







### **Model Number**

### NRB15-30GS50-E2-V1

### **Features**

- Reduction factor = 1
- 15 mm flush
- Magnetic field resistant
- Stainless steel housing

### **Accessories**

BF 30

Mounting flange, 30 mm

EXG-30

Quick mounting bracket with dead stop V1-G

Female connector, M12, 4-pin, field attachable

V1-W Female connector, M12, 4-pin, field attachable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable V1-G-OR2M-POC

Female cordset, M12, 4-pin, TPE cable, welding-bead resis-

V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

General specifications				
Switching element function		PNP	NO	
Rated operating distance	s <sub>n</sub>	15 mm		
Installation		flush		
Output polarity		switched high		
Assured operating distance	s <sub>a</sub>	0 12.15 mr	n	
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> Nominal ratings		1		
•		40 0014		
Operating voltage	UB	10 30 V		
Switching frequency	f	0 750 Hz		
Hysteresis Reverse polarity protection	Н	typ. 3 %	it a proto atod	
Short-circuit protection		reverse polar pulsing	ny protected	
Voltage drop	Ud	£2 V		
Rated insulation voltage	U <sub>BIS</sub>	60 V		
Operating current	IL	0 200 mA		
Off-state current	I <sub>r</sub>		/p. 0.1 μA at 25 °C	
No-load supply current	I <sub>O</sub>	≤ 15 mA	γρ. σ. τ μ. τ ατ 2.σ. σ	
Time delay before availability	t <sub>v</sub>	≤ 20 ms		
Constant magnetic field	Ď	200 mT		
Alternating magnetic field	В	200 mT		
Switching state indicator		Multihole-LEI	D, yellow	
Functional safety related parameters				
MTTF <sub>d</sub>		1140.2 a		
Mission Time (T <sub>M</sub> )		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		Connector M	12 x 1 , 4-pin	
Housing material		Stainless stee	el 1.4305 / AISI 303	
Sensing face		PBT		
Degree of protection		IP67		
Mass		113 g		
General information				
Scope of delivery		2 self locking	nuts in scope of delivery	
Compliance with standards and di	rectives	5		
Standard conformity				
Standards		EN 60947-5-2:2007		
		EN 60947-5-2/A1:2012		
		IEC 60947-5-		
		IEC 60947-5-	2 AMD 1:2012	

# CCC approval **Dimensions**

UL approval

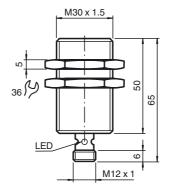
Approvals and certificates

Rated insulation voltage

Rated impulse withstand voltage

Protection class

**Technical Data** 



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Ui

 $U_{imp}$ 

60 V

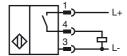
800 V

cULus Listed, Type 1 enclosure

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

Class 2 power source

## **Electrical Connection**



# **Pinout**



Wire colors in accordance with EN 60947-5-2

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

FPEPPERL+FUCHS

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