Dimensions





Model Number

NBB4-12GM50-E3-V1

Features

- **Basic series** •
- 4 mm embeddable •
- Increased operating distance ٠

Connection



Pinout



Wire colors in accordance with EN 60947-5-2

800737_eng.xml	1 2 3 4	BN WH BU BK	(brown) (white) (blue) (black)		
Date of issue: 2011-07-08					
issue	Accessories				
Date of	V1-G 4-pin, M12	female field	-attachable co		

Accessories		Accessories
-------------	--	-------------

V1-G 4-pin, M12 female field-attachable connector BF 12 13:40 Mounting flange, 12 mm V1-W 2011-07-08 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 EXG-12 Quick mounting bracket with dead stop

Subject to modifications without notice Pepperl+Fuchs Group

Release date:

USA: +1 330 486 0001 www.pepperl-fuchs.com fa-info@us.pepperl-fuchs.com Germany: +49 621 776-4411 fa-info@pepperl-fuchs.com

fa-info@sg.pepperl-fuchs.com





M12x1 49 55 65 LED M12x1

Technical Data

General specifications					
Switching element function		PNP	NC		
Rated operating distance	s _n	4 mm			
Installation		embedda	able		
Output polarity		DC			
Assured operating distance	sa	0 3.24	mm		
Reduction factor r _{Al}		0.45			
Reduction factor r _{Cu}		0.35			
Reduction factor r ₃₀₃		0.7			
Nominal ratings					
Operating voltage	UB	10 30 '			
Switching frequency	f		0 800 Hz		
Hysteresis	Н		typ. 5%		
Reverse polarity protected			reverse polarity protected		
Short-circuit protection		pulsing			
Voltage drop	Ud	≤ 3 V			
Operating current	IL .	0 200			
Off-state current	l _r		nA typ. 0.1 μA at 25 °C		
No-load supply current	Ι _Ο	≤ 15 mA			
Indication of the switching state		Multihole	-LED, yellow		
Functional safety related parameters					
MTTF _d		990 a			
Mission Time (T _M)		20 a			
Diagnostic Coverage (DC)		0 %			
Ambient conditions					
Ambient temperature		-25 70	°C (-13 158 °F)		
Mechanical specifications					
Connection type		Device co	onnector M12 x 1, 4-pin		
Housing material			ckel-plated		
Sensing face		PBT			
Protection degree		IP67			
General information					
Scope of delivery		2 self loc	king nuts in scope of delivery		
Compliance with standards and d	irective	S			
Standard conformity					
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007			
Approvals and certificates					
UL approval		cULus Li	sted, General Purpose		
CSA approval			cCSAus Listed, General Purpose		
CCC approval			Products with a maximum operating voltage of \leq 36 V do not bear a CCC marking because they do not require approval.		