Model Number

NRB8-18GM50-E2-C-V1

Features

- Reduction factor = 1
- · Magnetic field resistant
- · Weld Immune

Accessories

BF 18

Mounting flange, 18 mm

EXG-18

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-G-OR2M-POC

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

ieciiiicai Data				
General specifications				
Switching element function		PNP	NO	
Rated operating distance	s _n	8 mm		
Installation		flush		
Output polarity		switched high		
Assured operating distance	s _a	0 6.48 n	nm	
Reduction factor r _{Al}		1		
Reduction factor r _{Cu}		1		
Reduction factor r ₃₀₄ Reduction factor r _{St37}		1		
Nominal ratings				
•	U_{R}	10 30 V	DC.	
Operating voltage Switching frequency	υ _B	0 600 H		
Hysteresis	H	typ. 5 %	2	
Reverse polarity protection			larity protected	
Short-circuit protection		pulsing	any prototicu	
Voltage drop	Ud	≤2 V		
Rated insulation voltage	U _{BIS}	60 V		
Operating current	IL	0 200 m	A	
Off-state current	l _r	0 0.5 m	A typ. 0.1 μA at 25 °C	
No-load supply current	I ₀	≤ 12 mA		
Time delay before availability	t_{v}	≤ 20 ms		
Constant magnetic field	В	200 mT		
Alternating magnetic field	В	200 mT	ED wellow	
Switching state indicator Functional safety related parameters	toro	Multinole-I	_ED, yellow	
	eters	1000 -		
MTTF _d		1393 a 20 a		
Mission Time (T _M) Diagnostic Coverage (DC)		20 a		
Ambient conditions		0 /8		
Ambient temperature		0E 70 °	C (-13 158 °F)	
Storage temperature			C (-40 185 °F)	
Mechanical specifications		+0 05	0 (40 105 1)	
Connection type		Connector	M12 x 1 , 4-pin	
Housing material		Brass, PTI		
Sensing flace		PPS	L coaled	
Degree of protection		IP67		
Mass		43 g		
General information		J		
Scope of delivery		2 self lock	ng nuts in scope of delivery	v
Compliance with standards and	directive		J	,
Standard conformity		-		
•		EN 00047	F 0.0007	
Standards		EN 60947-5-2:2007 EN 60947-5-2/A1:2012		
		IEC 60947		
			-5-2.2007 -5-2 AMD 1:2012	
Approvals and certificates		0 00047	5 1ID 1.E01E	
Approvais and certificates				

60 V

800 V

cULus Listed, General Purpose Class 2 power source

cCSAus Listed, General Purpose Class 2 power source

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

Ui

CCC approval Dimensions

Protection class

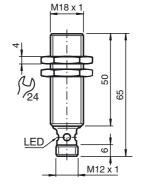
UL approval

CSA approval

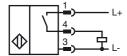
Rated insulation voltage

Rated impulse withstand voltage U_{imp}

Technical Data



Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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