection
- Alarm signal for line or power fault
- Reduced power supply wiring

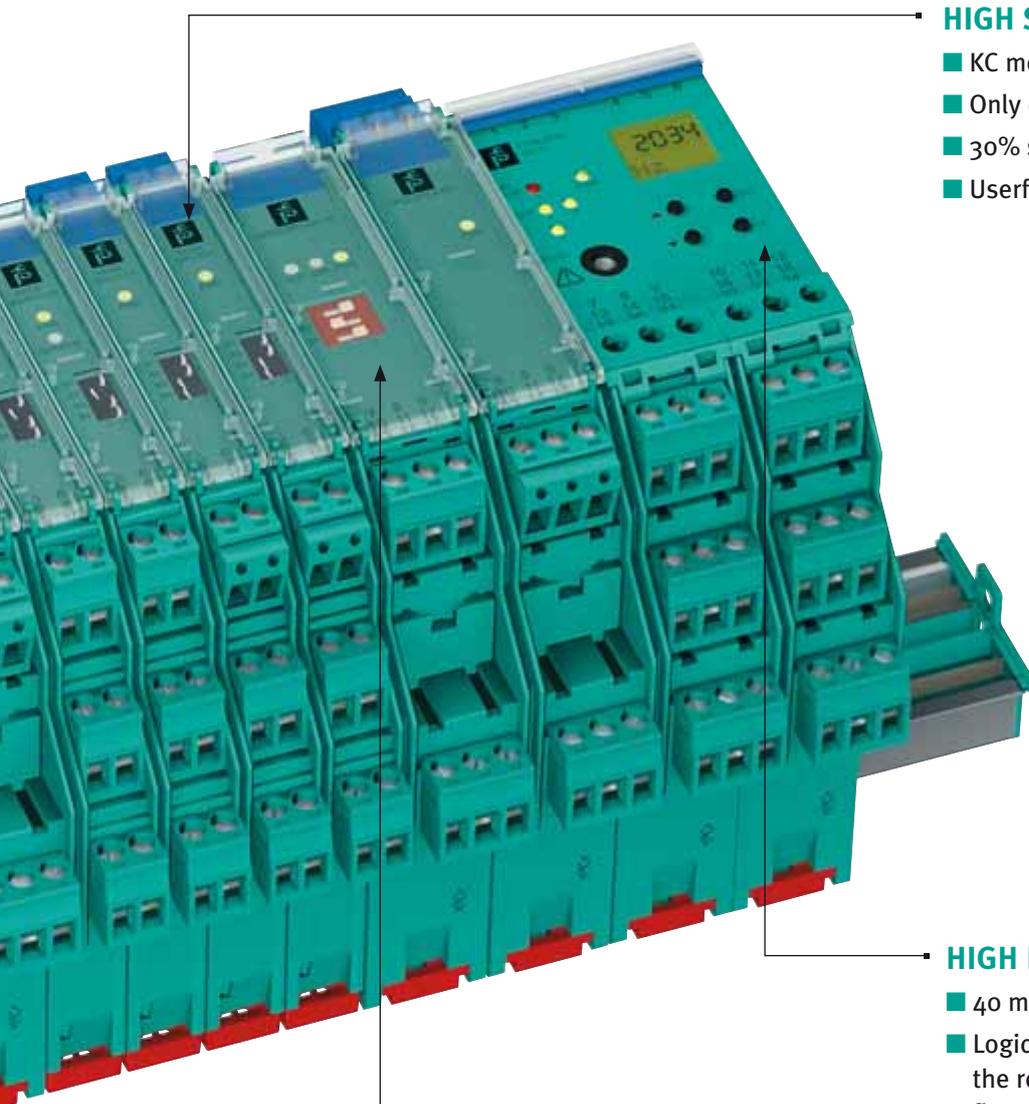
## QUICK WIRING

- Removable terminals
- Up to 2.5 mm/14 AWG cabling
- Terminal coding means no incorrect connection
- Terminal blocks with test points for HART-handhelds



# K-SYSTEM: THE UNIVERSAL HOUSING

Depending on the functionality and application, K-System has different housing widths. Interoperability between modules is guaranteed containing the same features and benefits. Whether it is the 12.5 mm KC-Modules or the 20 mm and 40 mm KF-Modules, the electrical and mechanical characteristics of the K-System are maintained. All barriers can be combined on Power Rail.



## HIGH SIGNAL INTEGRITY

- KC modules are only 12.5 mm wide
- Only 0.8 W power consumption per unit
- 30% space savings in the control cabinet
- Userfriendly front side switch

## HIGH FUNCTIONALITY

- 40 mm wide KF modules
- Logic control units determine and monitor the rotational speed and direction, slip and flow amounts
- Analog signal converters monitor signals from transmitters, measuring bridges and temperature sensors
- Configurable with front type buttons and display or free of charge software (FDT-DTM)

## MAXIMUM CHANNEL NUMBER

- 20 mm wide KF modules
- Up to 4 channels per device
- Highest packing density with only 5 mm per channel
- Extensive product range of isolated barriers

## K-SYSTEM: ACCESSORIES

Accessories are important for your installation. Appropriate power supplies, surge protection barriers, HART multiplexer and versatile commissioning tools make the K-System a well-rounded solution.



