

Inductive Cylindrical Proximity Sensors in High-Temperature Version 150 °C – 250 °C

Cylindrical High-Temperature Sensors (150 °C – 250 °C)



Common Technical Data	
Special features	High temperature
Type of output	2-wire
Type of output	NAMUR
Switching element function	Normally-closed (NC)
Type of voltage	DC
Rated voltage	8.2 V
Connection type	Fixed cable
UL	■
ATEX	■
IECEX	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model Number	Mechanical Installation Conditions	Detection Range	Switching Frequency	Cable Length	Ambient Temperature (Min)	Ambient Temperature (Max)	Length L	Diameter D	EAC
NJ5-18GK-N-150-15M	flush	5 mm	500 Hz	15,000 mm	-40 °C	150 °C	47 mm	18 mm	■
NJ8-18GK-N-150-15M	nonflush	8 mm	200 Hz	15,000 mm	-40 °C	150 °C	47 mm	18 mm	■
NJ4-30GM-N-200	flush	4 mm	1000 Hz	5000 mm	0 °C	200 °C	75 mm	30 mm	
NJ4-30GM-N-200-10M	flush	4 mm	1000 Hz	10,000 mm	0 °C	200 °C	75 mm	30 mm	
NJ5-18GK-N-150	flush	5 mm	500 Hz	2000 mm	-40 °C	150 °C	47 mm	18 mm	■
NJ8-18GK-N-150	nonflush	8 mm	200 Hz	2000 mm	-40 °C	150 °C	47 mm	18 mm	■
NJ8-18GK-N-150-10M	nonflush	8 mm	200 Hz	10,000 mm	-40 °C	150 °C	47 mm	18 mm	■
NJ15-30GK-N-150	nonflush	15 mm	100 Hz	2000 mm	-25 °C	150 °C	47 mm	30 mm	

Highlights

- Established and proven solution for applications in the automotive industry
- Reliable at high temperatures up to 250 °C
- Quick and easy commissioning thanks to sensor calibration in high temperatures
- Easy-to-integrate sensor structure with an extremely slim control interface

Brief Description

The portfolio of high-temperature sensors includes versions with different cable lengths, adapted to the respective application. A further advantage is the fact that the sensing range is already calibrated in the hot zone. This eliminates a work step and makes commissioning much more straightforward and cost-effective.

Accessories	
BF 30	Mounting adapter, 30 mm

Pressure-Resistant Inductive Proximity Sensors

Pressure-Resistant Sensors



Common Technical Data

Special features	Pressure resistant
Mechanical installation conditions	flush
Type of voltage	DC
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model Number	Detection Range	Pressure Resistant up to	Type of Output	Switching Element Function	Switching Frequency	UB (Min)	UB (Max)	SIL	Connection Type	Length L	Diameter D	CCC	EAC	ATEX	IECEx
NCB1,5-12GM45-E2-D-V1	1.5 mm	500 bar	PNP	Normally-open (NO)	600 Hz	10 V	30 V		M12 connector plug	56 mm	12 mm				
NCB1,5-12GM60-E2-D-V1	1.5 mm	500 bar	PNP	Normally-open (NO)	600 Hz	10 V	30 V		M12 connector plug	69 mm	12 mm				
NCB1,5-18GM60-E2-D	1.5 mm	350 bar	PNP	Normally-open (NO)	1500 Hz	10 V	60 V		Fixed cable	57 mm	18 mm	■			
NCB1,5-12GM70-E2-D-V1	1.5 mm	500 bar	PNP	Normally-open (NO)	600 Hz	10 V	30 V		M12 connector plug	93 mm	12 mm				
NCB1,5-18GM60-E2-D-V1	1.5 mm	350 bar	PNP	Normally-open (NO)	1500 Hz	10 V	60 V		M12 connector plug	65 mm	18 mm	■			
NCB1,5-18GM60-E3-D-V1	1.5 mm	350 bar	PNP	Normally-closed (NC)	1500 Hz	10 V	60 V		M12 connector plug	65 mm	18 mm	■			
NCB3-14GM65-E2-D-V1	3 mm	500 bar	PNP	Normally-open (NO)	500 Hz	10 V	30 V		M12 connector plug	65 mm	12 mm				
NJ1,5-18GM-N-D	1.5 mm	350 bar	NAMUR	Normally-closed (NC)	400 Hz	8.2 V	8.2 V	2	Fixed cable	50 mm	18 mm		■	■	■
NJ1,5-18GM-N-D-10M	1.5 mm	350 bar	NAMUR	Normally-closed (NC)	400 Hz	8.2 V	8.2 V	2	Fixed cable	50 mm	18 mm		■	■	■
NJ1,5-18GM-N-D-V1	1.5 mm	350 bar	NAMUR	Normally-closed (NC)	400 Hz	8.2 V	8.2 V	2	M12 connector plug	35 mm	18 mm		■	■	■

Highlights

- Extremely rugged design for pressures up to 1000 bar
- Optimized portfolio that is perfectly tailored to applications in hydraulic and pneumatic cylinders
- Different sensing ranges, output and connection options guarantee optimal application solutions

Brief Description

Pressure-resistant proximity sensors are typically used in applications involving high hydraulic and pneumatic pressures to detect components within the pressure range. The required pressure resistance is achieved via a ceramic front face that is embedded in the stainless steel housing. This enables flush assembly. These special sensors are mainly used, for example, to determine the end position of pistons in hydraulic and pneumatic cylinders. Some sensors in the Pepperl+Fuchs product range are designed for operating pressures of up to 500 bar and offer reliable protection against pressure peaks of up to 1000 bar. In addition, the portfolio offers variants with different operating distances, housing designs, and output and connection options that guarantee an optimal application solution.

Accessories

V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-G-N-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 2-pin, PUR cable, blue, NAMUR
V1-W-2M-PUR	Single-ended female cordset, M12, angled A-coded, 4-pin, PUR cable, gray
V1-W-N-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 2-pin, PUR cable, blue, NAMUR

Safety Sensors Approved According to the Machinery Directive

Safety Sensors with NAMUR Output and Ex Approval



Common Technical Data	
Special features	Safety sensor
Type of output	2-wire
Type of output	NAMUR with safety function
Type of voltage	DC
Rated voltage	8.2 V
SIL	3
UL	■
ATEX	■
IECEx	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model Number	Mechanical Installation Conditions	Detection Range	Switching Element Function	Switching Frequency	Connection Type	Cable Length	Cable Material	Length L	Width W	Height H	Diameter D	EAC
NJ2-11-SN	flush	2 mm	Normally-closed (NC)	3000 Hz	Fixed cable	2000 mm	silicone	31 mm			11 mm	
NJ2-11-SN-G	flush	2 mm	Normally-closed (NC)	3000 Hz	Fixed cable	2000 mm	silicone	30 mm			14 mm	■
NJ2-11-SN-G-5M	flush	2 mm	Normally-closed (NC)	3000 Hz	Fixed cable	5000 mm	silicone	30 mm			14 mm	■
NJ2-11-SN-G-10M	flush	2 mm	Normally-closed (NC)	3000 Hz	Fixed cable	10,000 mm	silicone	30 mm			14 mm	■
NJ2-12GK-SN	flush	2 mm	Normally-closed (NC)	2000 Hz	Fixed cable	2000 mm	silicone	34 mm			12 mm	■
NJ2-12GK-SN-0,3M	flush	2 mm	Normally-closed (NC)	2000 Hz	Fixed cable	300 mm	silicone	34 mm			12 mm	
NJ2-12GK-SN-10M	flush	2 mm	Normally-closed (NC)	2000 Hz	Fixed cable	10,000 mm	silicone	34 mm			12 mm	■
NJ3-18GK-S1N	flush	3 mm	Normally-open (NO)	200 Hz	Fixed cable	2000 mm	silicone	39 mm			18 mm	■
NJ3-18GK-S1N-5M	flush	3 mm	Normally-open (NO)	200 Hz	Fixed cable	5000 mm	silicone	39 mm			18 mm	■
NJ3-18GK-S1N-10M	flush	3 mm	Normally-open (NO)	200 Hz	Fixed cable	10,000 mm	silicone	39 mm			18 mm	■
NJ4-12GK-SN	nonflush	4 mm	Normally-closed (NC)	1500 Hz	Fixed cable	2000 mm	silicone	34 mm			12 mm	■
NJ4-12GK-SN-15M	nonflush	4 mm	Normally-closed (NC)	1500 Hz	Fixed cable	15,000 mm	silicone	34 mm			12 mm	■
NJ5-18GK-SN	flush	5 mm	Normally-closed (NC)	500 Hz	Fixed cable	2000 mm	silicone	39 mm			18 mm	■
NJ5-18GK-SN-5M	flush	5 mm	Normally-closed (NC)	500 Hz	Fixed cable	5000 mm	silicone	39 mm			18 mm	■
NJ5-18GK-SN-10M	flush	5 mm	Normally-closed (NC)	500 Hz	Fixed cable	10,000 mm	silicone	39 mm			18 mm	■
NJ5-18GK-SN-15M	flush	5 mm	Normally-closed (NC)	500 Hz	Fixed cable	15,000 mm	silicone	39 mm			18 mm	■
NJ5-30GK-S1N	flush	5 mm	Normally-open (NO)	150 Hz	Fixed cable	2000 mm	silicone	40 mm			30 mm	■
NJ5-30GK-S1N-5M	flush	5 mm	Normally-open (NO)	150 Hz	Fixed cable	5000 mm	silicone	40 mm			30 mm	■
NJ5-30GK-S1N-10M	flush	5 mm	Normally-open (NO)	150 Hz	Fixed cable	10,000 mm	silicone	40 mm			30 mm	■
NJ5-30GK-S1N-15M	flush	5 mm	Normally-open (NO)	150 Hz	Fixed cable	15,000 mm	silicone	40 mm			30 mm	■
NJ6-22-SN	flush	6 mm	Normally-closed (NC)	2000 Hz	Fixed cable	2000 mm	silicone	35 mm			22 mm	
NJ6-22-SN-10M	flush	6 mm	Normally-closed (NC)	2000 Hz	Fixed cable	10,000 mm	silicone	35 mm			22 mm	
NJ6-22-SN-G	flush	6 mm	Normally-closed (NC)	2000 Hz	Fixed cable	2000 mm	silicone	35 mm			28.3 mm	
NJ6-22-SN-G-3M	flush	6 mm	Normally-closed (NC)	2000 Hz	Fixed cable	3000 mm	silicone	35 mm			28.3 mm	
NJ6-22-SN-G-10M	flush	6 mm	Normally-closed (NC)	2000 Hz	Fixed cable	10,000 mm	silicone	35 mm			28.3 mm	
NJ8-18GK-SN	nonflush	8 mm	Normally-closed (NC)	200 Hz	Fixed cable	2000 mm	silicone	39 mm			18 mm	■
NJ8-18GK-SN-10M	nonflush	8 mm	Normally-closed (NC)	200 Hz	Fixed cable	10,000 mm	silicone	39 mm			18 mm	■
NJ10-30GK-SN	flush	10 mm	Normally-closed (NC)	300 Hz	Fixed cable	2000 mm	silicone	40 mm			30 mm	■
NJ10-30GK-SN-10M	flush	10 mm	Normally-closed (NC)	300 Hz	Fixed cable	10,000 mm	silicone	40 mm			30 mm	■
NJ10-30GK-SN-15M	flush	10 mm	Normally-closed (NC)	300 Hz	Fixed cable	15,000 mm	silicone	40 mm			30 mm	■
NJ10-30GK-SN-25M	flush	10 mm	Normally-closed (NC)	300 Hz	Fixed cable	25,000 mm	silicone	40 mm			30 mm	■
NJ10-30GK-SN-40M	flush	10 mm	Normally-closed (NC)	300 Hz	Fixed cable	40,000 mm	silicone	40 mm			30 mm	■
NJ15-30GK-SN-5M	nonflush	15 mm	Normally-closed (NC)	100 Hz	Fixed cable	5000 mm	silicone	40 mm			30 mm	■
NJ15-30GK-SN-15M	nonflush	15 mm	Normally-closed (NC)	100 Hz	Fixed cable	15,000 mm	silicone	40 mm			30 mm	■
NJ15-30GK-SN-20M	nonflush	15 mm	Normally-closed (NC)	100 Hz	Fixed cable	20,000 mm	silicone	40 mm			30 mm	■
NJ15-30GK-SN	nonflush	15 mm	Normally-closed (NC)	100 Hz	Fixed cable	2000 mm	silicone	40 mm			30 mm	■
NJ40-FP-SN-P1	nonflush	40 mm	Normally-closed (NC)	100 Hz	Terminal compartment			80 mm	80 mm	40 mm		■
SJ2-SN		2 mm	Normally-closed (NC)	5000 Hz	Stranded wires	500 mm	PVC	8 mm	15 mm	13 mm		■
SJ3.5-S1N		3.5 mm	Normally-open (NO)	2500 Hz	Stranded wires	500 mm	PVC	19.5 mm	10 mm	15 mm		■
SJ3.5-SN		3.5 mm	Normally-closed (NC)	3000 Hz	Stranded wires	500 mm	PVC	19.5 mm	10 mm	15 mm		■

