Your Perfect Automation.

The right solution for every application.
Regardless of the technology.
Standard or customized.

Product Guide
Industrial Sensors, Systems, and Communication

Your automation, our passion.

PEPPERL+FUCHS

Product Guide

Enabling the Evolution in Manufacturing—Sensor and Connectivity Solutions

The right solution for every application—at Pepperl+Fuchs, this claim has applied to all components, systems, and solutions that we have been developing for you in the field of industrial sensors for more than seven decades. We are driven by providing absolutely reliable support for your applications and continually optimizing them. To achieve the best results, we intensively research your markets and the special challenges you face every day. This is why continuous dialog with you and cooperation at eye level is so important to our work. Together for success—that is our path.
Partnership needs proximity. That is why you will always find your contact person at more than 50 Pepperl+Fuchs locations worldwide. What's more, in close communication with you, our team of experts has been developing customized, individual solutions on a daily basis for many years—as one of a few, sometimes even the only manufacturer worldwide, where this service is standard. That is why Pepperl+Fuchs Customized Solutions are not only successfully established, but have become one of our most important performance features.

The broadest portfolio on the market, covering a variety of technologies and operating principles is the basis on which we develop the right solution for every application. Since the invention of the proximity switch in 1958, we have been constantly advancing our technologies and adding groundbreaking innovations. For example, the product range in the Industrial Vision area is so extensive that it can solve even highly complex vision applications—and it continues to expand. Pepperl+Fuchs' LiDAR sensors are state of the art worldwide with products such as the R2000 360° 2-D laser scanner. Pepperl+Fuchs is a global leader in ultrasonic and time-of-flight technology. Pepperl+Fuchs also provides technological highlights for safety-critical applications, such as the safePGV and safePXV safety sensors or the USi-safety ultrasonic safety sensor system.

Whether conventional applications or complex tasks such as the digital transformation of your application to Industry 4.0, rethinking established technologies and turning forward-looking concepts into real innovations are our focus. One example is industrial communication: to enable the integration of different components, sensors are needed with interfaces such as IO-Link, CAN, Ethernet, etc. We equip our sensors with these and other features so that every smart sensor can process even more data and information in the future. In doing this, we use the expertise of the entire Pepperl+Fuchs Group: fresh ideas from young start-ups combined with many years of expertise and experience in automation—paving the way for you to meet future challenges.

Join us in the future of factory automation!

New Additions to Our Industrial Sensor Portfolio

To develop the innovations that will make your vision of the digitalized factory possible, we are building on our established areas of expertise. With a strong focus on innovation, user input, and close customer cooperation, Pepperl+Fuchs is continuously looking for new ways to solve existing problems and anticipate the roadblocks ahead. Our strong portfolio of core technologies is the ideal foundation for solving the automation challenges of the future. Read on to learn about the products we have added to our ever-growing portfolio.

IIoT Starter Kit

Sophisticated Technologies and Solutions for Industry 4.0 Applications

- Connect factory floor sensors to the cloud with the user-friendly IO-Link masters and start the digital transformation of your plant
- Kit includes an IO-Link master, (3) IO-Link sensors, an Ethernet switch, a power supply, RFID tags, and all the necessary cabling to get started
- Sensor-to-cloud connection: IIoT protocols such as OPC UA, MQTT, and REST API enable this type of communication as well as the implementation of hybrid systems consisting of a PLC and a cloud

VIM Series Vibration Sensors

Condition Monitoring for Predictive Maintenance

- Optimized system reliability: vibration velocity, acceleration, and crest factor provide the most reliable information about the machine condition
- Long service life: V2A/V4A and duplex steel variants with extremely robust housing
- Use in demanding environments: extended temperature range from -40 °C ... +125 °C, use up to IP67
- Integration in safety-relevant applications: variants with certifications according to SIL 1/PL c and SIL 2/PL d

F191 UHF Read/Write Device with IO-Link

RFID Made Simple

- Economic, high-performance identification solution
- Optimal read range of up to 1 m for a wide variety of applications
- Industrial temperature range suitable for application in areas with high thermal stress
- System standardization with multi-protocol support via IO-Link master for most common bus systems

Ultrasonic Sensor L2 with Integrated CAN Interface

Easily Integrated into Mobile Machines

- Optimized for vehicles and mobile equipment—CAN interface and special connector options enable easiest integration
- Extremely robust due to extended temperature range, degree of protection (IP68), and optimal EMC properties
- Reliable distance measurement regardless of material, surface structure, and surface color
- Versatility: broad range of applications solved with one compact sensor

VOS 2-D Universal Vision Sensor

Master Numerous Identification and Inspection Tasks: Complexity Simplified

- Comprehensive vision tool set with flexibility in one camera for complex tasks without a complete vision system
- Vision tool evaluation built into the sensor and a user-defined output
- Graphical user interface for easy commissioning and setup
- Flexible camera portfolio with standardized connections: including sensor, illumination, and lens

CB10 I/O Hub with IO-Link

Maximum Flexibility in the Smallest Space

- Compact I/O hub with IO-Link for connecting up to 8 standard devices into IO-Link networks
- Configurable digital inputs/outputs for greatest application variety
- Easy integration into small panels due to space-saving housing design of 39.5 x 36 x 10.1 mm
- One-fits-all: a single version to support mechanical push buttons, 3-wire sensors, and stack lights

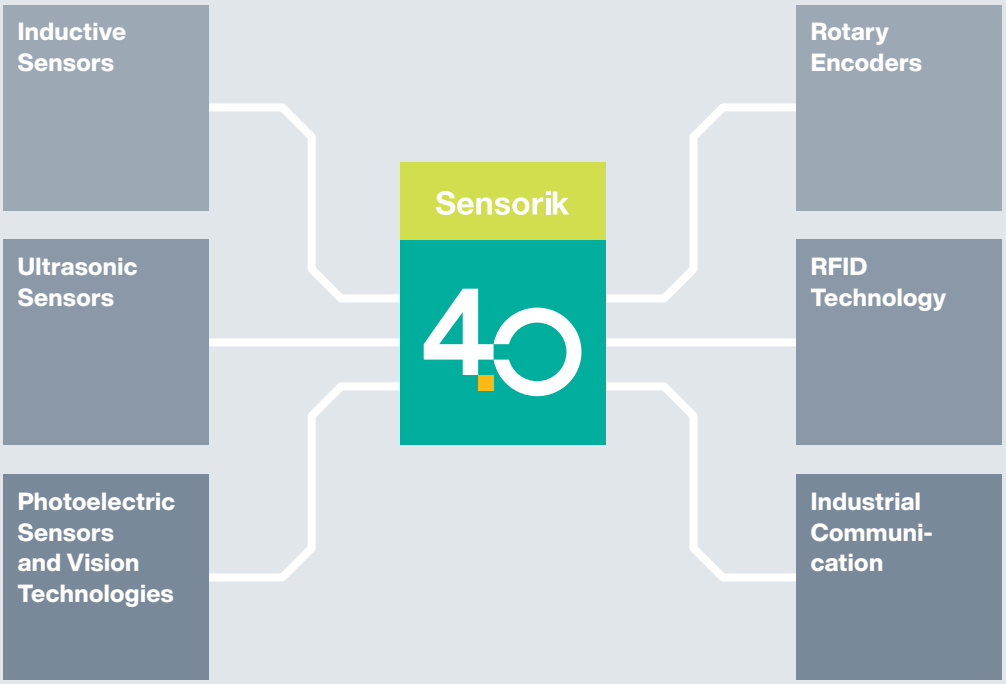
Joining the IIoT Revolution

Innovative Solutions for Perfect Applications.

