

VALVE POSITION SENSING WITH A GLOBAL VIEW





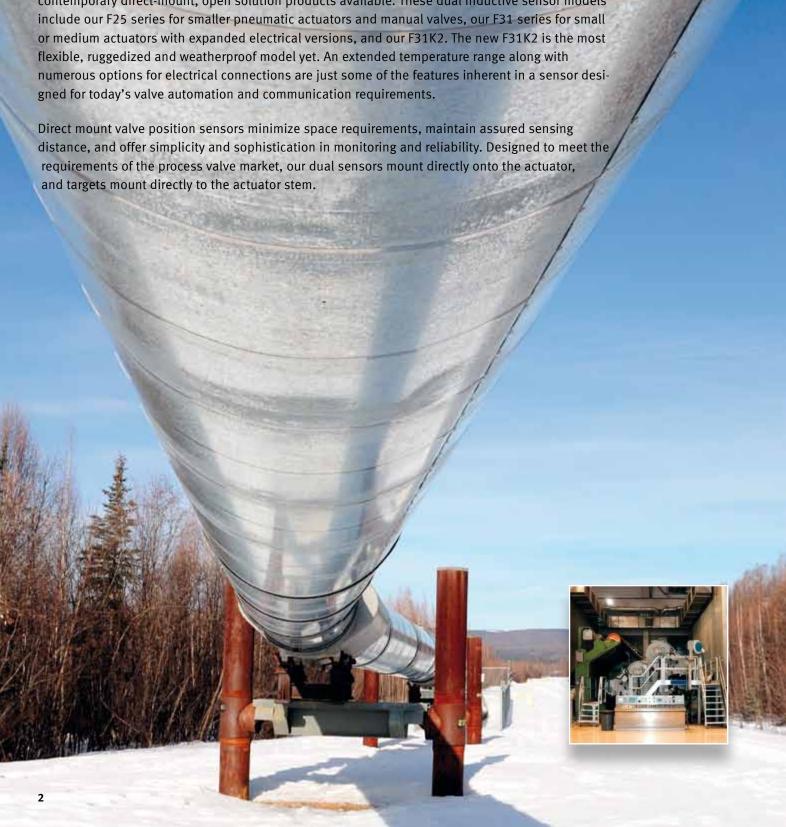




PEPPERL+FUCHS - YOUR TRUSTED PARTNER



The release of Pepperl+Fuchs' new F31K2 valve position sensor completes the family of the most contemporary direct-mount, open solution products available. These dual inductive sensor models include our F25 series for smaller pneumatic actuators and manual valves, our F31 series for small or medium actuators with expanded electrical versions, and our F31K2. The new F31K2 is the most flexible, ruggedized and weatherproof model yet. An extended temperature range along with numerous options for electrical connections are just some of the features inherent in a sensor designed for today's valve automation and communication requirements.

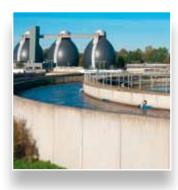


PRODUCT PORTFOLIO DUAL SENSORS

IT'S YOUR CHOICE						
	BASIC	STAN	IDARD	PREMIUM		
Sensors	Series F25	Series F31	Series F31K	Series F31K2		
Highlights	 Dual sensor Direct mount to all standard pneumatic actuators For use with manual valves 	Dual sensorDirect mount to all standard pneumatic actuators		 Dual sensor Direct mount to all standard pneumatic actuators Robust and suitable for outdoor use 	п	
Application range	For manually operated valves as well as small and medium-sized actuators	For direct mounting on actuators in indoor and outdoor areas		Optimized solution for outdoor use		
Design	Very compact design	Compact design	Compact design with terminal compartment	Modular, robust "dual housing" design with large terminal compartment		
Housing material	Plastics (PBT)	Plastic	es (PBT)	Translucent plastics (PC), aluminium		
Connectivity (mech. and electr.)	CablesPlug and socket	CablesPlug and socket	Terminal blockCable glands	Plug-in terminal blockCable glands or conduit connectionsMetric or inch threads		
Temperature range	-25 +70 °C	-25	+70 °C	-40 +75 °C		
IP protection	IP 67	IP 67		IP 66, 67, 69K		
Electronics	NAMUR (Safety NAMUR (Safety NAMUR (Safety NAMUR (Safety NAMUR (Safety NAMUR)) Safety NAMUR (Safety NAMUR) Safety N	NAMUR , SIL2 DC 2-wire DC 3-wire AC/DC AS-Interface		NAMUR		
Solenoid outputs	none	1 or 2 outputs		1 or 2 outputs		