Inductive Cubic Proximity Sensors in Ex Version

Cubic Sensors for the Hazardous Area



Common Technical Data	
Type of voltage	DC
ATEX	■
IECEX	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model Number	Mechanical Installation Conditions	Detection Range	Type of Output	Switching Element Function	Switching Frequency	UB (Min)	UB (Max)	SIL	Connection Type	Length L	Width W	Height H	EAC	UL
NBB2-V3-E2-3G-3D	flush	2 mm	PNP	Normally-open (NO)	1000 Hz	10 V	30 V		Fixed cable	16 mm	27.8 mm	10.2 mm	■	■
NBB2-V3-Z4L-3G-3D	flush	2 mm	Two-wire	Normally-open (NO)	700 Hz	3.7 V	30 V		Fixed cable	16 mm	27.8 mm	10.2 mm	■	■
NCB2-V3-N0	flush	2 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V	2	Fixed cable	16 mm	27.8 mm	10.2 mm	■	■
NCB2-V3-N0-2M	flush	2 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V		Fixed cable	16 mm	27.8 mm	10.2 mm	■	■
NBB3-V3-Z4-3G-3D	flush	3 mm	Two-wire	Normally-open (NO)	2000 Hz	5 V	60 V		Fixed cable	16 mm	27.8 mm	10.2 mm	■	■
NBN4-V3-E2-3G-3D	nonflush	4 mm	PNP	Normally-open (NO)	500 Hz	10 V	30 V		Fixed cable	16 mm	27.8 mm	10.2 mm	■	■
NCN4-V3-N0	nonflush	4 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V	2	Fixed cable	16 mm	27.8 mm	10.2 mm	■	■
NCN4-V3-N0-V5	nonflush	4 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V		Faston connector plug	16 mm	27.8 mm	10.2 mm	■	■
NBB15-U1K-N0	flush	15 mm	NAMUR	Normally-closed (NC)	400 Hz	8.2 V	8.2 V		Terminal compartment	118 mm	40 mm	40 mm	■	■
NBB15-U2K-N0	flush	15 mm	NAMUR	Normally-closed (NC)	300 Hz	8.2 V	8.2 V		Terminal compartment	118 mm	40 mm	40 mm	■	■
NBB15-U4K-N0	flush	15 mm	NAMUR	Normally-closed (NC)	300 Hz	8.2 V	8.2 V		Terminal compartment	118 mm	40 mm	40 mm	■	■
NBB15-U4K-N0-V1	flush	15 mm	NAMUR	Normally-closed (NC)	300 Hz	8.2 V	8.2 V		M12 connector plug	118 mm	40 mm	40 mm	■	■
NBB20-U1K-N0	flush	20 mm	NAMUR	Normally-closed (NC)	250 Hz	8.2 V	8.2 V		Terminal compartment	118 mm	40 mm	40 mm	■	■
NBB20-U4K-N0	flush	20 mm	NAMUR	Normally-closed (NC)	300 Hz	8.2 V	8.2 V		Terminal compartment	118 mm	40 mm	40 mm	■	■
NBB20-U4K-N0-V1	flush	20 mm	NAMUR	Normally-closed (NC)	300 Hz	8.2 V	8.2 V		M12 connector plug	118 mm	40 mm	40 mm	■	■
NBB20-L2-A2-V1-3G-3D	flush	20 mm	PNP	complementary	440 Hz	10 V	30 V		M12 connector plug	67 mm	40 mm	40 mm	■	■
NBB20-L2-E2-V1-3G-3D	flush	20 mm	PNP	Normally-open (NO)	440 Hz	10 V	30 V		M12 connector plug	67 mm	40 mm	40 mm	■	■
NCB20-L2-N0-V1	flush	20 mm	NAMUR	Normally-closed (NC)	300 Hz	8.2 V	8.2 V	2	M12 connector plug	67 mm	40 mm	40 mm	■	■
NBN30-U1K-N0	nonflush	30 mm	NAMUR	Normally-closed (NC)	150 Hz	8.2 V	8.2 V		Terminal compartment	118 mm	40 mm	40 mm	■	■
NBN30-U4K-N0	nonflush	30 mm	NAMUR	Normally-closed (NC)	150 Hz	8.2 V	8.2 V		Terminal compartment	118 mm	40 mm	40 mm	■	■
NBN30-U4K-N0-V1	nonflush	30 mm	NAMUR	Normally-closed (NC)	150 Hz	8.2 V	8.2 V		M12 connector plug	118 mm	40 mm	40 mm	■	■
NBN40-U1K-N0	nonflush	40 mm	NAMUR	Normally-closed (NC)	100 Hz	8.2 V	8.2 V		Terminal compartment	118 mm	40 mm	40 mm	■	■
NBN40-U1K-N0-V1	nonflush	40 mm	NAMUR	Normally-closed (NC)	150 Hz	8.2 V	8.2 V		M12 connector plug	118 mm	40 mm	40 mm	■	■
NBN40-U1LK-N0	nonflush	40 mm	NAMUR	Normally-closed (NC)	100 Hz	8.2 V	8.2 V		Terminal compartment	128 mm	55 mm	55 mm	■	■
NBN40-U1LK-N0-V1	nonflush	40 mm	NAMUR	Normally-closed (NC)	100 Hz	8.2 V	8.2 V		M12 connector plug	128 mm	55 mm	55 mm	■	■
NBN40-U2K-N0	nonflush	40 mm	NAMUR	Normally-closed (NC)	150 Hz	8.2 V	8.2 V		Terminal compartment	118 mm	40 mm	40 mm	■	■
NBN40-U4K-N0	nonflush	40 mm	NAMUR	Normally-closed (NC)	150 Hz	8.2 V	8.2 V		Terminal compartment	118 mm	40 mm	40 mm	■	■
NBN40-U4K-N0-V1	nonflush	40 mm	NAMUR	Normally-closed (NC)	150 Hz	8.2 V	8.2 V		M12 connector plug	118 mm	40 mm	40 mm	■	■
NBN40-U4LK-N0	nonflush	40 mm	NAMUR	Normally-closed (NC)	100 Hz	8.2 V	8.2 V		Terminal compartment	128 mm	55 mm	55 mm	■	■
NBN40-L2-A2-V1-3G-3D	nonflush	40 mm	PNP	complementary	180 Hz	10 V	30 V		M12 connector plug	67 mm	40 mm	40 mm	■	■
NBN40-U4LK-N0-V1	nonflush	40 mm	NAMUR	Normally-closed (NC)	100 Hz	8.2 V	8.2 V		M12 connector plug	128 mm	55 mm	55 mm	■	■
NBN40-L2-E2-V1-3G-3D	nonflush	40 mm	PNP	Normally-open (NO)	180 Hz	10 V	30 V		M12 connector plug	67 mm	40 mm	40 mm	■	■
NCB40-FP-N0-P1	flush	40 mm	NAMUR	Normally-closed (NC)	80 Hz	8.2 V	8.2 V		Terminal compartment	83 mm	83 mm	40 mm	■	■
NCB40-FP-N0-P1-V1	flush	40 mm	NAMUR	Normally-closed (NC)	80 Hz	8.2 V	8.2 V		M12 connector plug	83 mm	83 mm	40 mm	■	■
NCB40-FP-N0-P4	flush	40 mm	NAMUR	Normally-closed (NC)	80 Hz	8.2 V	8.2 V		Terminal compartment	83 mm	83 mm	40 mm	■	■
NCN40-L2-N0-V1	nonflush	40 mm	NAMUR	Normally-closed (NC)	150 Hz	8.2 V	8.2 V	2	M12 connector plug	67 mm	40 mm	40 mm	■	■
NCN50-FP-N0-P4-V1	nonflush	50 mm	NAMUR	Normally-closed (NC)	80 Hz	8.2 V	8.2 V		M12 connector plug	80 mm	80 mm	40 mm	■	■
NJ1,5-F-N	nonflush	1.5 mm	NAMUR	Normally-closed (NC)	5000 Hz	8.2 V	8.2 V		Stranded wires	8 mm	8 mm	10 mm	■	■
NJ2-V3-N	flush	2 mm	NAMUR	Normally-closed (NC)	1000 Hz	8.2 V	8.2 V	2	Fixed cable	16 mm	27.8 mm	10.2 mm	■	■
NJ2-V3-N-V5	flush	2 mm	NAMUR	Normally-closed (NC)	1000 Hz	8.2 V	8.2 V	2	Faston connector plug	16 mm	27.8 mm	10.2 mm	■	■