At Pepperl-Fuchs, we are committed to helping you harness the transformative potential of Industry 4.0. Our focus is on enabling and supporting fully digitalized manufacturing processes. Our vision for the next generation of technologies is grounded in digital transformation, providing you with a competitive edge in an ever-changing landscape through sophisticated technologies and solutions tailored to your digital transformation projects.

The ideas behind our approach have not only led us to develop new sensors that can communicate with cloud frameworks and applications, but have also expanded our focus beyond sensors to include the infrastructure at the heart of Industry 4.0.

As we plan and design our next innovations, this roadmap guides us through the challenges, possibilities, and opportunities ahead. Our success has always been driven by our passion for your automation needs.



The Role of Industry 4.0 and IIoT in Achieving Climate Neutrality

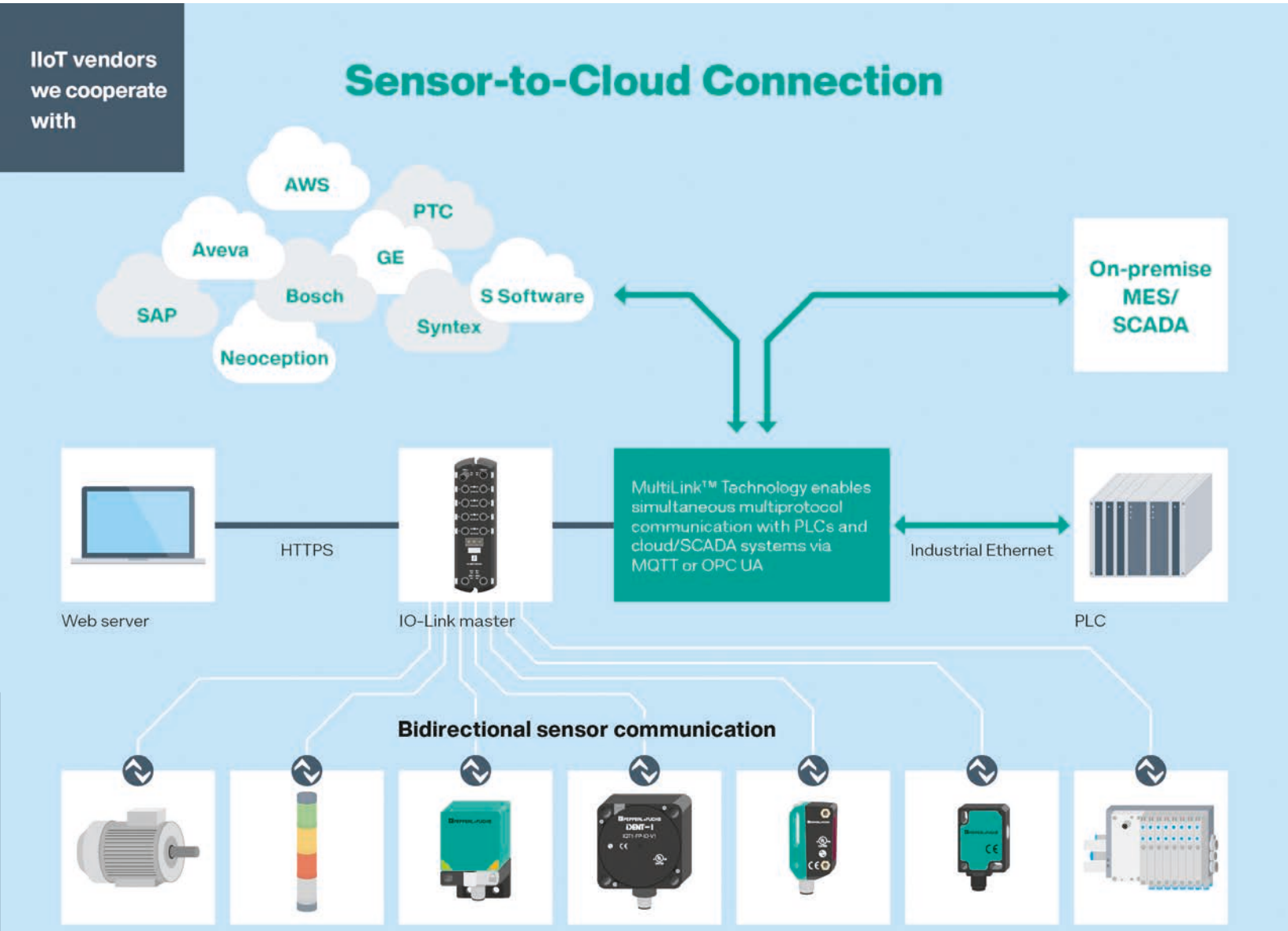
Achieving climate neutrality requires a three-pronged approach: comprehensive electrification, expansion of renewable energy sources, and increasing energy efficiency. Automation and digitization are essential for making plants more energy-efficient. To intelligently link the areas of energy generation and consumption, both must first be digitized. Consumers can automatically negotiate their energy requirements with producers, potentially flattening consumption peaks. Industry 4.0 plays a crucial role in this process.

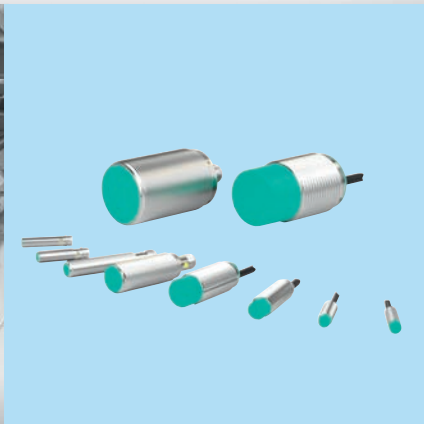
Stepping toward a New Generation.

Powerful IIoT connectivity, advanced functionalities, multi-sensor systems, and value-added services are the cornerstones of your plant's digital transformation. Connecting sensors on the factory floor to the cloud or the edge is a fundamental step on this journey.

IIoT and Industry 4.0 are not possible without bidirectional sensors. The ability to communicate automatically with every machine and production system is a fundamental requirement. This includes automation devices ranging from simple sensors to complex devices such as RFID, edge sensor gateways, and network communication solutions.

Our approach to digital transformation and smart manufacturing lays the foundation for sensors and communication gateways to communicate with all levels of control. In partnership with software providers, new data protocols such as MQTT, OPC UA, and REST APIs allow direct sensor communication to share necessary data analysis with multiple roles within the company.



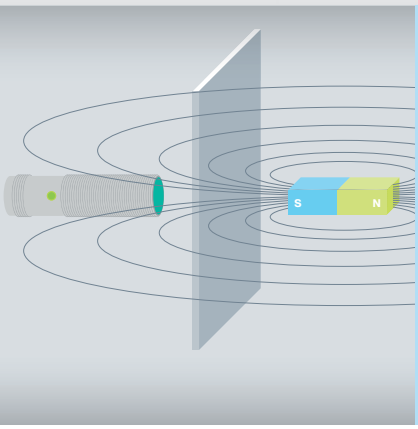


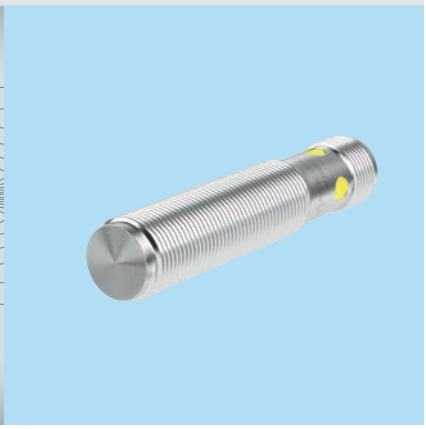
Inductive Sensors

Inductive proximity sensors are the preferred choice for the majority of applications requiring accurate, noncontact detection of metallic objects in machinery or automation equipment up to 100 mm. Advanced features include:

- IO-Link versions
- Stainless-steel face and body for harsh duty
- Reduction factor 1 for detecting all metals at full range
- NAMUR and Valve Indication models
- Degree of protection (IP68/69K) and –40 °C ... +250 °C extended temperature versions
- Safety-rated versions
- Rugged, weld-immune PTFE-coated sensors for harsh welding environments

For more information, visit:
pepperl-fuchs.com/pf-inductive





Magnetic Field Sensors

Magnetic sensors offer the advantage of providing larger detection ranges compared to inductive sensors. By using Hall-effect or magnetic-reed-switch technologies, these sensors can be used for difficult-to-solve applications that require detection of an opposing magnetic target over a longer range.

