

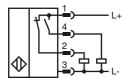
## **Model Number**

NRN75-FP-A2-P3-V1

## **Features**

- 75 mm non-flush
- Reduction factor = 1
- Magnetic field resistant

## Connection



# **Pinout**



Wire colors in accordance with EN 60947-5-2

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

## **Accessories**

4-pin, M12 female field-attachable connector

V1-W

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4-pin, M12 female field-attachable connector

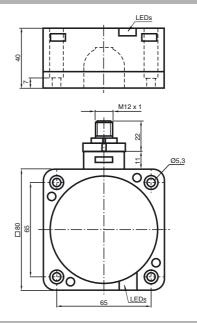
V1-G-2M-PUR

Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

## **Dimensions**



## **Technical Data**

General spe	cifications
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Switching element function		PNP	NO/NC
Rated operating distance	s <sub>n</sub>	75 mm	
Installation		non-flush	1
Output polarity		DC	
Assured operating distance	sa	0 55 m	nm
Reduction factor r <sub>Al</sub>		1	
Reduction factor r <sub>Cu</sub>		1	
Reduction factor r <sub>304</sub>		1	
Reduction factor r <sub>St37</sub>		1	

### Nominal ratings

Operating voltage	$U_B$	10 30 V DC
Switching frequency	f	0 50 Hz
Hysteresis	Н	typ. 3 %
Reverse polarity protected		reverse polarity protecte
Short-circuit protection		pulsing
Voltage drop	U <sub>d</sub>	≤ 3 V
Rated insulation voltage	U <sub>BIS</sub>	50 V
Operating current	IL .	0 200 mA
Off-state current	l <sub>r</sub>	0 0.5 mA
No-load supply current	I <sub>0</sub>	≤ 20 mA
Operating voltage display		LED, green
Indication of the switching state		LED, yellow
Functional cafety related narame	tore	

MTTF <sub>d</sub>	824
Mission Time (T <sub>M</sub> )	20 a
Diagnostic Coverage (DC)	0 %

# Ambient conditions

Ambient temperature	0 50 °C (32 122 °F) (± 10 % changing operating distance)
	-25 70 °C (-13 158 °F) (± 20 % changing operating distance)

### Mechanical specifications

Housing material PBT/metal	
Sensing face PBT	
Housing base metal	
Protection degree IP68	

## Compliance with standards and directives

Stand	ard	con	formi	t

CCC approval

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

Approvals and certificates		
Protection class		II .
Rated insulation voltage	Ui	60 V
Design-impulse-voltage withstand	U <sub>imp</sub>	800 V
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose

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Products with a maximum operating voltage of ≤36 V do not bear a

CCC marking because they do not require approval.

# **Installation hint**

These sensors are also suitable for mounting on metal. The stated switching distance is achieved with a metal base plate, min. dimensions 225 mm x 225 mm.

When mounted on a non-metallic base plate the switching distance is reduced by approx. 10%