Model Number	Mechanical Installation Conditions	Detection Range	Type of Output	Switching Element Function	Switching Frequency	UB (Min)	UB (Max)	SIL	Connection Type	Length L	Width W	Height H	EAC	UL
NJ2-V3-N-0,075M	flush	2 mm	NAMUR	Normally-closed (NC)	1000 Hz	8.2 V	8.2 V	2	Fixed cable	16 mm	27.8 mm	10.2 mm	■	■
NJ4-F-N	nonflush	4 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V		Fixed cable	53.4 mm	40 mm	17 mm		
NJ6-F-N	flush	6 mm	NAMUR	Normally-closed (NC)	5000 Hz	8.2 V	8.2 V		Fixed cable	12 mm	45 mm	30 mm	■	
NJ6-F-N-10M	flush	6 mm	NAMUR	Normally-closed (NC)	5000 Hz	8.2 V	8.2 V		Fixed cable	20 mm	45 mm	30 mm		
NJ6-F-N-5M	flush	6 mm	NAMUR	Normally-closed (NC)	5000 Hz	8.2 V	8.2 V		Fixed cable	12 mm	45 mm	30 mm	■	
NJ10-F-N	nonflush	10 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V		Fixed cable	20 mm	45 mm	30 mm	■	
NJ15-M1K-N	nonflush	15 mm	NAMUR	Normally-closed (NC)	100 Hz	8.2 V	8.2 V		Terminal compartment	91 mm	30 mm	30 mm	■	
NJ15-M1K-N-V1	nonflush	15 mm	NAMUR	Normally-closed (NC)	100 Hz	8.2 V	8.2 V		M12 connector plug	91 mm	30 mm	30 mm	■	
NJ50-FP-N-P1	nonflush	50 mm	NAMUR	Normally-closed (NC)	100 Hz	8.2 V	8.2 V		Terminal compartment	80 mm	80 mm	40 mm	■	
NJ50-FP-N-P4	nonflush	50 mm	NAMUR	Normally-closed (NC)	100 Hz	8.2 V	8.2 V		Terminal compartment	80 mm	80 mm	40 mm	■	

Highlights

- Rectangular sensors with operating distances from 1.5 mm to 50 mm
- Versions up to SIL 2 available

Brief Description

As a leader in explosion protection technology, Pepperl+Fuchs is known for its extensive experience and in-depth application expertise in this field. Our comprehensive portfolio of ideal components is a testament to this. In addition to our intrinsically safe NAMUR sensors and interface modules, we also offer numerous proximity sensors with the appropriate certification.

Accessories

KCD2-E2L	Sensor output interface terminal with lead breakage detection
MH 02-L	Mounting aid
MH 04-2057B	Mounting aid for VariKont and +U1+ sensors
MH 04-2681F	Mounting aid for VariKont, +U1+, and +U9* sensors
MHW 01	Modular mounting bracket
V1-G-N-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 2-pin, PUR cable, blue, NAMUR
V1-W-2M-PUR	Single-ended female cordset, M12, angled, A-coded, 2-pin, PUR cable, blue, NAMUR

Inductive Cylindrical Proximity Sensors in Ex Version

Cylindrical Sensors for the Hazardous Area



Common Technical Data	
Type of voltage	DC
ATEX	■
IECEx	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model Number	Mechanical Installation Conditions	Detection Range	Type of Output	Switching Element Function	Switching Frequency	UB (Min)	UB (Max)	SIL	Connection Type	Length L	Diameter D	EAC	UL
NCB1,5-6,5M25-N0	flush	1.5 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V		Fixed cable	25 mm	6.5 mm	■	■
NCB1,5-6,5M25-N0-5M	flush	1.5 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V		Fixed cable	25 mm	6.5 mm	■	■
NCB1,5-6,5M25-N0-10M	flush	1.5 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V		Fixed cable	25 mm	6.5 mm	■	■
NCB1,5-6,5M25-N0-V1	flush	1.5 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V		M12 connector plug	25 mm	6.5 mm	■	■
NCB1,5-8GM25-N0	flush	1.5 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V		Fixed cable	25 mm	8 mm	■	■
NCB1,5-8GM25-N0-5M	flush	1.5 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V		Fixed cable	25 mm	8 mm	■	■
NCB1,5-8GM25-N0-10M	flush	1.5 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V		Fixed cable	25 mm	8 mm	■	■
NCB1,5-8GM25-N0-V1	flush	1.5 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V		M12 connector plug	48.5 mm	8 mm	■	■
NBB2-12GM60-A2-3G-3D	flush	2 mm	PNP	complementary	1000 Hz	10 V	30 V		Fixed cable	60 mm	12 mm		■
NBB2-12GM40-Z0-3G-3D	flush	2 mm	Two-wire	Normally-open (NO)	1000 Hz	5 V	60 V		Fixed cable	40 mm	12 mm		■
NBB2-12GS40-Z4L-3G-3D	flush	2 mm	Two-wire	Normally-open (NO)	700 Hz	4 V	30 V		Fixed cable	40 mm	12 mm		■
NBB2-12GS40-Z4L-V1-3G-3D	flush	2 mm	Two-wire	Normally-open (NO)	700 Hz	4 V	30 V		M12 connector plug	55 mm	12 mm		■
NCB2-12GK35-N0	flush	2 mm	NAMUR	Normally-closed (NC)	1000 Hz	8.2 V	8.2 V	2	Fixed cable	35 mm	12 mm		■
NCB2-12GM35-N0	flush	2 mm	NAMUR	Normally-closed (NC)	1000 Hz	8.2 V	8.2 V	2	Fixed cable	35 mm	12 mm	■	■
NCB2-12GM35-N0-5M	flush	2 mm	NAMUR	Normally-closed (NC)	1000 Hz	8.2 V	8.2 V		Fixed cable	35 mm	12 mm	■	■
NCB2-12GM35-N0-10M	flush	2 mm	NAMUR	Normally-closed (NC)	1000 Hz	8.2 V	8.2 V		Fixed cable	35 mm	12 mm	■	■
NCB2-12GM35-N0-21M	flush	2 mm	NAMUR	Normally-closed (NC)	1000 Hz	8.2 V	8.2 V		Fixed cable	35 mm	12 mm	■	■
NCB2-12GM35-N0-V1	flush	2 mm	NAMUR	Normally-closed (NC)	1000 Hz	8.2 V	8.2 V	2	M12 connector plug	34 mm	12 mm	■	■
NCB2-12GM40-E2-3G-3D	flush	2 mm	PNP	Normally-open (NO)	2500 Hz	10 V	30 V		Fixed cable	40 mm	12 mm		■
NCB2-12GM40-E2-3G-3D-5M	flush	2 mm	PNP	Normally-open (NO)	2500 Hz	10 V	30 V		Fixed cable	40 mm	12 mm		■
NCB2-12GM40-Z0-V1-3G-3D	flush	2 mm	Two-wire	Normally-open (NO)	800 Hz	5 V	60 V		M12 connector plug	40 mm	12 mm		■
NBB4-12GM50-E2-3G-3D	flush	4 mm	PNP	Normally-open (NO)	1000 Hz	10 V	30 V		Fixed cable	50 mm	12 mm		■
NBB4-12GM50-E2-V1-3G-3D	flush	4 mm	PNP	Normally-open (NO)	1000 Hz	10 V	30 V		M12 connector plug	49 mm	12 mm		■
NBN4-12GS40-Z4L-3G-3D	nonflush	4 mm	Two-wire	Normally-open (NO)	700 Hz	4 V	30 V		Fixed cable	40 mm	12 mm		■
NBN4-12GS40-Z4L-V1-3G-3D	nonflush	4 mm	Two-wire	Normally-open (NO)	700 Hz	4 V	30 V		M12 connector plug	55 mm	12 mm		■
NCB4-12GM40-N0	flush	4 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	12 mm	■	■
NCB4-12GM40-N0-5M	flush	4 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V		Fixed cable	40 mm	12 mm	■	■
NCB4-12GM40-N0-10M	flush	4 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V		Fixed cable	40 mm	12 mm	■	■
NCB4-12GM40-N0-V1	flush	4 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	2	M12 connector plug	40 mm	12 mm	■	■
NCN4-12GK35-N0	nonflush	4 mm	NAMUR	Normally-closed (NC)	800 Hz	8.2 V	8.2 V	2	Fixed cable	35 mm	12 mm		■
NCN4-12GM35-N0	nonflush	4 mm	NAMUR	Normally-closed (NC)	800 Hz	8.2 V	8.2 V	2	Fixed cable	35 mm	12 mm	■	■
NCN4-12GM35-N0-5M	nonflush	4 mm	NAMUR	Normally-closed (NC)	800 Hz	8.2 V	8.2 V		Fixed cable	35 mm	12 mm	■	■
NCN4-12GM35-N0-10M	nonflush	4 mm	NAMUR	Normally-closed (NC)	800 Hz	8.2 V	8.2 V		Fixed cable	35 mm	12 mm	■	■
NCN4-12GM35-N0-V1	nonflush	4 mm	NAMUR	Normally-closed (NC)	800 Hz	8.2 V	8.2 V	2	M12 connector plug	40 mm	12 mm	■	■
NCN4-12GM40-E2-3G-3D	nonflush	4 mm	PNP	Normally-open (NO)	2200 Hz	10 V	30 V		Fixed cable	40 mm	12 mm		■
NCN4-12GM40-E2-V1-3G-3D	nonflush	4 mm	PNP	Normally-open (NO)	2200 Hz	10 V	30 V		M12 connector plug	52 mm	12 mm		■
NCN4-12GM40-Z0-3G-3D	nonflush	4 mm	Two-wire	Normally-open (NO)	800 Hz	5 V	60 V		Fixed cable	40 mm	12 mm		■
NBB5-18GS50-Z4L-3G-3D	flush	5 mm	Two-wire	Normally-open (NO)	500 Hz	4 V	30 V		Fixed cable	56 mm	18 mm		■
NBB5-18GS50-Z4L-V1-3G-3D	flush	5 mm	Two-wire	Normally-open (NO)	500 Hz	4 V	30 V		M12 connector plug	66 mm	18 mm		■
NCB5-18GK40-N0	flush	5 mm	NAMUR	Normally-closed (NC)	400 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	18 mm		■
NCB5-18GM40-N0	flush	5 mm	NAMUR	Normally-closed (NC)	400 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	18 mm	■	■