- Rectangular or cylindrical housings
- Plastic or metal construction
- NAMUR versions for explosive environments
- Easily mountable noncontact piston detection

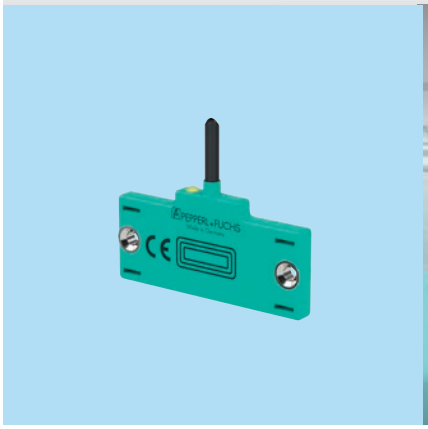
For more information, visit:
pepperl-fuchs.com/pf-magnetic

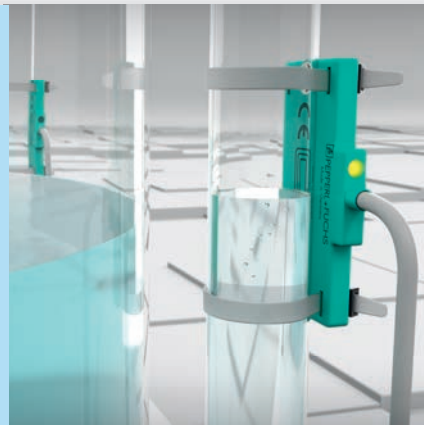
Capacitive Sensors

Capacitive sensors can be used to detect metal objects as well as nearly all other materials. These sensors are often used in applications including level and flow control for detection of liquids, grains, and powders.

- Stainless-steel or chemically resistant plastic housings
- Cylindrical or rectangular housing designs
- Fixed or adjustable sensitivity
- NAMUR versions for hazardous locations
- Sensing range up to 40 mm

For more information, visit:
pepperl-fuchs.com/pf-capacitive



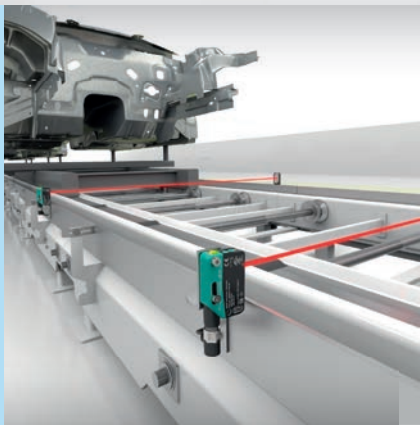


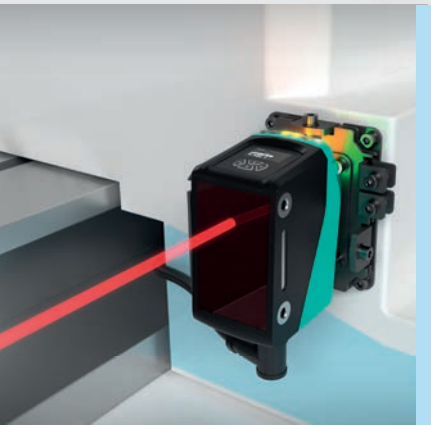
Photoelectric Sensors

Photoelectric sensors offer noncontact sensing solutions for a variety of automation applications. Available in a broad range of housing styles, operating principles, and specifications, it is easy to find the appropriate thru-beam, retroreflective, diffuse mode, or Triangulation (BGS) sensor with measurement core technology.

- Choice of sensing mode and output type
- LED options in infrared, visible red, or blue
- Red laser versions for increased distance and reduced light spot
- Multipixel array for superior background suppression
- Retroreflective sensors for glass detection
- IO-Link versions available

For more information, visit:
pepperl-fuchs.com/pf-photoelectric



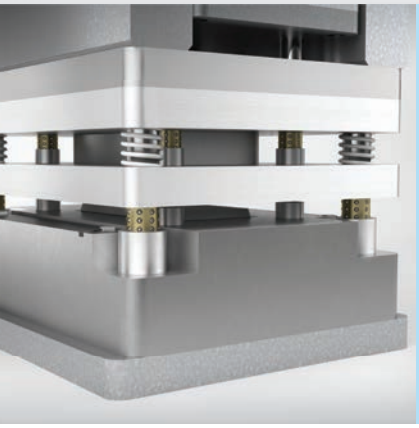


Distance Sensors

Distance-based photoelectric sensors address more challenging applications than photoelectric sensors that only detect the absence and presence of an object. Not only do they determine the presence of something, but also its position or distance by using either MPT (Multipixel Technology) or PRT (Pulse Ranging Technology).

- Versions for small, medium, and large detection ranges
- 2-D and 3-D LiDAR sensors with PRT
- Versions for low-temperature applications
- R2000 series includes detection, HD (high density), and UHD (ultrahigh density) versions with gapless 360° all-around visibility and high-resolution raw data

For more information, visit:
pepperl-fuchs.com/pf-distance



Fiber Optic Sensors

Fiber optic sensors and cables are the perfect solution for applications where direct mounting of sensors is not possible due to lack of space, extreme temperatures, etc. Small fiber optic beams are ideal for detecting tiny objects.

- Cylindrical or rectangular housing styles
- DIN rail-mountable versions
- Multiple amplifiers providing numerous cost/performance options
- Wide assortment of glass and plastic fiber optic cables
- Diffuse and thru-beam fiber configurations

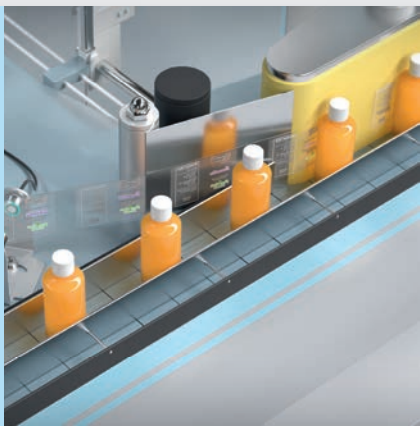
For more information, visit:
pepperl-fuchs.com/pf-su

Slot and Slot Grid Sensors

Slot and slot grid sensors are a special design of a thru-beam sensor used where only a short sensing distance is required. Ideal for detecting objects on vibrating and oscillating conveyors or in high-speed counting applications.