### DEVICE MOUNTING

- 35 mm DIN mounting rail with power rail
- Cable-duct with integrated mounting rail and power rail for even more space saving



### POWER SUPPLY

- Power rail compatible space-saving power supplies
- Power rail supply modules
- Simple and redundant power supply possible
- 4 A power supply for larger installations



### SURGE PROTECTION BARRIERS

- Reduced wiring with clip-on versions
- Screw versions for field devices available
- Universal barriers for mounting rails available
- Protects field devices and control cabinet installation with extremely fast responsiveness



### HART MULTIPLEXER

- For communication of up to 7936 field devices
- Capacitive galvanic isolation between channels
- Can be used to SIL3
- Termination boards and connection cables available
- Low space requirements and power consumption



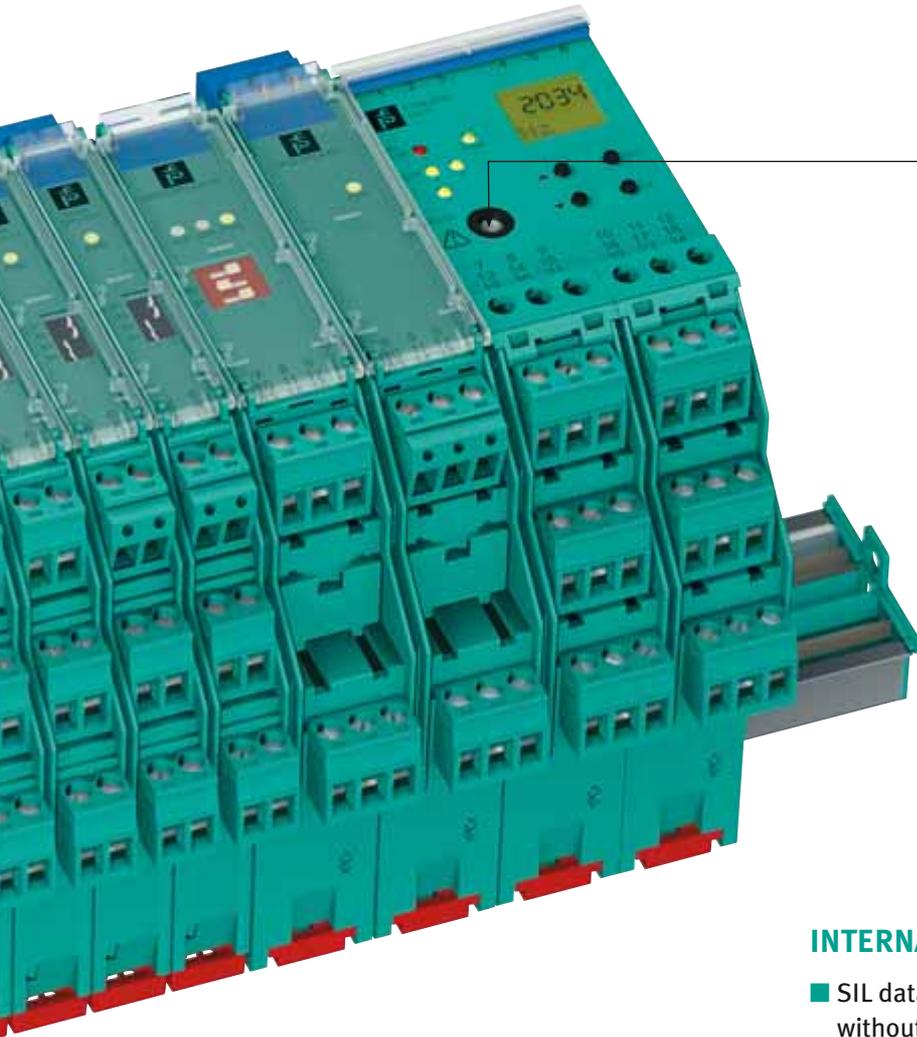
### COMMISSIONING

- Cage spring terminal blocks
- Free of charge software FDT-DTM
- Programming adaptors
- Simulators

# K-SYSTEM: RELIABLE AND ECONOMICAL

From planning to utilization, our K-System is impressive in both reliability and cost savings at the field device and control system. From an individual module to a complete system solution, the flexible and installation is a great feature of our K-System.

Also signal conditioners are available for non-intrinsically safe applications in the K-System.



## ■ SIMPLE CONFIGURATION

- Powerful software configuration tool: PACTware
- DTMs for various FDT base applications



## INTERNATIONAL SAFETY STANDARDS

- SIL data is available for systems and processes without additional charge. In order to reduce safety risks, Pepper+Fuchs has integrated SIL levels into the standard K-System offer.
- Standardized documentation: one set of models for all applications
- Global certification
- Replacement parts can be reduced to the minimum
- Comprehensive international support

## BI-DIRECTIONAL HART TRANSFER

- Field device parameter transfer
- Error detection / Analysis and diagnosis
- Preventative maintenance requirement



# 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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