

## **Model Number**

NBN3-F31-E8-V1

#### **Features**

- · Direct mounting on standard actuators
- · Compact and stable housing
- Fixed setting
- Satisfies machinery directive

### Accessories

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 V1-G Female connector, M12, 4-pin, field attachable V1-W Female connector, M12, 4-pin, field attachable V1-G-2M-PUR Female cordset, M12, 4-pin, PUR cable V1-W-2M-PUR Female cordset, M12, 4-pin, PUR cable

Technical Data			
General specifications			
Switching element function		F	
Rated operating distance	s <sub>n</sub>	Э	
Installation		f	
Output polarity		_ C	
Assured operating distance	sa	C	
Reduction factor r <sub>AI</sub>		(	
Reduction factor r <sub>Cu</sub>		(	
Reduction factor r <sub>304</sub>		1	
Reduction factor r <sub>St37</sub>		1	
Nominal ratings			
Operating voltage	UB	1	
Switching frequency	f	C	
Hysteresis	Н	t	
Reverse polarity protection		a	
Short-circuit protection		F	
Voltage drop	Ud	<	
Operating current	IL.	0	
Off-state current	l <sub>r</sub>	0	
No-load supply current	I <sub>0</sub>	4	
Operating voltage indicator		L	
Switching state indicator		L	
Functional safety related parameter	rs		
MTTF <sub>d</sub>		7	
Mission Time (T <sub>M</sub> )		2	
Diagnostic Coverage (DC)		(	
Ambient conditions			
Ambient temperature		-	
Mechanical specifications			
Connection (system side)		4	
Housing material		F	
Sensing face		F	
Degree of protection		I	
Compliance with standards and directives			
Standard conformity			

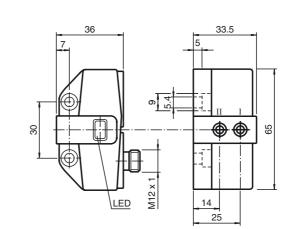
- Standard conformity Standards
- Approvals and certificates

UL approval

- CSA approval
- CCC approval
- **Dimensions**

#### PNP Dual NO 3 mm flush mountable DC 0 ... 2.43 mm 0.5 0.4 1 1.2 10 ... 30 V DC 0 ... 500 Hz typ. 5 % all connections pulsing $\leq 3 \text{ V}$ 0 ... 100 mA 0 ... 0.5 mA typ. 0.1 μA at 25 °C ≤ 25 mA LED, green LED, yellow 780 a 20 a 0 % -25 ... 70 °C (-13 ... 158 °F) 4-pin, M12 x 1 connector PBT PBT IP67

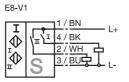
cULus Listed, General Purpose cCSAus Listed, General Purpose CCC approval / marking not required for products rated ≤36 V



EN 60947-5-2:2007

IEC 60947-5-2:2007

### **Electrical Connection**



Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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PEPPERL+FUCHS

# Pinout



Wire colors in accordance with EN 60947-5-2

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

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