- Choice of slot widths from 2 mm to 220 mm
- Available in metal or plastic housings
- One-piece design eliminates alignment issues
- High switching frequency provides fast response times
- Slot grid versions for challenging counting and monitoring tasks

For more information, visit:
pepperl-fuchs.com/pf-gl

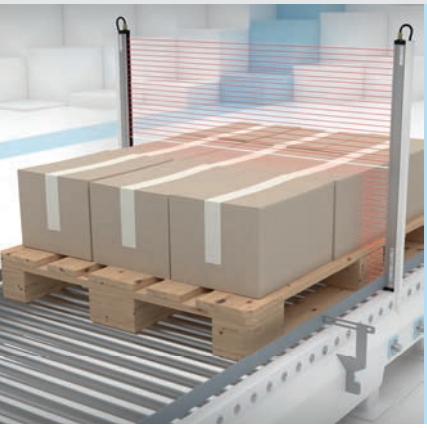


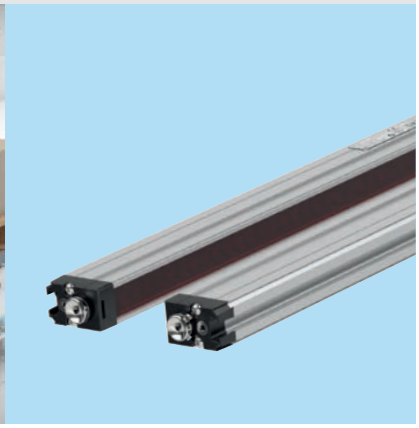
Contrast and Color Sensors

Contrast and color sensors are used to detect print or color marks on colored backgrounds. These sensors are used for precise object positioning in printing machines, packaging plants, and labeling machines in the food, beverage, and pharmaceutical industries.

- RGB light source
- High switch point accuracy
- Suitable for fast scanning processes
- IO-Link contrast sensor versions available

For more information, visit:
pepperl-fuchs.com/pf-contrast-color



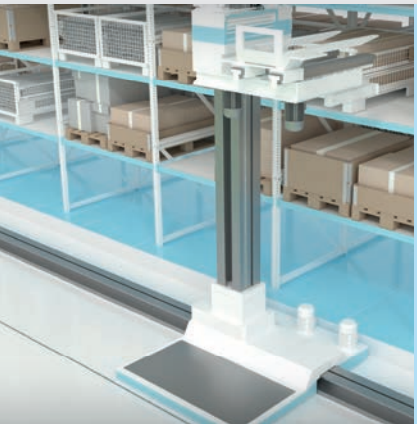


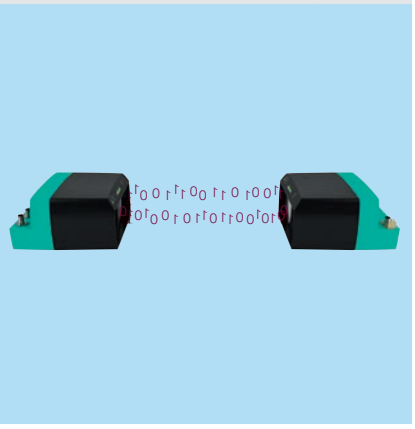
Light Grids

Light grids consist of a transmitter and a receiver that have an array of infrared beams. The two-dimensional detection field is used for monitoring large areas in the packaging industry and in warehousing and material handling.

- Plug-and-play installation
- IO-Link versions
- Fast object detection
- Measurement versions for dimensioning applications

For more information, visit:
pepperl-fuchs.com/pf-LGS





Optical Data Couplers

Optical data couplers provide bidirectional industrial Ethernet data transfer via a modulated light beam. Since this technology is optical rather than mechanical, there are no moving parts and wear is reduced. It is ideal for storage and retrieval systems, transfer cars, automated guided vehicles, and monorail conveyors.

- Consistently high data rate, regardless of distance up to 300 m
- Protocol-free data transmission
- 100 Mbps/full duplex speed
- Solves wireless Ethernet networking challenges

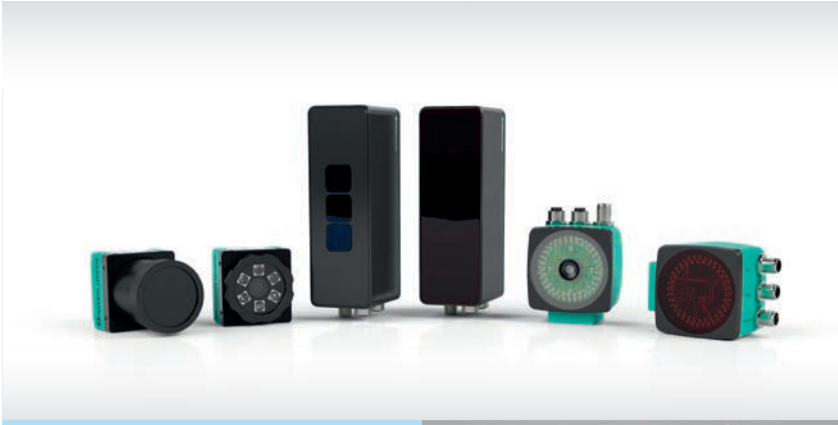
For more information, visit:
pepperl-fuchs.com/pf-optical-data

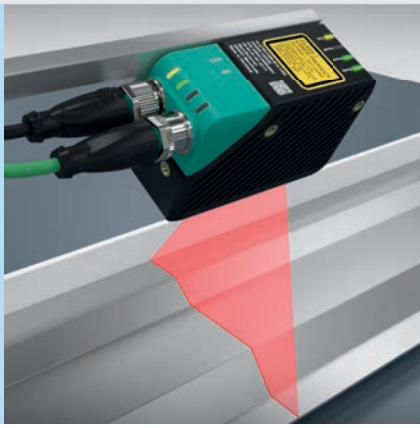
Industrial Vision

The wide range of vision sensors is tailored to the needs of your specific application. The solutions include:

- 2-D SmartRunner laser profile sensors
- 3-D SmartRunner stereo vision or time-of-flight technologies providing high-precision 3-D point cloud images
- 2-D vision sensors for tracking, positioning, feature recognition, quality control, identification, and measurement
- Intuitive ViSolution software interface for all vision sensor technologies
- Industrial event camera for documenting relevant situations

For more information, visit:
pepperl-fuchs.com/tf-vision





Ultrasonic Sensors

Easily integrate our standard designs into any machine environment. Special features, like offset or angled transducers, increase the ways in which these sensors can be integrated. Available as thru-beam, diffuse mode, or retroreflective mode, these products offer the user maximum flexibility—in both standard and specialized industrial applications.

- Various housing sizes and ranges
- Choice of sensing mode and output type
- IO-Link versions
- Vibration-resistant models for use in harsh and mobile applications
- High noise immunity and multiplex capability for added reliability
- Automatic sensor synchronization versions

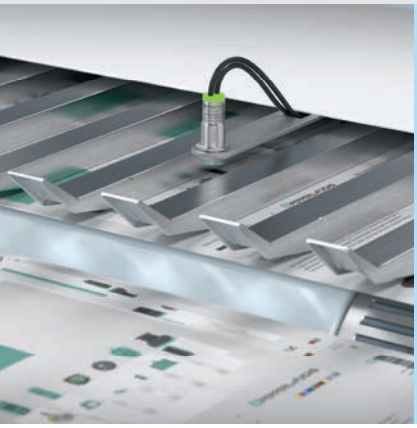
For more information, visit:
pepperl-fuchs.com/pf-ultrasonic

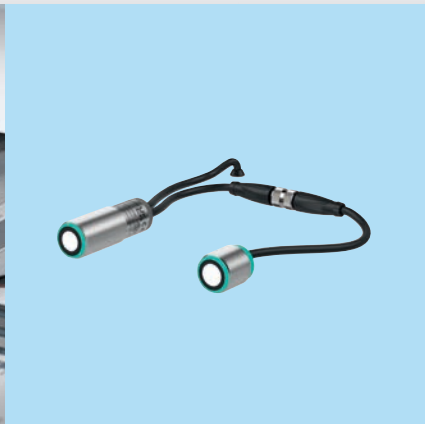
Ultrasonic Safety Sensors

The USi-safety ultrasonic sensor system is breaking new ground for safety applications—whether in challenging, dusty environments, or in outdoor areas. Machines and vehicles can be reliably protected using state-of-the-art ultrasonic technology and all of the advantages this brings.

