

Sensors for Valve Position Detection - F31K2 Series



Standard Technical Data

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

For detailed data and description, see the datasheet. Further products can be found online at 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

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