Model Number	Mechanical Installation Conditions	Detection Range	Type of Output	Switching Element Function	Switching Frequency	UB (Min)	UB (Max)	SIL	Connection Type	Length L	Diameter D	EAC	UL
NCB5-18GM40-N0-5M	flush	5 mm	NAMUR	Normally-closed (NC)	400 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	18 mm	■	■
NCB5-18GM40-N0-10M	flush	5 mm	NAMUR	Normally-closed (NC)	400 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	18 mm	■	■
NCB5-18GM40-N0-15M	flush	5 mm	NAMUR	Normally-closed (NC)	400 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	18 mm	■	■
NCB5-18GM40-N0-V1	flush	5 mm	NAMUR	Normally-closed (NC)	400 Hz	8.2 V	8.2 V	2	M12 connector plug	40 mm	18 mm	■	■
NCB5-18GM40-Z0-3G-3D	flush	5 mm	Two-wire	Normally-open (NO)	350 Hz	5 V	60 V		Fixed cable	40 mm	18 mm		■
NCB5-18GM40-Z0-3G-3D-10M	flush	5 mm	Two-wire	Normally-open (NO)	350 Hz	5 V	60 V		Fixed cable	40 mm	18 mm		■
NCB5-18GM40-Z1-3G-3D	flush	5 mm	Two-wire	Normally-closed (NC)	350 Hz	5 V	60 V		Fixed cable	40 mm	18 mm		■
NCB5-18GM70-N0	flush	5 mm	NAMUR	Normally-closed (NC)	1000 Hz	8.2 V	8.2 V		Fixed cable	70 mm	18 mm		■
NBB8-18GM50-E2-3G-3D	flush	8 mm	PNP	Normally-open (NO)	500 Hz	10 V	30 V		Fixed cable	50 mm	18 mm		■
NBB8-18GM50-E2-3G-3D-5M	flush	8 mm	PNP	Normally-open (NO)	500 Hz	10 V	30 V		Fixed cable	50 mm	18 mm		■
NBN8-18GS50-Z4L-3G-3D	nonflush	8 mm	Two-wire	Normally-open (NO)	500 Hz	4 V	30 V		Fixed cable	56 mm	18 mm		■
NBN8-18GS50-Z4L-V1-3G-3D	nonflush	8 mm	Two-wire	Normally-open (NO)	500 Hz	4 V	30 V		M12 connector plug	66 mm	18 mm		■
NCB8-18GM40-N0	flush	8 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	18 mm	■	■
NCB8-18GM40-N0-5M	flush	8 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V		Fixed cable	40 mm	18 mm	■	■
NCB8-18GM40-N0-10M	flush	8 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V		Fixed cable	40 mm	18 mm	■	■
NCB8-18GM70-N0-20M-V1	flush	8 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V		Fixed cable	70 mm	18 mm		■
NCB8-18GM40-N0-V1	flush	8 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	2	M12 connector plug	40 mm	18 mm	■	■
NCN8-18GK40-N0	nonflush	8 mm	NAMUR	Normally-closed (NC)	300 Hz	8.2 V	8.2 V		Fixed cable	40 mm	18 mm		■
NCN8-18GM40-N0	nonflush	8 mm	NAMUR	Normally-closed (NC)	300 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	18 mm	■	■
NCN8-18GM40-N0-5M	nonflush	8 mm	NAMUR	Normally-closed (NC)	300 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	18 mm	■	■
NCN8-18GM40-N0-10M	nonflush	8 mm	NAMUR	Normally-closed (NC)	300 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	18 mm	■	■
NCN8-18GM40-N0-V1	nonflush	8 mm	NAMUR	Normally-closed (NC)	300 Hz	8.2 V	8.2 V	2	M12 connector plug	40 mm	18 mm	■	■
NCN8-18GM40-Z0-3G-3D	nonflush	8 mm	Two-wire	Normally-open (NO)	300 Hz	5 V	60 V		Fixed cable	40 mm	18 mm		■
NCN8-18GM50-E2-3G-3D	nonflush	8 mm	PNP	Normally-open (NO)	400 Hz	10 V	60 V		Fixed cable	50 mm	18 mm		
NCN8-18GM50-E2-3G-3D-5M	nonflush	8 mm	PNP	Normally-open (NO)	400 Hz	10 V	60 V		Fixed cable	50 mm	18 mm		
NBB10-30GS50-Z4L-3G-3D	flush	10 mm	Two-wire	Normally-open (NO)	150 Hz	4 V	30 V		Fixed cable	61 mm	30 mm		■
NCB10-30GK40-N0	flush	10 mm	NAMUR	Normally-closed (NC)	200 Hz	8.2 V	8.2 V		Fixed cable	40 mm	30 mm		■
NCB10-30GM40-Z0-3G-3D	flush	10 mm	Two-wire	Normally-open (NO)	150 Hz	5 V	60 V		Fixed cable	40 mm	30 mm		■
NCB10-30GM40-Z0-V1-3G-3D	flush	10 mm	Two-wire	Normally-open (NO)	150 Hz	5 V	60 V		M12 connector plug	40 mm	30 mm		■
NCB10-30GM40-N0	flush	10 mm	NAMUR	Normally-closed (NC)	200 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	30 mm	■	■
NCB10-30GM40-N0-5M	flush	10 mm	NAMUR	Normally-closed (NC)	200 Hz	8.2 V	8.2 V		Fixed cable	40 mm	30 mm	■	■
NCB10-30GM40-N0-10M	flush	10 mm	NAMUR	Normally-closed (NC)	200 Hz	8.2 V	8.2 V		Fixed cable	40 mm	30 mm	■	■
NCB10-30GM40-N0-15M	flush	10 mm	NAMUR	Normally-closed (NC)	200 Hz	8.2 V	8.2 V		Fixed cable	40 mm	30 mm	■	■
NCB10-30GM40-N0-50M	flush	10 mm	NAMUR	Normally-closed (NC)	200 Hz	8.2 V	8.2 V		Fixed cable	40 mm	30 mm		■
NCB10-30GM40-N0-V1	flush	10 mm	NAMUR	Normally-closed (NC)	200 Hz	8.2 V	8.2 V	2	M12 connector plug	55 mm	30 mm	■	■
NCB10-30GM40-Z1-3G-3D	flush	10 mm	Two-wire	Normally-closed (NC)	150 Hz	5 V	60 V		Fixed cable	40 mm	30 mm		■
NBB15-30GM50-E2-3G-3D	flush	15 mm	PNP	Normally-open (NO)	200 Hz	10 V	30 V		Fixed cable	50 mm	30 mm		■
NBN15-30GS50-Z4L-3G-3D	nonflush	15 mm	Two-wire	Normally-open (NO)	700 Hz	4 V	30 V		Fixed cable	61 mm	30 mm		■
NCB15-30GM40-N0	semi-flush	15 mm	NAMUR	Normally-closed (NC)	450 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	30 mm	■	■
NCB15-30GM40-N0-5M	semi-flush	15 mm	NAMUR	Normally-closed (NC)	450 Hz	8.2 V	8.2 V		Fixed cable	40 mm	30 mm	■	■
NCB15-30GM40-N0-10M	semi-flush	15 mm	NAMUR	Normally-closed (NC)	450 Hz	8.2 V	8.2 V		Fixed cable	40 mm	30 mm	■	■
NCB15-30GM40-N0-V1	semi-flush	15 mm	NAMUR	Normally-closed (NC)	450 Hz	8.2 V	8.2 V	2	M12 connector plug	40 mm	30 mm	■	■
NCN15-30GM40-Z0-3G-3D	nonflush	15 mm	Two-wire	Normally-open (NO)	100 Hz	5 V	60 V		Fixed cable	40 mm	30 mm		■
NCN15-30GK40-N0	nonflush	15 mm	NAMUR	Normally-closed (NC)	150 Hz	8.2 V	8.2 V		Fixed cable	40 mm	30 mm		■
NCN15-30GM40-N0	nonflush	15 mm	NAMUR	Normally-closed (NC)	150 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	30 mm	■	■
NCN15-30GM40-N0-10M	nonflush	15 mm	NAMUR	Normally-closed (NC)	150 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	30 mm	■	■
NCN15-30GM40-N0-20M	nonflush	15 mm	NAMUR	Normally-closed (NC)	150 Hz	8.2 V	8.2 V		Fixed cable	40 mm	30 mm	■	■
NCN15-30GM40-N0-30M	nonflush	15 mm	NAMUR	Normally-closed (NC)	150 Hz	8.2 V	8.2 V		Fixed cable	40 mm	30 mm	■	■
NCN15-30GM40-N0-V1	nonflush	15 mm	NAMUR	Normally-closed (NC)	150 Hz	8.2 V	8.2 V	2	M12 connector plug	55 mm	30 mm	■	■
NJ0,8-4,5-N	flush	0.8 mm	NAMUR	Normally-closed (NC)	5000 Hz	8.2 V	8.2 V	2	Fixed cable	20 mm	4.5 mm		■
NJ0,8-5GM-N	flush	0.8 mm	NAMUR	Normally-closed (NC)	5000 Hz	8.2 V	8.2 V	2	Fixed cable	20 mm	5 mm	■	■
NJ0,8-5GM-N-5M	flush	0.8 mm	NAMUR	Normally-closed (NC)	5000 Hz	8.2 V	8.2 V	2	Fixed cable	20 mm	5 mm	■	■
NJ0,8-5GM-N-10M	flush	0.8 mm	NAMUR	Normally-closed (NC)	5000 Hz	8.2 V	8.2 V	2	Fixed cable	20 mm	5 mm	■	■
NJ1,5-6,5-N	flush	1.5 mm	NAMUR	Normally-closed (NC)	5000 Hz	8.2 V	8.2 V	2	Fixed cable	22 mm	6.5 mm	■	■
NJ1,5-6,5-N-5M	flush	1.5 mm	NAMUR	Normally-closed (NC)	5000 Hz	8.2 V	8.2 V	2	Fixed cable	22 mm	6.5 mm	■	■
NJ1,5-6,5-N-15M	flush	1.5 mm	NAMUR	Normally-closed (NC)	5000 Hz	8.2 V	8.2 V	2	Fixed cable	22 mm	6.5 mm	■	■
NJ1,5-8GM-N	flush	1.5 mm	NAMUR	Normally-closed (NC)	5000 Hz	8.2 V	8.2 V	2	Fixed cable	22 mm	8 mm	■	■
NJ1,5-8GM-N-5M	flush	1.5 mm	NAMUR	Normally-closed (NC)	5000 Hz	8.2 V	8.2 V	2	Fixed cable	22 mm	8 mm	■	■
NJ1,5-8GM-N-10M	flush	1.5 mm	NAMUR	Normally-closed (NC)	5000 Hz	8.2 V	8.2 V	2	Fixed cable	22 mm	8 mm	■	■
NJ1,5-8GM-N-V1	flush	1.5 mm	NAMUR	Normally-closed (NC)	5000 Hz	8.2 V	8.2 V	2	M12 connector plug	20 mm	8 mm	■	■
NJ1,5-18GM-N-D	flush	1.5 mm	NAMUR	Normally-closed (NC)	400 Hz	8.2 V	8.2 V	2	Fixed cable	50 mm	18 mm	■	■
NJ1,5-18GM-N-D-10M	flush	1.5 mm	NAMUR	Normally-closed (NC)	400 Hz	8.2 V	8.2 V	2	Fixed cable	50 mm	18 mm	■	■
NJ1,5-18GM-N-D-V1	flush	1.5 mm	NAMUR	Normally-closed (NC)	400 Hz	8.2 V	8.2 V	2	M12 connector plug	35 mm	18 mm	■	■
NJ2-11-N	flush	2 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2	Fixed cable	31 mm	11 mm		■