- Safety up to Category 3 PL d for each of the two sensor channels per system
- Miniature sensor units are decoupled from the control interface
- Quick and easy parameterization and automatic documentation
- Multiple device installation possible, no mutual interference (no cross-talk)

For more information, visit:
pepperl-fuchs.com/pf-usi-safety





Double Sheet Sensors

Double sheet, label, and splice detector sensors are a unique version of thru-beam ultrasonic sensors for detecting single or multilayer material, including paper, plastics, metals, and any other shiny material.

- Up to 150 mm range
- Models to detect a wide range of materials and thicknesses
- High switching frequency
- Insensitive to dust and dirt
- Circuit board versions for commercial equipment

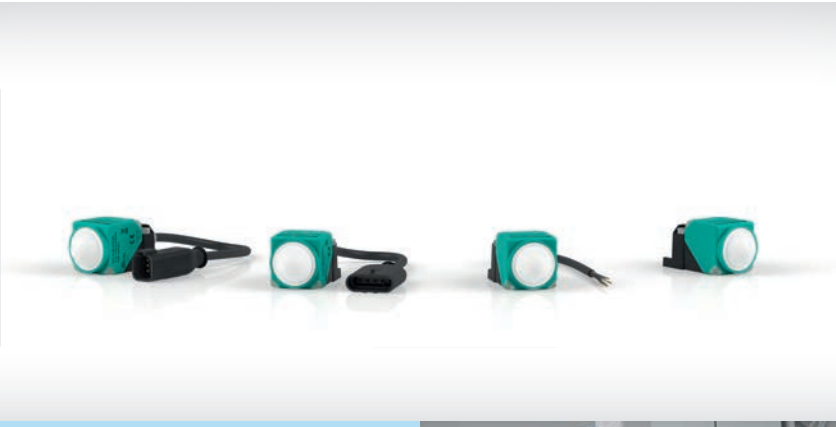
For more information, visit:
pepperl-fuchs.com/pf-M18-M30

Radar Sensors

Interference-free measurement even in rain, fog, wind, or dust. The industrial radar sensors defy the elements and are perfect for outdoor applications where fast distance and velocity measurement over long distances is required.

- Distance and velocity measurement over more than 25 m
- Interference-free measurement of the target object through objects with a lower reflection amplitude
- Integrated CANopen interface, vehicle-specific connectors, and extended EMC enable easy integration into mobile machines

For more information, visit:
pepperl-fuchs.com/pf-radar

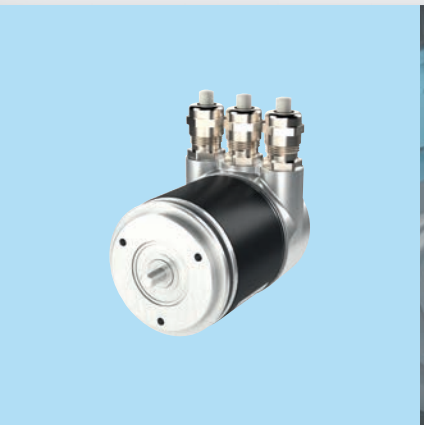


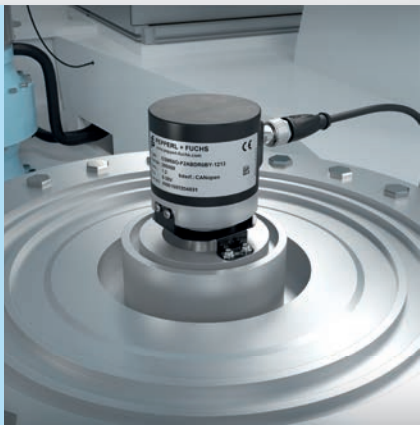
Absolute Rotary Encoders

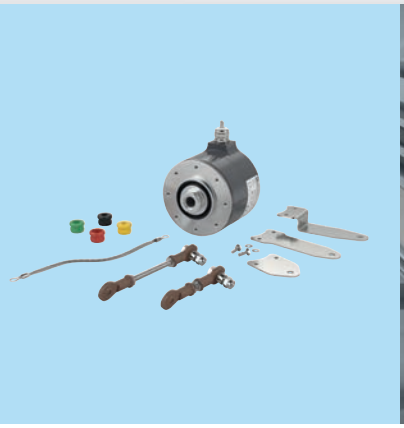
Absolute rotary encoders provide highly accurate measurements through a variety of output protocols that are not affected by constant shock and vibration or power failures.

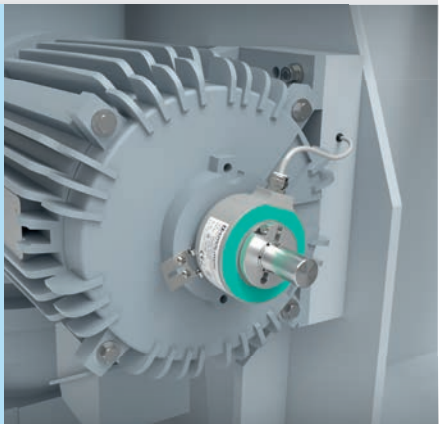
- Cost-effective magnetic or high-precision optical positioning scanning methods
- Singleturn and multiturn options
- Solid, hollow, and recessed hollow shaft options
- Wide range of electrical and mechanical interfaces including IO-Link, parallel, SSI, AS-Interface, CAN, DeviceNet, EtherNet/IP, PROFIBUS, and PROFINET

For more information, visit:
pepperl-fuchs.com/pf-abs-encoder







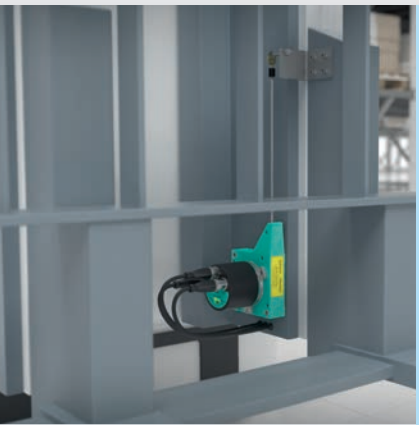


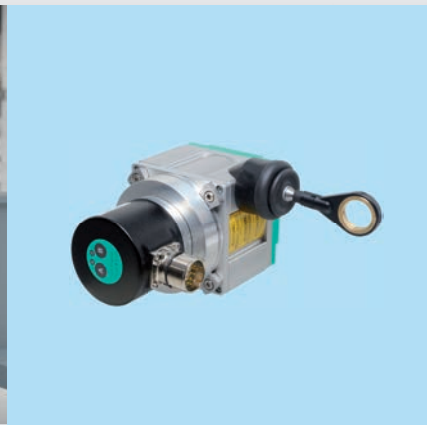
Incremental Rotary Encoders

Incremental rotary encoders generate a pulse output so that a controller can determine the speed or position of a rotating part with high measurement accuracy and process reliability.

