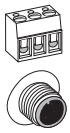


Technical Data

*For detailed data and product description refer to the data sheets at **www.pepperl-fuchs.com***

General Data	
Rated operating distance	3 mm
Switching element function	DC binary NO
Installation	flush mountable
Reverse polarity protection	tolerant
Switching frequency	0 ... 500 Hz
Operating current	4 ... 100 mA
Off-state current	0 ... 1 mA, typically 0.7 mA
Indication of the switching state	LED, yellow
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Housing material	PBT
Protection degree	IP67

Model Number		NBN3-F31K-Z8	NBN3-F31K-Z8-K	NBN3-F31K-Z8-V1-V1
Operating voltage	10 ... 30 V DC			●
	6 ... 60 V DC	●	●	
No-load supply current	≤ 25 mA			●
Short-circuit protection	pulsing			●
Operating voltage display	LED, green			●
Valve status indication	LED, yellow		●	●
Connection (system side)	Cage tension spring terminals	●	●	●
Connection (valve side)	4-pin, M12 x 1 socket			●
	Cage tension spring terminals		●	
				

Approvals and Certificates				
UL approval	cULus Listed, General Purpose	●	●	●
CSA approval	cCSAus Listed, General Purpose	●	●	●
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.			

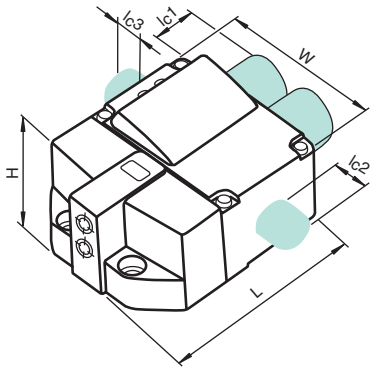
Dimensions			
Length L [mm]	77.5		
Width W [mm]	65		
Height H [mm]	35		
Connector area l_c1 [mm]	10		
Connector area l_c2 [mm]	-	10	
Connector area l_c3 [mm]		-	10

Properties

- F31K housing
- 3 mm, flush mountable
- DC, dual 2-wire switching output
- Terminal compartment
- Connector and cable gland versions

Your Benefit

- LED indicators for switching state and valve output
- Direct mounting without additional mounting aids on NAMUR bore holes 30 x 80 and 30 x 130



Accessories

This and more accessories can be found in chapter 10
See pages from 974 ... for cordsets
See pages 1074 ... for mounting aids

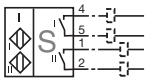
BT65A	Activator for F31 series
BT65X	Activator for F31 series
BT115A	Activator for F31 series
BT115X	Activator for F31 series
BT65B	Activator for F31 series
BT115B	Activator for F31 series
VMA-2+P/Z2-0,3M-PVC-V1-W-Y	Valve connector, Form A on M12, 2+PE, LED, Z diode, PVC cable
VMB-2+P/Z2-0,3M-PVC-V1-W-Y	Valve connector, Form B on M12, 2+PE, LED, Z diode, PUR cable
VMC-2+P/Z2-0,3M-PVC-V1-W-Y	Valve connector, model C on M12, 2 + PE, LED, zener diode, PVC cable
VMCI-2+P/Z2-0,3M-PVC-V1-W-Y	Valve connector, model C (ind) on M12, 2 + PE, LED, zener diode, PVC cable

Electrical Connection

NBN3-F31K-Z8

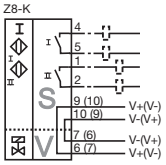


Z8



NBN3-F31K-Z8-K

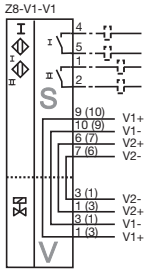
Z8-K

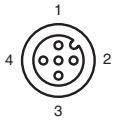


NBN3-F31K-Z8-V1-V1



Z8-V1-V1





Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)
5	GY	(gray)

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