







Model Number

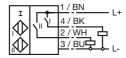
NBN3-F25-E8-V1

Features

- · For installation in housing
- · Satisfies machinery directive

Connection

E8



Pinout



Wire colors in accordance with EN 60947-5-2

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

Accessories

Activator for F25 series

BT32XS Activator for F25 series

BT32XAS

Activator for F25 series

Activator for F25 series

Activator for F25 series

V1-G

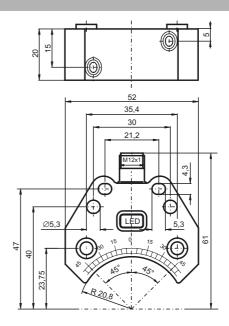
4-pin, M12 female field-attachable connector

V1-W

4-pin, M12 female field-attachable connector

V1-W-2M-PUR

Dimensions



Technical Data

General	specifi	cations

Switching element function		PNP I	Dual NO		
Rated operating distance	s _n	3 mm			
Installation		flush mor	untable		
Output polarity		DC			
Assured operating distance	sa	0 2.43	mm		
Reduction factor r _{Al}		0.5			
Reduction factor r _{Cu}		0.4			
Reduction factor r ₃₀₄		1			
Reduction factor r _{St37}		1.1			

Nominal ratings

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	Operating voltage	UB	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.	0 200 mA
	Off-state current	l _r	0 0.5 mA typ. 0.1 μA at 25 °C
	No-load supply current	I ₀	≤ 25 mA
	Operating voltage display		LED, green
	Indication of the switching state		LED, yellow

Functional safety related parameters

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MTTF _d	870 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Ambient conditions

Ambient temperature	-25 70 °C (-13 158 °F)
Storage temperature	-40 85 °C (-40 185 °F)

Mechanical specifications

Connection type	Device connector M12 x 1, 4-pin
Housing material	PBT
Sensing face	PBT
Protection degree	IP67
Tightening torque, fastening screws	M5 x 25 : 2.7 Nm
Note	Mounted on mechanical drive

Compliance with standards and directives

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Standard	conformit

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

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.