







Model Number

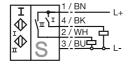
NBN3-F31-E8-V18

Features

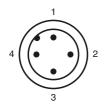
- Direct mounting on standard actuators
- Compact and stable housing
- **Fixed setting**
- Satisfies machinery directive

Connection

E8-V18



Pinout



Wire colors in accordance with EN 60947-5-2

BN	(brown
WH	(white)
BU	(blue)
BK	(black)
	BU

Accessories

BT65A

Date of issue: 2012-05-16 048259_eng.xml

2012-05-16 10:04

date:

Release

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

V18-G Subject to modifications without notice Pepperl+Fuchs Group www.pepperl-fuchs.com

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776-4411 fa-info@pepperl-fuchs.com

Copyright Pepperl+Fuchs Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

33,5 M18x1

Dual NO

0 ... 0.1 mA typ. 20 μA at 25 $^{\circ} C$

-25 ... 70 °C (-13 ... 158 °F)

≤ 25 mA

780 a

20 a 0 %

LED, green

LED, yellow

Technical Data

Dimensions

General specifications			
Switching element function		PNP	Dual NC
Rated operating distance	s _n	3 mm	
Installation		flush n	nountable
Output polarity		DC	
Assured operating distance	sa	0 2.4	3 mm
Reduction factor r _{Al}		0.5	

Reduction factor r_{Al} Reduction factor r_{Cu} Reduction factor r₃₀₄ 0.4 Reduction factor r_{St37} 1.2

Nominai ratings		
Operating voltage	U _B	10 30 V DC
Switching frequency	f	0 500 Hz
Hysteresis	Н	typ. 5 %
Reverse polarity protected		all connections
Short-circuit protection		pulsing
Voltage drop	U_d	≤ 3 V
Operating current	IL.	0 100 mA
Off-state current	l _r	0 0.1 mA typ.

No-load supply current Operating voltage display Indication of the switching state Functional safety related parameters

 MTTF_d Mission Time (T_M)
Diagnostic Coverage (DC)

Ambient conditions

Ambient temperature

Mechanical specifications Connection type

Device connector M18 x 1, 4-pin PBT Housing material Sensing face PBT Protection degree IP67

Compliance with standards and directives

Standard conformity

Standards EN 60947-5-2:2007 IEC 60947-5-2:2007

Approvals and certificates

UL approval cULus Listed, General Purpose cCSAus Listed, General Purpose CSA approval

Products with a maximum operating voltage of ≤36 V do not bear a CCC approval CCC marking because they do not require approval.