- Optical and magnetic noncontact scanning methods
- Solid, hollow, and recessed hollow shaft options
- Versions with 6 output channels: A, B, Z, A', B' and Z'

For more information, visit:
pepperl-fuchs.com/pf-incr-encoder





Cable Pulls

Cable pulls allow encoders to measure linear motion by using a steel cable and a spring-loaded drum in combination with a suitable incremental or absolute rotary encoder.

- Attach directly to an incremental or absolute rotary encoder
- Cable wraps around an internal spring-loaded drum to ensure accuracy
- Excellent for linear measurements with high resolution

For more information, visit:
pepperl-fuchs.com/pf-cable-pulls

Inductive Position Measuring Systems (PMI)

Patented Technology for Precise Position Detection

The inductive position measuring system offers tremendous flexibility with a wide range of functions along with programmable measurements and switching ranges. The noncontact technology ensures reliable operation even in demanding environments.

- Measuring and switching in one sensor
- Sensor lengths from 14 mm to 810 mm
- Linear position or rotational position models
- Measurement output options include analog or IO-Link for network integration

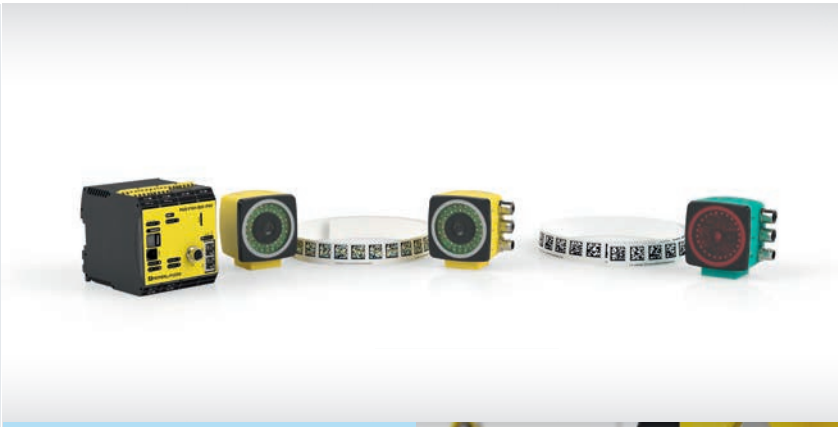
For more information, visit:
pepperl-fuchs.com/pf-PMI

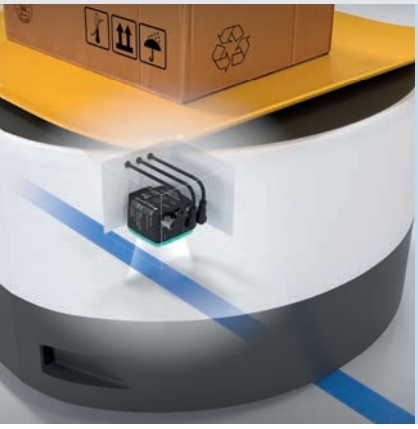
Camera-Based Linear Positioning (PCV, PXV)

The PCV, PXV, safePXV and safePXV/PUS Data Matrix positioning systems use Data Matrix codes for precise positioning.

- The best and most reliable absolute positioning system in the world—a unique combination of 2-D camera and Data Matrix code tape
- Noncontact positioning with a code tape length of up to 100,000 m
- Uncompromising reliability: multicode redundancy provides resistance to contamination and damage
- safePXV and safePXV/PUS enable SIL 3/PL e safe absolute positioning
- Reliable detection even if code tape is gapped, dirty, or damaged

For more information, visit:
pepperl-fuchs.com/pf-pxv





Camera-Based Track Guidance (PGV)

Colored tape for lane tracking, Data Matrix code tape for positioning and tags for navigation: Position Guided Vision (PGV) is the first and only Data Matrix positioning system that combines these technologies in one device.

- Reliably detects colored route-tracking tape/paint and Data Matrix codes, even on highly reflective surfaces
- Excellent ambient light immunity, > 100,000 lux, eliminates the need for additional contrast tape
- Wide scan window coupled with the 2-D Data Matrix technology provides seamless navigation over damaged or dirty tape
- safePGV enables SIL 3/PL e safe absolute positioning with a single sensor

For more information, visit:
pepperl-fuchs.com/pf-pgv

Position Encoding System (WCS)

The absolute linear encoder system provides fraction-of-a-millimeter position feedback to a wide range of industrial and commercial applications.

- Reliable position detection with the sophisticated position encoding system—even on curved tracks, inclines, declines, lane changes, and gradients
- Flexible integration with all common control systems
- IP69 protective housing for use in extreme outdoor applications
- Code rails and ID-pads for harsh environments: laminate code rails for chemical resistance, stainless-steel code rails for corrosion resistance
- safeWCS/PUS enables SIL 3/PL e safe absolute positioning

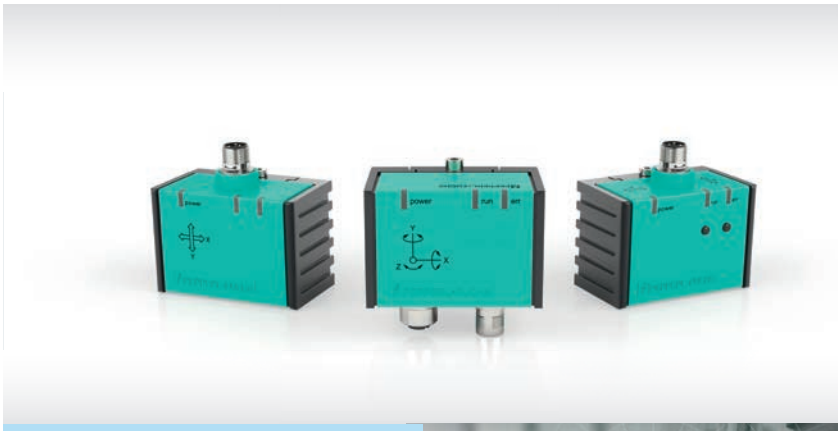
For more information, visit:
pepperl-fuchs.com/pf-wcs

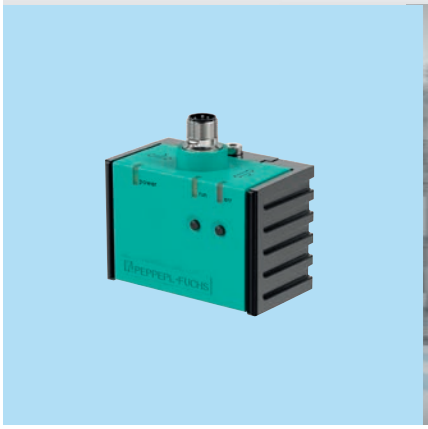
Inclination and Acceleration Sensors, Inertial Measurement Units

Inclination sensors reliably detect inclination angles in one or two axes. Acceleration sensors monitor strong vibration or acceleration on equipment. The inertial measurement unit F99 combines both inclination and acceleration detection for dynamic applications providing six-axis, 360° measurement.