Model Number	Mechanical Installation Conditions	Detection Range	Type of Output	Switching Element Function	Switching Frequency	UB (Min)	UB (Max)	SIL	Connection Type	Length L	Diameter D	EAC	UL
NJ2-11-N-G	flush	2 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2	Fixed cable	30 mm	14 mm	■	■
NJ2-11-N-G-5M	flush	2 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2	Fixed cable	30 mm	14 mm	■	■
NJ2-11-N-G-10M	flush	2 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V		Fixed cable	30 mm	14 mm	■	■
NJ2-11-N-G-15M	flush	2 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2	Fixed cable	30 mm	14 mm	■	■
NJ2-12GK-N-25M	flush	2 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V		Fixed cable	34 mm	12 mm	■	■
NJ2-12GK-N	flush	2 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V	2	Fixed cable	35 mm	12 mm	■	■
NJ2-12GM-N-25M	flush	2 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V	2	Fixed cable	35 mm	12 mm	■	■
NJ2-12GK-N-5M	flush	2 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V	2	Fixed cable	35 mm	12 mm	■	■
NJ2-12GM-N	flush	2 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V	2	Fixed cable	35 mm	12 mm	■	■
NJ2-12GM-N-V1	flush	2 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V	2	M12 connector plug	50 mm	12 mm	■	■
NJ2-12GM-N-5M	flush	2 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V	2	Fixed cable	35 mm	12 mm	■	■
NJ2-12GM-N-10M	flush	2 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V	2	Fixed cable	35 mm	12 mm	■	■
NJ4-12GK-N	nonflush	4 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	2	Fixed cable	35 mm	12 mm	■	■
NJ4-12GK-N-5M	nonflush	4 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	2	Fixed cable	35 mm	12 mm	■	■
NJ4-12GK-N-10M	nonflush	4 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	2	Fixed cable	35 mm	12 mm	■	■
NJ4-12GK-N-35M	nonflush	4 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V		Fixed cable	34 mm	12 mm	■	■
NJ4-12GM-N-20M	nonflush	4 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	2	Fixed cable	33 mm	12 mm	■	■
NJ4-12GM-N	nonflush	4 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	2	Fixed cable	33 mm	12 mm	■	■
NJ4-12GM-N-5M	nonflush	4 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	2	Fixed cable	33 mm	12 mm	■	■
NJ4-12GM-N-10M	nonflush	4 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	2	Fixed cable	33 mm	12 mm	■	■
NJ4-12GM-N-V1	nonflush	4 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	2	M12 connector plug	50 mm	12 mm	■	■
NJ4-30GM-N-200	flush	4 mm	NAMUR	Normally-closed (NC)	1000 Hz	8.2 V	8.2 V		Fixed cable	75 mm	30 mm		■
NJ4-30GM-N-200-10M	flush	4 mm	NAMUR	Normally-closed (NC)	1000 Hz	8.2 V	8.2 V		Fixed cable	75 mm	30 mm		■
NJ5-11-N	nonflush	5 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V		Fixed cable	30 mm	11 mm		■
NJ5-11-N-15M	nonflush	5 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2	Fixed cable	30 mm	11 mm		■
NJ5-11-N-5M	nonflush	5 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2	Fixed cable	30 mm	11 mm		■
NJ5-11-N-G	nonflush	5 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2	Fixed cable	31 mm	14 mm	■	■
NJ5-11-N-G-0,5M-V1	nonflush	5 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2	Fixed cable with M12 plug	31 mm	14 mm	■	■
NJ5-11-N-G-5M	nonflush	5 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2	Fixed cable	31 mm	14 mm	■	■
NJ5-11-N-G-6M	nonflush	5 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2	Fixed cable	31 mm	14 mm	■	■
NJ5-11-N-G-10M	nonflush	5 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2	Fixed cable	31 mm	14 mm	■	■
NJ5-18GK-N	flush	5 mm	NAMUR	Normally-closed (NC)	500 Hz	8.2 V	8.2 V	2	Fixed cable	39 mm	18 mm	■	■
NJ5-18GK-N-5M	flush	5 mm	NAMUR	Normally-closed (NC)	500 Hz	8.2 V	8.2 V	2	Fixed cable	39 mm	18 mm	■	■
NJ5-18GK-N-10M	flush	5 mm	NAMUR	Normally-closed (NC)	500 Hz	8.2 V	8.2 V	2	Fixed cable	39 mm	18 mm	■	■
NJ5-18GK-N-150	flush	5 mm	NAMUR	Normally-closed (NC)	500 Hz	8.2 V	8.2 V		Fixed cable	47 mm	18 mm	■	■
NJ5-18GM-N	flush	5 mm	NAMUR	Normally-closed (NC)	500 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	18 mm	■	■
NJ5-18GM-N-5M	flush	5 mm	NAMUR	Normally-closed (NC)	500 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	18 mm	■	■
NJ5-18GM-N-10M	flush	5 mm	NAMUR	Normally-closed (NC)	500 Hz	8.2 V	8.2 V	2	Fixed cable	40 mm	18 mm	■	■
NJ5-18GM-N-V1	flush	5 mm	NAMUR	Normally-closed (NC)	500 Hz	8.2 V	8.2 V	2	M12 connector plug	50 mm	18 mm	■	■
NJ5-18GM50-E2-3G-3D	flush	5 mm	PNP	Normally-open (NO)	2000 Hz	10 V	30 V		Fixed cable	50 mm	18 mm		■
NJ5-18GM50-E2-3G-3D-5M	flush	5 mm	PNP	Normally-open (NO)	2000 Hz	10 V	30 V		Fixed cable	50 mm	18 mm		■
NJ5-18GM50-E2-V1-3G-3D	flush	5 mm	PNP	Normally-open (NO)	2000 Hz	10 V	30 V		M12 connector plug	50 mm	18 mm		■
NJ6-22-N	flush	6 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V	2	Fixed cable	35 mm	22 mm		■
NJ6-22-N-5M	flush	6 mm	NAMUR	Normally-closed (NC)	2000 Hz	8.2 V	8.2 V	2	Fixed cable	35 mm	22 mm		■

