









Model Number

NBN3-F31-E8-V1

Features

- Direct mounting on standard actuators
- Compact and stable housing
- Fixed setting

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

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 function 2 x normally open (NO) Output type Rated operating distance PNP 3 mm Installation flush mountable Output polarity DC 0 ... 2.43 mm 2.7 ... 3.3 mm typ. Assured operating distance Actual operating distance Reduction factor rAI 0.5 Reduction factor r_{Cu} 0.4 Reduction factor r₃₀₄ Reduction factor r_{St37} 1.2 Output type 3-wire

Nominal ratings Operating voltage U_B Switching frequency Hysteresis Н Reverse polarity protection Short-circuit protection Voltage drop Operating current Off-state current No-load supply current I₀ Operating voltage indicator Switching state indicator Functional safety related parameters

10 ... 30 V DC 0 ... 500 Hz typ. 5 % all connections pulsing ≤3 V 0 ... 100 mA

0 ... 0.5 mA typ. 0.1 μA at 25 °C ≤ 25 mA

4-pin, M12 x 1 connector

LED, green LED, yellow

780 a Mission Time (T_M)
Diagnostic Coverage (DC) 20 a

Ambient conditions Ambient temperature

-25 ... 70 °C (-13 ... 158 °F)

Mechanical specifications Connection (system side)

Connector housing metal PBT Housing material Sensing face PBT Degree of protection IP67

Compliance with standards and

directives

Standard conformity Standards

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

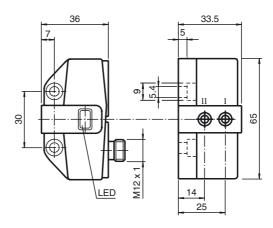
Approvals and certificates

EAC conformity TR CU 020/2011

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

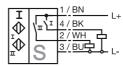
CCC approval / marking not required for products rated ≤36 V

CCC approval **Dimensions**



Electrical Connection

E8-V1



Pinout



Wire colors in accordance with EN 60947-5-2

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

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