

Model Number

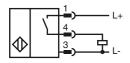
NBN8-F1-E2-V3

Features

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- 8 mm not embeddable
- 3-wire DC

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
3	BU	(blue)
4	BK	(black)

Accessories

Female connector, M8, 3-pin, field attachable

V3-GM

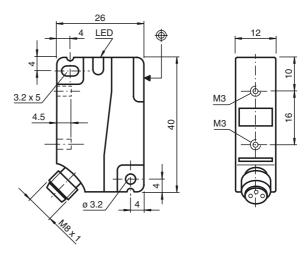
Female connector, M8, 3-pin, field attachable V3-WM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

V3-GM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

Dimensions



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General specifications		
Switching element function		PNP NO
Rated operating distance	s _n	8 mm
Installation		not embeddable
Output polarity		DC
Assured operating distance	sa	0 6.48 mm
Reduction factor r _{Al}		0.45
Reduction factor r _{Cu}		0.45
Reduction factor r ₃₀₃		0.7
Reduction factor r-		0.55

Nominal ratings

Opera	ating voltage	UB	10 30 V DC
Switc	hing frequency	f	0 1400 Hz
Hyste	eresis	Н	typ. 5%
Reve	rse polarity protected		reverse polarity protected
Short	-circuit protection		pulsing
Volta	ge drop	U _d	≤ 2.5 V
Opera	ating current	IL.	0 250 mA
Off-st	ate current	I _r	0 0.01 mA typ. 0.1 μA at 25 °C
No-lo	ad supply current	I ₀	≤ 15 mA
Indica	ation of the switching state		LED, yellow
Functional safety related parameters			
MTTF	d		1640 a
Missi	on Time (T _M)		20 a
Diagr	nostic Coverage (DC)		0 %
Ambie	nt conditions		
Ambi	ent temperature		-25 70 °C (-13 158 °F)
Mecha	nical specifications		
Conn	ection type		Device connector M8 x 1 , 3-pin

Connection type Housing material PA PA Sensing face Protection degree IP67

Tightening torque, fastening screws Threading M3 max: 1.1 Nm

Compliance with standards and directives Standard conformity

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

Approvals and certificates

Protection class Rated insulation voltage Ui 60 V

Design-impulse-voltage with stand U_{imp} 800 V UL approval cULus Listed, General Purpose

cCSAus Listed, General Purpose CSA approval CCC approval Products with a maximum operating voltage of $\leq 36 \text{ V}$ do not bear a

CCC marking because they do not require approval.

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