Highlights

- Cylindrical sensors with diameters between 4.5 mm and 30 mm
- Versions up to SIL 2 available

Accessories

BF 11	Mounting adapter, 11 mm
BF 12	Mounting adapter, 12 mm
BF 18	Mounting adapter, 18 mm
BF 18-F	Plastic mounting adapter, 18 mm
BF 30	Mounting adapter, 30 mm
BF 4.5	Mounting adapter, 4.5 mm
BF 40	Mounting adapter, 40 mm
BF 5	Mounting adapter, 5 mm

Brief Description

As a leader in explosion protection technology, Pepperl+Fuchs is known for its extensive experience and in-depth application expertise in this field. Our comprehensive portfolio of ideal components is a testament to this. In addition to our intrinsically safe NAMUR sensors and interface modules, we also offer numerous proximity sensors with the appropriate certification.



Inductive Ring-Shaped Proximity Sensors in Ex Version

Ring-Shaped Sensors for the Hazardous Area



Common Technical Data

Special features	Ex sensor
Type of output	2-wire
Type of output	NAMUR
Switching element function	Normally-closed (NC)
Type of voltage	DC
Rated voltage	8.2 V
Connection type	Fixed cable
Cable material	PVC
UL	■
ATEX	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

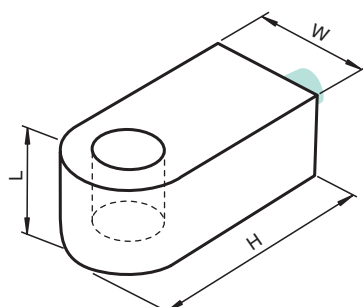
Model Number	Detection Range	Switching Frequency	Cable Length	Length L	Width W	Height H
RC10-14-N0	10 mm	2000 Hz	2000 mm	20 mm	25 mm	32.5 mm
RC10-14-N3	10 mm		2000 mm	20 mm	25 mm	32.5 mm
RC15-14-N0	15 mm	1500 Hz	2000 mm	20 mm	25 mm	32.5 mm
RC15-14-N3	15 mm		2000 mm	20 mm	25 mm	32.5 mm
RJ15-14-N	15 mm	1500 Hz	2000 mm	20 mm	25 mm	32.5 mm
RJ15-14-N-5M	15 mm	1500 Hz	5000 mm	20 mm	25 mm	32.5 mm
RJ15-N	15 mm	1500 Hz	2000 mm	25 mm	29 mm	45 mm

Highlights

- Ring-shaped sensors with a diameter of 10 mm to 15 mm

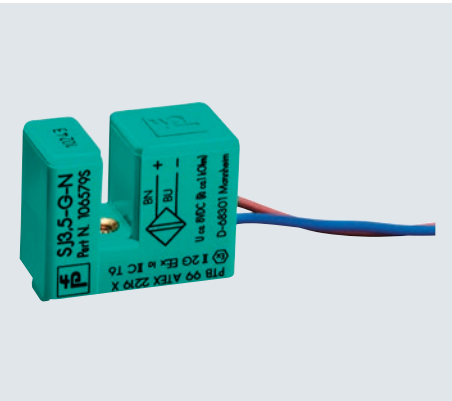
Brief Description

As a leader in explosion protection technology, Pepperl+Fuchs is known for its extensive experience and in-depth application expertise in this field. Our comprehensive portfolio of ideal components is a testament to this. In addition to our intrinsically safe NAMUR sensors and interface modules, we also offer numerous proximity sensors with the appropriate certification.



Inductive Slot-Shaped Proximity Sensors in Ex Version

Slot-Shaped Sensors for the Hazardous Area



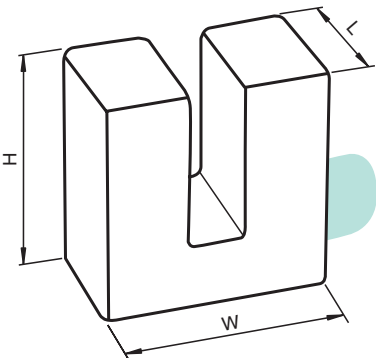
Common Technical Data	
Type of output	2-wire
Type of output	NAMUR
Switching element function	Normally-closed (NC)
Type of voltage	DC
Rated voltage	8.2 V
Cable material	PVC
UL	■
ATEX	■
IECEX	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model Number	Detection Range	Switching Frequency	SIL	Connection Type	Cable Length	Length L	Width W	Height H	EAC
SC2-N0-GN	2 mm	5000 Hz		Stranded wires	500 mm	8 mm	15 mm	13 mm	
SC2-N0-YE	2 mm	5000 Hz	2	Stranded wires	500 mm	8 mm	15 mm	13 mm	
SJ2-N	2 mm	5000 Hz	2	Stranded wires	500 mm	8 mm	8 mm	12 mm	■
SC3,5-G-N0	3.5 mm	3000 Hz	2	Stranded wires	135 mm	19.5 mm	10 mm	15 mm	■
SC3,5-G-N0-6M	3.5 mm	3000 Hz		Stranded wires	6000 mm	19.5 mm	10 mm	15 mm	■
SC3,5-N0-BU	3.5 mm	3000 Hz	2	Stranded wires	500 mm	19.5 mm	10 mm	15 mm	
SC3,5-N0-WH	3.5 mm	3000 Hz	2	Stranded wires	500 mm	19.5 mm	10 mm	15 mm	■
SC3,5-N0-YE	3.5 mm	3000 Hz	2	Stranded wires	500 mm	19.5 mm	10 mm	15 mm	■
SJ3,5-G-N	3.5 mm	3000 Hz		Stranded wires	500 mm	19.5 mm	10 mm	15 mm	
SJ3,5-N	3.5 mm	3000 Hz	2	Stranded wires	500 mm	19.5 mm	10 mm	15 mm	■
SJ3,5-N-BU	3.5 mm	3000 Hz	2	Stranded wires	500 mm	19.5 mm	10 mm	15 mm	
SJ3,5-N-GN	3.5 mm	3000 Hz		Stranded wires	500 mm	19.5 mm	10 mm	15 mm	
SJ3,5-N-YE	3.5 mm	3000 Hz		Stranded wires	500 mm	19.5 mm	10 mm	15 mm	
SJ5-G-N	5 mm	2000 Hz		Stranded wires	500 mm	15 mm	10 mm	15 mm	
SJ5-K-N	5 mm	2000 Hz		Fixed cable	2000 mm	29 mm	32 mm	31 mm	
SJ5-K-N-6M	5 mm	2000 Hz		Fixed cable	6000 mm	29 mm	32 mm	31 mm	
SJ5-N	5 mm	2000 Hz	2	Stranded wires	500 mm	15 mm	10 mm	15 mm	■
SJ10-N	10 mm	1000 Hz	2	Fixed cable	2000 mm	44 mm	55 mm	45 mm	
SJ10-N-5M	10 mm	1000 Hz		Fixed cable	5000 mm	44 mm	55 mm	45 mm	
SJ30-N	30 mm	150 Hz		Fixed cable	2000 mm	84 mm	51 mm	110 mm	

Highlights

- Slot-shaped sensors with a slot width of 2 mm to 30 mm



Brief Description

As a leader in explosion protection technology, Pepperl+Fuchs is known for its extensive experience and in-depth application expertise in this field. Our comprehensive portfolio of ideal components is a testament to this. In addition to our intrinsically safe NAMUR sensors and interface modules, we also offer numerous proximity sensors with the appropriate certification.