- Rugged and suited for outdoor applications, including off-road and marine
- Extended temperature range down to –40 °C and degree of protection (IP68/69)
- Measuring range can be individually configured to meet application requirements
- Analog, CANopen, J1939, and MODBUS RTU interface options

For more information, visit:
pepperl-fuchs.com/pf-F99



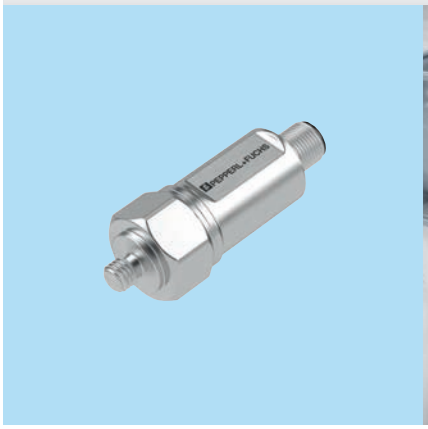


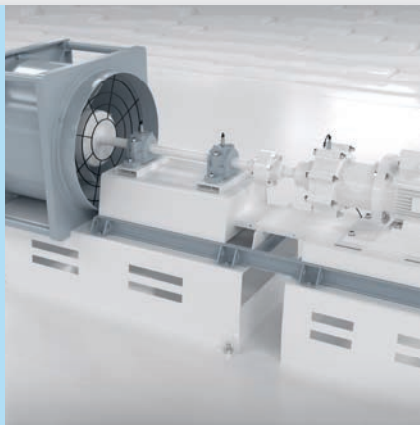
Vibration Sensors

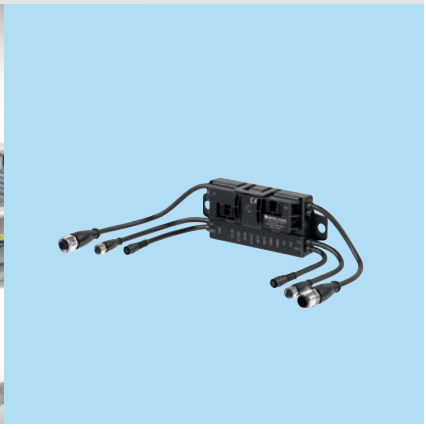
A reliable portfolio of robust vibration sensors for machine condition monitoring in many environments to prevent untimely breakdowns.

- Machine Monitoring—options for velocity, acceleration, bearing wear, and temperature
- Intelligent advanced warning
- Vibration diagnostics
- Rugged housings and encapsulated electronics
- Analog and IO-Link versions
- SIL 1/PL c and SIL 2/PL d variants
- Suitable for use in hazardous areas up to Zone 1/21

For more information, visit:
pepperl-fuchs.com/pf-vim





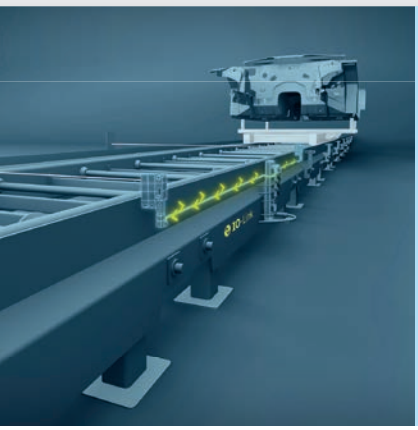


AS-Interface

AS-Interface has firmly established itself as a worldwide standard for the cost-effective transfer of power and communication along a single cable. AS-Interface Safety at Work is a safety-related extension of the AS-Interface and is simply integrated in an existing AS-Interface network.

- Open system, compatible with common fieldbus systems
- Topology-free and ideal for long conveyor runs
- Safe and non-safe signals on one cable
- Insulation piercing technology minimizes installation time and cost
- KE5 gateway is suitable for use in IoT applications: REST API interface enables easy data access parallel to fieldbus connection

For more information, visit:
pepperl-fuchs.com/pf-g20



IO-Link

Paving the way for a digital, transparent data exchange, IO-Link enables comprehensive diagnostics and individualized production with central data storage and automatic configuration.

- Bidirectional communication between the control system and the sensor
- IO-Link devices can be configured via the control system, which simplifies commissioning and enables rapid recipe changes without extended downtimes
- Unshielded industry-standard cabling
- International standardized interface
- IO-Link can be used across brands; integrate new devices into your existing systems

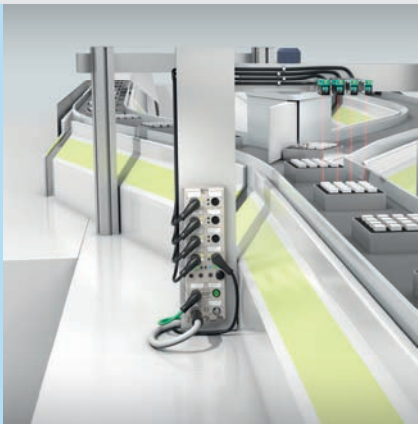
For more information, visit:
pepperl-fuchs.com/tf-io-link

IO-Link Masters, Ethernet IO Modules, and I/O Hubs

Fieldbus systems ensure reliable data transfer between the control and sensor/actuator levels and enable fast connection of digital and IO-Link devices.

- Support the most common Ethernet protocols: PROFINET, EtherNet/IP, EtherCAT, and MODBUS TCP with MQTT, OPC UA, and REST API capabilities for IIoT applications
- Field mount and panel mount versions, configurable with rotary switch
- ICE2 and ICE3 series IO-Link masters with integrated OPC UA interface enable cloud-based Industry 4.0 solutions
- I/O hubs with IO-Link interface decentralizes collection of numerous binary sensor signals and connects them to an IO-Link infrastructure

For more information, visit:
pepperl-fuchs.com/pf-io-link-masters



RocketLinx® Managed and Unmanaged Ethernet Switches

RocketLinx series managed and unmanaged Ethernet switches are designed for mission-critical environments that require extended operating temperatures, rugged enclosures, high-performance communication, and reliable data transfer.

- Power-over-Ethernet versions for power and communications on a single cable
- Copper and SFP fiber ports
- Fast Ethernet and gigabit speeds
- Alarm relays and redundant power inputs
- PortVision Discovery and Management Software for easy configuration

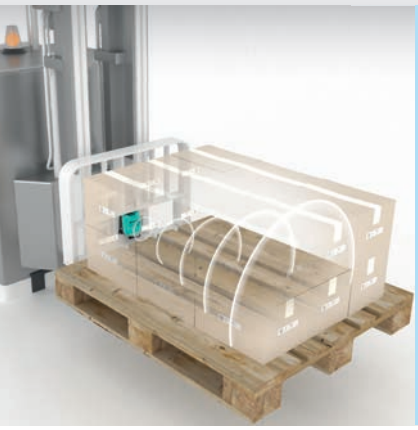
For more information, visit:
pepperl-fuchs.com/pf-rocketlinx

Serial Gateways (DeviceMaster)

Pepperl+Fuchs DeviceMaster industrial gateways offer a range of connectivity solutions for devices supporting serial, MODBUS, and TCP/IP communications with Ethernet and industrial Ethernet networks.

- EtherNet/IP, PROFINET, MODBUS TCP, TCP/IP
- RS232/422/485 serial communication
- Simple commissioning and powerful diagnostics
- PortVision DX management software

For more information, visit:
pepperl-fuchs.com/pf-devicemaster



Identification Systems—RFID

RFID (radio frequency identification) refers to technologies that use radio waves to automatically identify objects or people. Typically, a serial number or other product-/object-related information (“identifier”) is stored on an RFID tag, which is attached to an asset. This information can be wirelessly read or updated as needed in the application.

- Eliminates error-prone manual data collection
- Provides better transparency and huge speed gains
- Interface options include PROFIBUS, PROFINET, EtherNet/IP, TCP/IP, MODBUS TCP/IP, EtherCAT
- Low, high, and ultrahigh frequency range readers and tags
- Tags for challenging environments: extended temperatures, excessive wear and tear, mounting in or on metal, and hazardous locations

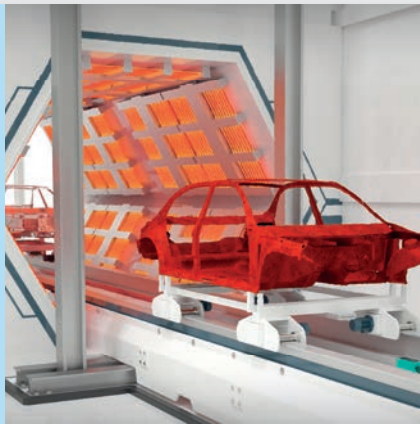
For more information, visit:
pepperl-fuchs.com/pf-rfid

Optical Identification

From 2-D code readers and handhelds to barcode scanners and special solutions—the mobile and stationary sensors reliably and safely solve track-and-trace applications with a wide variety of code types and under the most challenging conditions.

