

# Sensors for Valve Position Detection - F31K2 Series



### Standard Technical Data

<b>Voltage type</b>	DC
<b>Connection type</b>	Terminal compartment
<b>Housing length L</b>	106 mm
<b>Housing width W</b>	100 mm
<b>Housing height H</b>	53 mm

For detailed data and description, see the datasheet. Further products can be found online at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com).

Model number	Type of installation	Detection range [mm]	Output type	Output type	Switching function	Switching frequency [Hz]	UB (min)	UB (max)	SIL	ATEX	EAC	UL
NBN3-F31K2-E8-B13-S	Cannot be flush mounted	2.5	4-wire	PNP	Normally-open (NO)	100	10	30				■
NBN3-F31K2-E8-B33-S	Cannot be flush mounted	2.5	4-wire	PNP	Normally-open (NO)	100	10	30			■	■
NBN3-F31K2-E8-B43-S	Cannot be flush mounted	2.5	4-wire	PNP	Normally-open (NO)	100	10	30			■	■
NBN3-F31K2-Z8L-B13-S	Cannot be flush mounted	2.5	2-wire	2-wire	Normally-open (NO)	100	6	30			■	■
NBN3-F31K2-Z8L-B33-S	Cannot be flush mounted	2.5	2-wire	2-wire	Normally-open (NO)	100	6	30			■	■
NBN3-F31K2M-E8-B13-S	Cannot be flush mounted	2.5	4-wire	PNP	Normally-open (NO)	100	10	30			■	■
NBN3-F31K2M-E8-B13-S-3G-3D	Cannot be flush mounted	2.5	4-wire	PNP	Normally-open (NO)	100	10	30	■			
NBN3-F31K2M-E8-B23-S	Cannot be flush mounted	2.5	4-wire	PNP	Normally-open (NO)	100	10	30			■	■
NBN3-F31K2M-E8-B33-S	Cannot be flush mounted	2.5	4-wire	PNP	Normally-open (NO)	100	10	30			■	■
NBN3-F31K2M-E8-B43-S	Cannot be flush mounted	2.5	4-wire	PNP	Normally-open (NO)	100	10	30			■	■
NBN3-F31K2M-Z8L-B13-S	Cannot be flush mounted	2.5	2-wire	2-wire	Normally-open (NO)	100	6	30			■	■
NBN3-F31K2M-Z8L-B13-S-3G-3D	Cannot be flush mounted	2.5	2-wire	2-wire	Normally-open (NO)	100	6	30			■	■
NBN3-F31K2M-Z8L-B23-S	Cannot be flush mounted	2.5	2-wire	2-wire	Normally-open (NO)	100	6	30			■	■
NBN3-F31K2M-Z8L-B33-S	Cannot be flush mounted	2.5	2-wire	2-wire	Normally-open (NO)	100	6	30			■	■
NBN3-F31K2M-Z8L-B43-S	Cannot be flush mounted	2.5	2-wire	2-wire	Normally-open (NO)	100	6	30			■	■
NCN3-F31K2-N4-B13-S	Flush mountable	3	2-wire	NAMUR	Normally-closed (NC)	3000	8.2	8.2	2	■		■
NCN3-F31K2-N4-B33-S	Flush mountable	3	2-wire	NAMUR	Normally-closed (NC)	3000	8.2	8.2	2	■		
NCN3-F31K2-N5-B13-S	Flush mountable	3	2-wire	NAMUR	Normally-closed (NC)	3000	8.2	8.2	2	■		■
NCN3-F31K2-N5-B33-S	Flush mountable	3	2-wire	NAMUR	Normally-closed (NC)	3000	8.2	8.2	2	■		■
NCN3-F31K2M-N4-B13-S	Flush mountable	3	2-wire	NAMUR	Normally-closed (NC)	3000	8.2	8.2	2	■		■
NCN3-F31K2M-N4-B23-S	Flush mountable	3	2-wire	NAMUR	Normally-closed (NC)	3000	8.2	8.2	2			■

### Highlights

- Easy to mount on standard valve actuators without the need for additional mounting aids
- Open solution with the highly visible integrated valve position indicator and translucent housing
- Flexible, modular housing design
- Tightly sealed thanks to inductive, noncontact detection of the valve position
- Optimized for outdoor use thanks to high resistance to UV, temperature, and salt water
- Versions up to SIL 2 available

### Brief Description

The F31K2 series, on the other hand, is specifically designed for uncompromising use outdoors. It combines flexibility with robustness and excellent performance, even under extreme conditions.

### Accessories

<b>BT115A</b>	Activator for F31 series
<b>BT115X</b>	Activator for F31 series
<b>BT65-F31K2-RG-EN</b>	Activator for F31K2 series
<b>BT65A</b>	Activator for F31 series
<b>BT65X</b>	Activator for F31 series
<b>SH-BT65-F31K2-01</b>	Protective cover for BT65-F31K2-RG-EN-01 activators
<b>SH-F31K2-B13</b>	Protective cover for mechanically protected assembly
<b>VMA-2+P/Z2-0,3M-PVC-V1-WY</b>	Valve connector, Form A to M12, 2+PE, LED, Z-diode, PVC cable