Inductive Positioning Systems

F90 Series



Common Technical Data

Connection type	M12 connector plug
Type of voltage	DC
Operating voltage (max)	30 V
Housing material	Plastic material
Housing width W	23 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model Number	Interface	Measuring Range	Type of Output	UB (Min)	Length L	Height H	EAC	UL	ATEX	IECEX
PMI40-F90-3EP-IO-V15	IO-Link	40 mm	3 push-pull outputs	12 V	60.3 mm	40 mm		■		
PMI40-F90-IU-IO-V15	IO-Link	40 mm	Analog current output	12 V	60.3 mm	40 mm		■		
PMI40-F90-IU2EP-IO-V15	IO-Link	40 mm	2 push-pull outputs	12 V	60.3 mm	40 mm		■		
PMI40-F90-U-V15		40 mm	Analog voltage output	12 V	60.3 mm	40 mm		■		
PMI40-F90-IU2EP-IO-V15-3G-3D	IO-Link	40 mm	2 push-pull outputs	12 V	60.3 mm	40 mm		■	■	■
PMI80-F90-3EP-IO-V15	IO-Link	80 mm	3 push-pull outputs	12 V	95.1 mm	40 mm		■		
PMI80-F90-IE8-V15		80 mm	2 PNP switching outputs	18 V	102 mm	41 mm		■		
PMI80-F90-IU-IO-V15	IO-Link	80 mm	Analog current output	12 V	95.1 mm	40 mm		■		
PMI80-F90-IU-V1		80 mm	Analog current output	18 V	102 mm	41 mm		■		
PMI80-F90-IU2EP-IO-V15	IO-Link	80 mm	2 push-pull outputs	12 V	95.1 mm	40 mm		■		
PMI80-F90-IU2EP-IO-V15-3G-3D	IO-Link	80 mm	2 push-pull outputs	12 V	95.1 mm	40 mm		■	■	■
PMI104-F90-IE8-V15		104 mm	2 PNP switching outputs	18 V	126 mm	41 mm		■		
PMI104-F90-IU-V1		104 mm	Analog current output	18 V	126 mm	41 mm	■	■		
PMI120-F90-3EP-IO-V15	IO-Link	120 mm	3 push-pull outputs	12 V	135.2 mm	40 mm		■		
PMI120-F90-IE8-V15		120 mm	2 PNP switching outputs	18 V	142 mm	41 mm		■		
PMI120-F90-IU-IO-V15	IO-Link	120 mm	Analog current output	12 V	135.2 mm	40 mm		■		
PMI120-F90-IU-V1		120 mm	Analog current output	18 V	142 mm	41 mm		■		
PMI120-F90-IU2EP-IO-V15	IO-Link	120 mm	2 push-pull outputs	12 V	135.2 mm	40 mm		■		
PMI120-F90-IU2EP-IO-V15-3G-3D	IO-Link	120 mm	2 push-pull outputs	12 V	135.2 mm	40 mm		■	■	■

Highlights

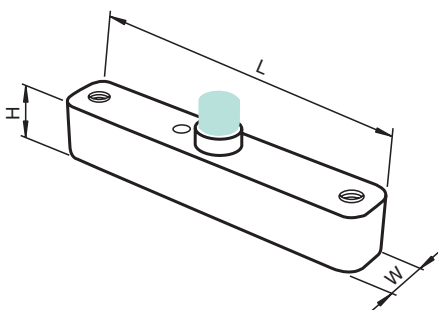
- New application possibilities thanks to IO-Link
- Measurement of the distance between two targets for solving complex applications with a single sensor
- Savings on additional sensors through simultaneous measuring and switching functions in one device
- ATEX/IECEX versions for safe use in Ex zone 2/22 (3G ec, 3D tc)

Brief Description

IO-Link, simultaneous detection of two attenuator elements, and a measuring and switching function in one device—the F90 series offers an unprecedented variety of features for use in your machine. Available in four measuring lengths (40 mm, 80 mm, 104 mm, and 120 mm), there is always a perfect solution for your application. With ATEX versions for Zone 2/22 (3G ec, 3D tc), the device can even be used in hazardous areas.

Accessories

BT-F90-G	Damping element for sensors of the F90, F112, and F166 series; front hole
BT-F90-W	Damping element for F90, F112, and F166 series sensors; side hole
ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
ICE2-8IOL-G65L-V1D	Ethernet/IP IO-Link module with 8 inputs/outputs



Dual Sensors for Valve Actuators

Dual Sensor F25 Series



Common Technical Data

Mechanical installation conditions	Flush mountable
Type of voltage	DC
Housing width W	52 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model Number	Detection Range	Type of Output	Switching Element Function	Switching Frequency	UB (Min)	UB (Max)	Connection Type	Cable Length	Cable Material	Length L	Height H	EAC	UL	ATEX	IECEx
NBN3-F25-E8-5M	3 mm	PNP	Normally-open (NO)	500 Hz	10 V	30 V	Fixed cable	5000 mm	PVC	52 mm	20 mm		■		
NBN3-F25F-E8-V1	3 mm	PNP	Normally-open (NO)	500 Hz	10 V	30 V	M12 connector plug			45 mm	20 mm		■		
NCN3-F25-N4-0,14	3 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	Fixed cable	180 mm	PVC	52 mm	20 mm		■	■	■
NCN3-F25-N4-5M	3 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	Fixed cable	5000 mm	PVC	52 mm	20 mm		■	■	■
NCN3-F25-N4-V1	3 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	M12 connector plug			52 mm	20 mm		■	■	■
NCN3-F25F-N4-V1	3 mm	NAMUR	Normally-closed (NC)	1500 Hz	8.2 V	8.2 V	M12 connector plug			45 mm	20 mm	■	■	■	■
NBN4-F25-2Z4L	4 mm	Two-wire	Normally-open (NO)	500 Hz	5 V	30 V	Fixed cable	2000 mm	PVC	52 mm	20 mm		■		
NBN4-F25-2Z4L-0,14M	4 mm	Two-wire	Normally-open (NO)	500 Hz	5 V	30 V	Fixed cable	180 mm	PVC	52 mm	20 mm		■		
NBN4-F25-2Z4L-5M	4 mm	Two-wire	Normally-open (NO)	500 Hz	5 V	30 V	Fixed cable	5000 mm	PVC	52 mm	20 mm		■		
NBN4-F25-E8	4 mm	PNP	Normally-open (NO)	1000 Hz	10 V	30 V	Fixed cable	2000 mm	PVC	52 mm	20 mm		■		
NBN4-F25-E8-0,14M	4 mm	PNP	Normally-open (NO)	1000 Hz	10 V	30 V	Fixed cable	180 mm	PVC	52 mm	20 mm		■		
NBN4-F25-2Z4L-V1	4 mm	Two-wire	Normally-open (NO)	500 Hz	5 V	30 V	M12 connector plug			52 mm	20 mm		■		
NBN4-F25-E8-V1	4 mm	PNP	Normally-open (NO)	1000 Hz	10 V	30 V	M12 connector plug			52 mm	20 mm		■		
NBN4-F25K-2E2	4 mm	PNP	Normally-open (NO)	1000 Hz	10 V	30 V	Terminal compartment			69 mm	20 mm		■		
NBN4-F25K-2Z4L	4 mm	Two-wire	Normally-open (NO)	500 Hz	5 V	30 V	Terminal compartment			69 mm	37.5 mm		■		
NBN4-F25K-E8	4 mm	PNP	Normally-open (NO)	1000 Hz	10 V	30 V	Terminal compartment			69 mm	37.5 mm		■		

Highlights

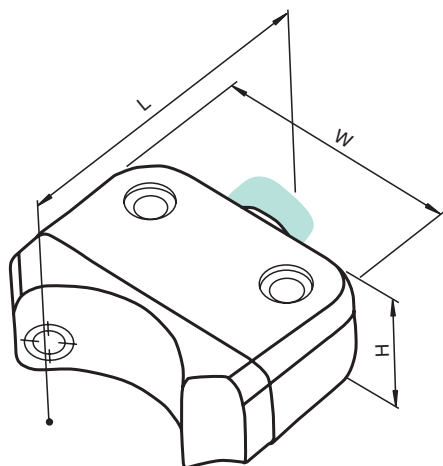
- Direct assembly on standard drives

Brief Description

The F25/F25K series is available as a cable, plug or terminal compartment variant and combines the two sensor elements in the smallest possible space. This makes them perfect for small basic applications, such as manual valves in indoor areas.

Accessories

BT32	Actuator for F25 series
BT32XAS	Actuator for F25 series
BT33	Actuator for F25 series
BT34	Actuator for F25 series
BT43-RG-01	Actuator for F25 series including protective cover and mounting base
MHV-BT-F25/F31	Adapter plate for F25/F31 dual sensors
V1-G-2M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray
V1-G-N4-5M-PUR	Single-ended female cordset, M12, straight, A-coded, 4-pin, PUR cable, gray, NAMUR



Dual Sensors for Valve Actuators

Dual Sensor F31/F31K Series



Common Technical Data

Mechanical installation conditions	Flush mountable
Detection range	3 mm
Housing width W	65 mm
UL	■

For detailed data and description, see the datasheet. Further products can be found online at www.pepperl-fuchs.com.