^{*} in preparation





TYPICAL APPLICATIONS

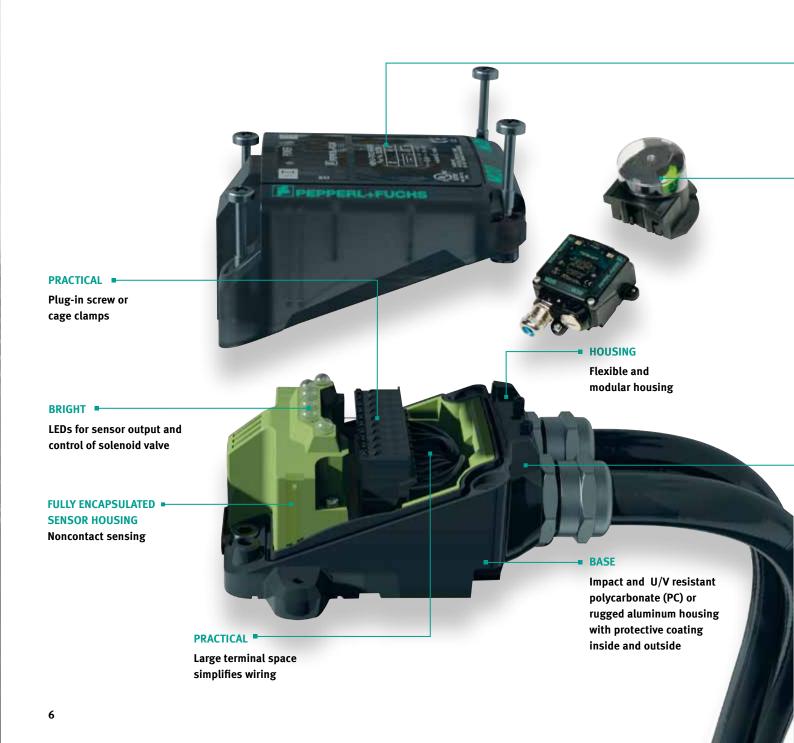
- Oil and gas industry
- Chemical and petrochemical industry
- Offshore and marine
- Food industry
- Water treatment and wastewater industry
- Pulp and paper industry
- Pharmaceutical industry
- Metal and mining industry





OPTIMIZED SOLUTION FOR OUTDOOR USE

The sensor series F31K2 is designed for uncompromised use in outdoor areas. The F31K2's unique double housing construction provides double mechanical protection and impermeability. The construction materials provide high U/V, elevated temperature, and corrosion resistance. Due to the open solution and the translucent housing, the integrated beacon is highly visible and customized versions are available. Convince yourself:



TEMPERATURE RESISTANT

U/V RESISTANT

WATERPROOF







EXTREMELY ROBUST

Optimized for outdoor use – high temperature, U/V, and salt water resistant

BEST VIEW

Highly visible beacon



FEATURES

- Inductive dual sensor with extended sensing range
- Electronic amplifiers with Ex approval
- Plug-in screw or cage clamps
- Connections for cable or conduit fittings with long screw threads
- Connection of 1 or 2 solenoid valves
- Direct installation on NAMUR actuator holes 30 x 80 mm, 30 x 130 mm

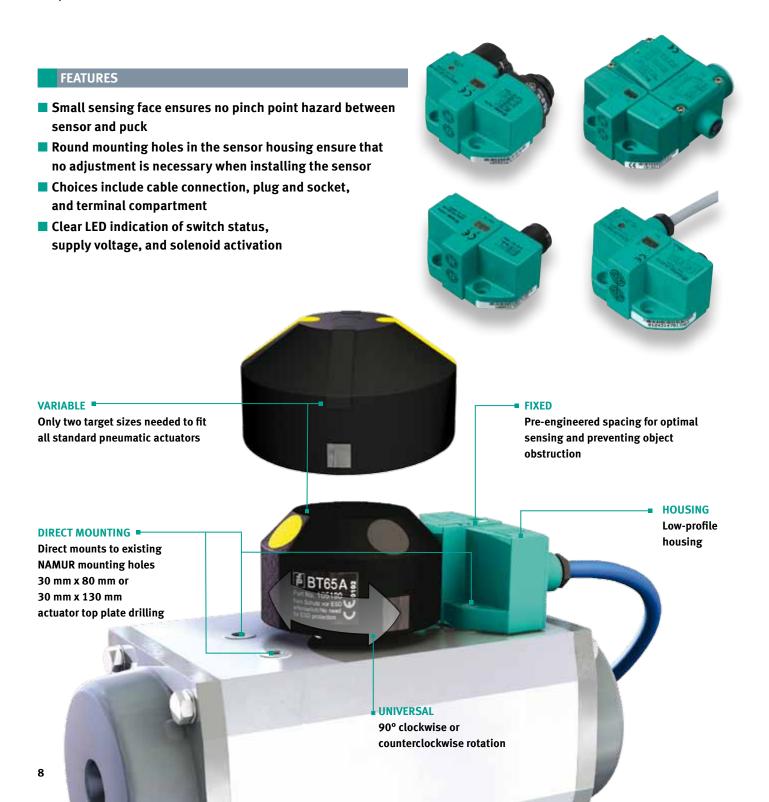
MOUNTING

Mounts directly on standard actuators



FOR DIRECT MOUNTING ON ACTUATORS IN INDOOR AND OUTDOOR AREAS

The standard series F31/F31K are best suited for position feedback that enables direct, stable, and durable mounting of the sensor and actuator. The variable dual sensors are suitable for all normal actuators and are easy to mount.