- Stationary and handheld 1-D and 2-D code readers, special solutions
- OIT systems offer highly reliable read performance with a wide variety of code types, at temperatures up to 500 °C
- Solutions for distances of 0.1 mm up to 2 m
- Reliable in extreme temperatures, dusty or dirty environments, and in applications requiring high scan rates
- Interface options include Ethernet TCP/IP, USB, serial interfaces, I/Os, or even radio interfaces such as Bluetooth®

For more information, visit:
pepperl-fuchs.com/pf-opto-ident

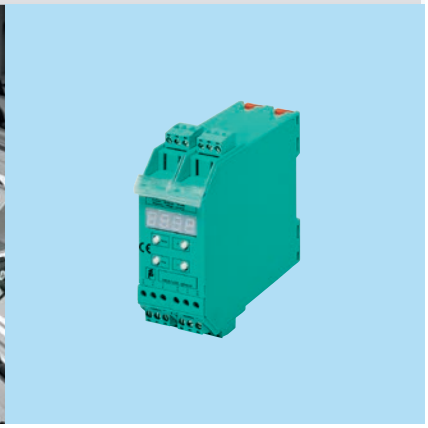


Functional Safety

For decades, Pepperl+Fuchs has been a driving force in industrial automation. Our in-depth understanding of functional safety norms and regulations is the basis for trusted safety components. We have a department of trained engineers who safely apply traditionally “non-safe” or “safe” devices in product or process-safe applications.

- More than 750 SIL/PL assessed devices, ensuring the best solution for your individual applications
- Safety-rated ultrasonic sensors, inductive sensors, rotary encoders, and AS-Interface Safety at Work
- Safety edges, light barriers, and safe positioning
- Wide range of training programs for automation professionals, geared toward management, engineering, production, and safety equipment design for potentially hazardous atmospheres

For more information, visit:
pepperl-fuchs.com/tf-functional-safety

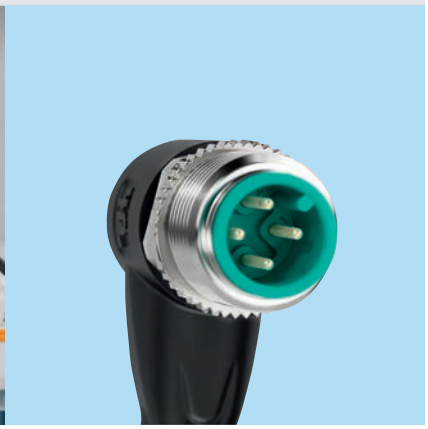


Displays and Signal Processing

In many counting and control processes, sensor signals need to be clearly displayed, monitored, or processed.

- Pulse counter units and displays count and measure events. Sensor signals representing positions, velocities, and flow rates can also be displayed, controlled, and monitored.
- Signal converters convert sensor signals into more application-specific or user-friendly formats.
- Process displays visually display analog signals using large LEDs.

For more information, visit:
pepperl-fuchs.com/pf-displays



Connectivity

This portfolio features high-performance sensor cables, data and field connectors, junction blocks, sensor actuators, sensor-actuator receptacles, and splitters for industrial automation.

- M8, M12, ½" and ⅞" sensor-actuator cables in PVC, PUR, PUR Automotive, and POC (for welding areas) jacket materials
- Valve connectors, field-attachable connectors, splitters, and junction blocks
- Data connectors for almost any industrial interface, from Ethernet and CANopen to USB and RS-232.
- Bulk raw cable available
- 100° angled M8/M12 versions extend service life and reduce stress on cable conductor

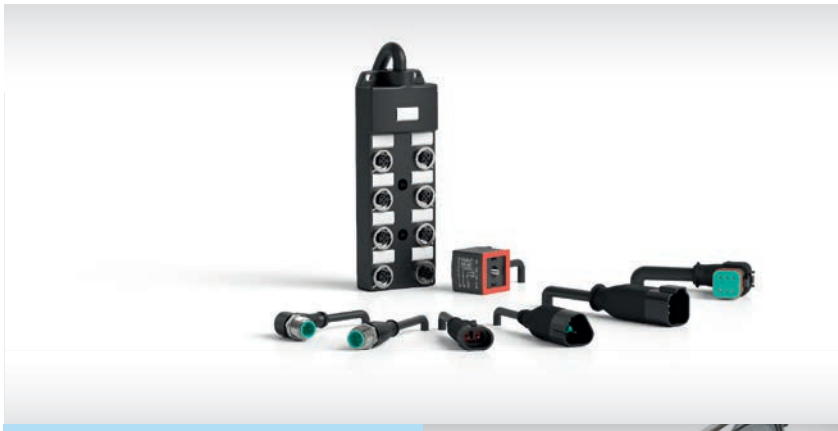
For more information, visit:
pepperl-fuchs.com/pf-connectivity

Mobile Equipment Connectivity (MEC)

Pepperl+Fuchs offers a series of connectors for wiring sensors and actuators in these challenging environments. The MEC series features popular DT connectors from company DEUTSCH combined with special customizations by Pepperl+Fuchs for mobile applications.

- Overmolded DT connectors optimized for mobile equipment
- Suitable for demanding, outdoor conditions with degree of protection (IP68), –50 °C ... +105 °C cable temperature range, and UV/oil resistance
- Rigorous testing and quality standards with in-house production and zero-defect tolerance
- Innovative catch design makes securing protective cable loom quick and easy

For more information, visit:
pepperl-fuchs.com/pf-mec

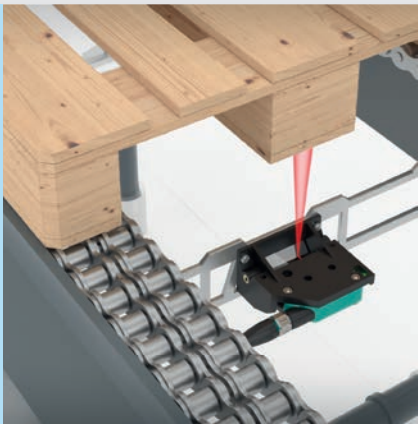


Our Solutions, as Individual as You.

Every customer is unique. That's why Pepperl+Fuchs doesn't just offer a broad portfolio of standard products—we also engineer a tailor-made solution that perfectly meets your requirements. Because our work is only technically perfect when it works perfectly for you.

- Optimizing inductive, photoelectric, ultrasonic, and position feedback sensor attributes to save time and reduce costs
- Customized products are ready for immediate use
- Solutions range from minor adjustments and specially designed products to a complete package that includes integration and certification

For more information, visit:
pepperl-fuchs.com/if-custom-solutions



Your automation, our passion.

Explosion Protection

- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex® Fieldbus Infrastructure
- Remote I/O Systems
- Electrical Explosion Protection Equipment
- Purge and Pressurization Systems
- HMI Systems
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Radar Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Vibration Monitoring
- Industrial Ethernet
- AS-Interface
- IO-Link
- Identification Systems
- Displays and Signal Processing
- Connectivity

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