Model Number	Type of Output	Switching Element Function	Type of Voltage	Switching Frequency	UB (Min)	UB (Max)	SIL	Connection Type	Length L	Height H	CCC	EAC	UL	ATEX	IECEx
NBN3-F31-E8-K	PNP	Normally-open (NO)	DC	500 Hz	10 V	30 V		Fixed cable	36 mm	33.5 mm			■		
NBN3-F31-E8-K-K	PNP	Normally-open (NO)	DC	500 Hz	10 V	30 V		Fixed cable	36 mm	33.5 mm			■		
NBN3-F31-E8-V1	PNP	Normally-open (NO)	DC	500 Hz	10 V	30 V		M12 connector plug	36 mm	33.5 mm		■	■		
NBN3-F31-E8-V16-V15	PNP	Normally-open (NO)	DC	500 Hz	10 V	30 V			36 mm	33.5 mm			■		
NBN3-F31-E8-V18	PNP	Normally-open (NO)	DC	500 Hz	10 V	30 V		M18 connector plug	36 mm	33.5 mm		■	■		
NBN3-F31-U8-K		Normally-open (NO)	AC/DC	25 Hz	20 V	253 V		Fixed cable	36 mm	33.5 mm			■		
NBN3-F31-U8-V18		Normally-open (NO)	AC/DC	25 Hz	20 V	253 V		M18 connector plug	36 mm	33.5 mm			■		
NBN3-F31-Z8-K	Two-wire	Normally-open (NO)	DC	500 Hz	6 V	60 V		Fixed cable	36 mm	33.5 mm	■		■		
NBN3-F31-Z8-K-K	Two-wire	Normally-open (NO)	DC	500 Hz	6 V	60 V		Fixed cable	36 mm	33.5 mm	■		■		
NBN3-F31-Z8-V1	Two-wire	Normally-open (NO)	DC	500 Hz	6 V	60 V		M12 connector plug	36 mm	33.5 mm	■		■		
NBN3-F31-Z8-V18	Two-wire	Normally-open (NO)	DC	500 Hz	6 V	60 V		M18 connector plug	36 mm	33.5 mm	■		■		
NBN3-F31K-E8	PNP	Normally-open (NO)	DC	500 Hz	10 V	30 V		Terminal compartment	77.5 mm	35.5 mm			■		
NBN3-F31K-E8-K	PNP	Normally-open (NO)	DC	500 Hz	10 V	30 V		Terminal compartment	77.5 mm	35.5 mm			■		
NBN3-F31K-E8-V1-V1	PNP	Normally-open (NO)	DC	500 Hz	10 V	30 V		Terminal compartment	77.5 mm	35.5 mm			■		
NBN3-F31K-Z8	Two-wire	Normally-open (NO)	DC	500 Hz	6 V	60 V		Terminal compartment	77.5 mm	35 mm	■		■		
NBN3-F31K-Z8-K	Two-wire	Normally-open (NO)	DC	500 Hz	6 V	60 V		Terminal compartment	77.5 mm	35 mm	■	■	■		
NBN3-F31K-Z8-V1-V1	Two-wire	Normally-open (NO)	DC	500 Hz	6 V	60 V		Terminal compartment	77.5 mm	35 mm	■		■		
NCN3-F31-B3-V1-K	AS-Interface	Normally-open/normally-closed (selectable)	DC	100 Hz	26.5 V	31.9 V		M12 connector plug	36 mm	33.5 mm			■		
NCN3-F31-B3B-V1	AS-Interface	Normally-open/normally-closed (selectable)	DC	100 Hz	26.5 V	31.9 V		M12 connector plug	36 mm	33.5 mm			■		
NCN3-F31-B3B-V1-K	AS-Interface	Normally-open/normally-closed (selectable)	DC	100 Hz	26.5 V	31.9 V		M12 connector plug	36 mm	33.5 mm			■		
NCN3-F31-B3B-V1-V1	AS-Interface	Normally-open/normally-closed (selectable)	DC	100 Hz	26.5 V	31.9 V		M12 connector plug	36 mm	33.5 mm			■		
NCN3-F31-N4-K	NAMUR	Normally-closed (NC)	DC	3000 Hz	8.2 V	8.2 V	2	Fixed cable	36 mm	33.5 mm		■	■	■	■
NCN3-F31-N4-K-10M	NAMUR	Normally-closed (NC)	DC	3000 Hz	8.2 V	8.2 V	2	Fixed cable	36 mm	33.5 mm		■	■	■	■
NCN3-F31-N4-K-K	NAMUR	Normally-closed (NC)	DC	3000 Hz	8.2 V	8.2 V	2	Fixed cable	36 mm	33.5 mm		■	■	■	■
NCN3-F31-N4-V1	NAMUR	Normally-closed (NC)	DC	3000 Hz	8.2 V	8.2 V	2	M12 connector plug	36 mm	33.5 mm		■	■	■	■
NCN3-F31-N4-V16-K	NAMUR	Normally-closed (NC)	DC	3000 Hz	8.2 V	8.2 V	2	Other	36 mm	33.5 mm		■	■	■	■
NCN3-F31-N4-V16-V16	NAMUR	Normally-closed (NC)	DC	3000 Hz	8.2 V	8.2 V	2	Other	36 mm	33.5 mm		■	■	■	■
NCN3-F31-N4-V18	NAMUR	Normally-closed (NC)	DC	3000 Hz	8.2 V	8.2 V	2	M18 connector plug	36 mm	33.5 mm		■	■	■	■
NCN3-F31K-B3B-B31	AS-Interface	Normally-open/normally-closed (selectable)	DC	100 Hz	26.5 V	31.9 V		Terminal compartment	77.5 mm	35.5 mm		■	■		
NCN3-F31K-N4	NAMUR	Normally-closed (NC)	DC	3000 Hz	8.2 V	8.2 V	2	Terminal compartment	77.5 mm	35.5 mm		■	■	■	■
NCN3-F31K-N4-B13	NAMUR	Normally-closed (NC)	DC	3000 Hz	8.2 V	8.2 V	2	Terminal compartment	77.5 mm	35.5 mm		■	■	■	■
NCN3-F31K-N4-B13-S	NAMUR	Normally-closed (NC)	DC	3000 Hz	8.2 V	8.2 V	2	Terminal compartment	77.5 mm	35.5 mm		■	■	■	■
NCN3-F31K-N4-K	NAMUR	Normally-closed (NC)	DC	3000 Hz	8.2 V	8.2 V	2	Terminal compartment	77.5 mm	35.5 mm		■	■	■	■
NCN3-F31K-N4-K-S	NAMUR	Normally-closed (NC)	DC	3000 Hz	8.2 V	8.2 V	2	Terminal compartment	77.5 mm	35.5 mm		■	■	■	■
NCN3-F31K-N4-S	NAMUR	Normally-closed (NC)	DC	3000 Hz	8.2 V	8.2 V	2	Terminal compartment	77.5 mm	35.5 mm		■	■	■	■
NCN3-F31K-N4-V1-V1	NAMUR	Normally-closed (NC)	DC	3000 Hz	8.2 V	8.2 V	2	Terminal compartment	77.5 mm	35.5 mm		■	■	■	■
NCN3-F31K-N5-K	NAMUR	Normally-closed (NC)	DC	3000 Hz	8.2 V	8.2 V		Terminal compartment	77.5 mm	35.5 mm			■	■	■

Dual Sensors for Valve Actuators

Dual Sensor F31K2 Series



Common Technical Data	
Type of voltage	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	Mechanical Installation Conditions	Detection Range	Type of Output	Switching Element Function	Switching Frequency	UB (Min)	UB (Max)	SIL	EAC	UL	ATEX	IECEx
NBN3-F31K2-E8-B13-S	cannot be flush mounted	2.5 mm	PNP	Normally-open (NO)	100 Hz	10 V	30 V		■			
NBN3-F31K2-E8-B33-S	cannot be flush mounted	2.5 mm	PNP	Normally-open (NO)	100 Hz	10 V	30 V		■	■		
NBN3-F31K2-Z8L-B13-S	cannot be flush mounted	2.5 mm	Two-wire	Normally-open (NO)	100 Hz	6 V	30 V		■	■		
NBN3-F31K2-Z8L-B33-S	cannot be flush mounted	2.5 mm	Two-wire	Normally-open (NO)	100 Hz	6 V	30 V		■	■		
NBN3-F31K2M-E8-B13-S	cannot be flush mounted	2.5 mm	PNP	Normally-open (NO)	100 Hz	10 V	30 V		■	■		
NBN3-F31K2M-E8-B13-S-3G-3D	cannot be flush mounted	2.5 mm	PNP	Normally-open (NO)	100 Hz	10 V	30 V				■	■
NBN3-F31K2M-E8-B23-S	cannot be flush mounted	2.5 mm	PNP	Normally-open (NO)	100 Hz	10 V	30 V		■	■		
NBN3-F31K2M-E8-B23-S-3G-3D	cannot be flush mounted	2.5 mm	PNP	Normally-open (NO)	100 Hz	10 V	30 V				■	■
NBN3-F31K2M-E8-B33-S	cannot be flush mounted	2.5 mm	PNP	Normally-open (NO)	100 Hz	10 V	30 V		■	■		
NBN3-F31K2M-E8-B43-S	cannot be flush mounted	2.5 mm	PNP	Normally-open (NO)	100 Hz	10 V	30 V		■	■		
NBN3-F31K2M-Z8L-B13-S	cannot be flush mounted	2.5 mm	Two-wire	Normally-open (NO)	100 Hz	6 V	30 V		■	■		
NBN3-F31K2M-Z8L-B13-S-3G-3D	cannot be flush mounted	2.5 mm	Two-wire	Normally-open (NO)	100 Hz	6 V	30 V				■	■
NBN3-F31K2M-Z8L-B23-S	cannot be flush mounted	2.5 mm	Two-wire	Normally-open (NO)	100 Hz	6 V	30 V		■	■		
NBN3-F31K2M-Z8L-B23-S-3G-3D	cannot be flush mounted	2.5 mm	Two-wire	Normally-open (NO)	100 Hz	6 V	30 V					■
NBN3-F31K2M-Z8L-B33-S	cannot be flush mounted	2.5 mm	Two-wire	Normally-open (NO)	100 Hz	6 V	30 V		■	■		
NBN3-F31K2M-Z8L-B43-S	cannot be flush mounted	2.5 mm	Two-wire	Normally-open (NO)	100 Hz	6 V	30 V		■	■		
NCN3-F31K2-N4-B13-S	Flush mountable	3 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2		■	■	■
NCN3-F31K2-N4-B33-S	Flush mountable	3 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2		■	■	■
NCN3-F31K2-N5-B13-S	Flush mountable	3 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2		■	■	■
NCN3-F31K2-N5-B33-S	Flush mountable	3 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2		■	■	■
NCN3-F31K2M-N4-B13-S	Flush mountable	3 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	2		■	■	■
NCN3-F31K2M-N4-B23-S	Flush mountable	3 mm	NAMUR	Normally-closed (NC)	3000 Hz	8.2 V	8.2 V	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
- ATEX/IECEx versions for safe use in Ex zone 2/22 (3G ec, 3D tc) and zone 0/20 (1G ia, 1D ia)

Brief Description

The F31K2 series, on the other hand, is specifically designed for compromise-free use in the outdoor area. It combines flexibility with robustness and excellent performance, even under extreme conditions.

Accessories	
BT115A	Actuator for F31 series
BT115X	Actuator for F31 series
BT65-F31K2-RG-EN	Actuator for F31K2 series
BT65-F31K2-RG-EN-01	Actuator for F31K2 series including protective cover
BT65A	Actuator for F31 series
BT65X	Actuator for F31 series
SH-BT65-F31K2-01	Protective cover for actuator BT65-F31K2-RG-EN-01