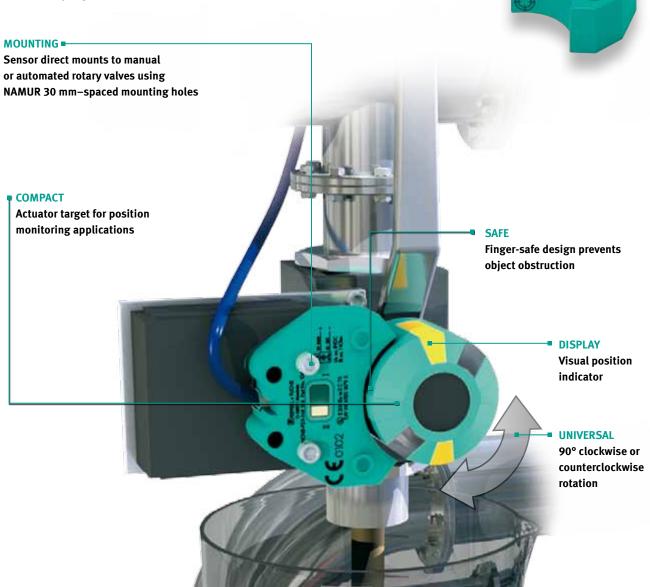
FOR MANUALLY OPERATED VALVES AS WELL AS SMALL AND MEDIUM-SIZED ACTUATORS

The F25 sensor series is an effective solution for valve positioning. They combine two sensing elements in one device inside one enclosure, reducing installation and maintenance costs considerably. The F25 sensors are suitable for both the switch box enclosure as well as for direct mount onto the actuator.



FEATURES

- Dual sensor with two active zones
- Adjustment-free mounting: maintains accurate sensing distance
- Cable or plug connection



SENSOR TARGETS

BT65A

- For standard 30 mm x 80 mm actuator top plate mounting
- For shaft heights of 20 mm and 30 mm (Spacers included in delivery package)
- For shaft diameters up to 58 mm
- For clockwise and counterclockwise rotating drives with 90° and 180° rotational movement
- With four actuating elements (fixed at 90° offset)
- Also available with reversed working direction



BT65-F31K2-RG-EN

- Valve position indicator, OPEN/CLOSE in signal colors with high visibility and impact-resistant plastic housing SH-F31K2
- With two sensor targets in stainless steel, adjustable in 5° increments
- Standard size of 30 mm x 80 mm for mounting on the pneumatic actuator
- For shaft heights of 20 mm and 30 mm (spacers included)
- For shaft diameters of up to 49 mm
- For clockwise or counterclockwise rotation



BT115A

- For standard 30 mm x 130 mm actuator top plate mounting
- For shaft heights of 30 mm and 50 mm (Spacers included in delivery package)
- For shaft diameters up to 90 mm
- For clockwise and counterclockwise rotating drives with 90° and 180° rotational movement
- With four actuating elements (fixed at 90° offset)
- Also available with reversed working direction

Actuator	Rotary F25	Rotary F31/F31K/F31K2	
	Non-contact design	Non-contact design	
For standard 30 mm x 80 mm actuator top plate mounting	•	•	
For standard 30 mm x 130 mm actuator top plate mounting		•	
90° rotation CW or CCW	•	•	
180° rotation CW or CCW		•	
Reversed working direction	•	•	
Fully adjustable damping		•	
Antistatic (conductive) construction		•	







SH-BT65-F31K2

- Protective housing for actuator series BT65-F31K2-...
- Impact and U/V resistant plastic material
- Captive screws in stainless steel
- Standard size 30 mm x 80 mm for mounting on the actuator



SH-F31K2

- Protective cover for F31K2 in stainless steel
- Optimized for outdoor use high temperature, U/V, and salt water resistant
- High impact protection
- Easy mounting



MH-BT-F03...-F07 MOUNTS TO MANUAL VALVES USING APPROPRIATE BRACKETS

- Rugged stainless steel holder and vestamid plate
- Easy mounting
- Easy to adjust
- Conforms to standards ISO5211-DIN3337
- Sizes F03 to F07, lock nuts M6 to M8



FACTORY AUTOMATION – SENSING YOUR NEEDS



Pepperl+Fuchs sets the standard in quality and innovative technology for the world of automation. Our expertise, dedication, and heritage of innovation have driven us to develop the largest and most versatile line of industrial sensor technologies and interface components in the world. With our global presence, reliable service and flexible production facilities, Pepperl+Fuchs delivers complete solutions for your automation requirements – wherever you need us.

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