Inductive sensor

NBN40-U1-A2-V1



Model Number

NBN40-U1-A2-V1

Features

- Sensor head bidirectional and rotatable
- 40 mm non-flush
- 4-wire DC
- 4 LEDs indicator for 360° visibility

Accessories

MH 04-2681F Mounting aid for VariKont, +U1+ and +U9* MHW 01 Modular mounting bracket V1-G Female connector, M12, 4-pin, field attachable V1-W Female connector, M12, 4-pin, field attachable V1-G-2M-PUR Female cordset, M12, 4-pin, PUR cable V1-W-2M-PUR Female cordset, M12, 4-pin, PUR cable

Technical Data					
General specifications					
	Switching element function		PNP		
	Rated operating distance	s _n	40 mm		
	Installation		non-flus		
	Output polarity		DC		
	Assured operating distance	Sa	0 32.4		
	Reduction factor rAI	u	0.31		
	Reduction factor r _{Cu}		0.3		
	Reduction factor r ₃₀₄		0.74		
	Reduction factor r _{Brass}		0.39		
Nominal ratings					
	Operating voltage	UB	10 30		
	Switching frequency	f	0 180		
	Hysteresis	Н	typ. 5 %		
	Reverse polarity protection		reverse		
	Short-circuit protection		pulsing		
	Voltage drop	Ud	$\leq 2 V$		
	Operating current	IL.	0 200		
	Off-state current	l _r	0 0.5		
	No-load supply current	l ₀	\leq 20 mA		
	Time delay before availability	t _v	80 ms		
	Operating voltage indicator		LED, gr		
	Switching state indicator		LED, ye		
I	Functional safety related paramete	rs			
	MTTF _d		1230 a		
	Mission Time (T _M)		20 a		
	Diagnostic Coverage (DC)		0 %		
Ambient conditions					
	Ambient temperature		-25 8		
Mechanical specifications					
	Connection type		Connec		
	Housing material		PA/meta		
	Sensing face		PA		
	Housing base		plastic		
	Degree of protection		IP68 / IF		
	Mass		225 g		
	Note		Tighten		

Compliance with standards and directives

Standard conformity Standards

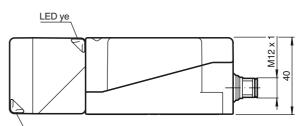
Approvals and certificates

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

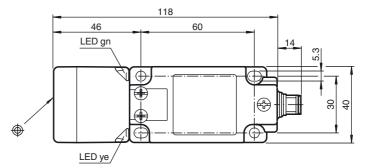
- cULus Listed, General Purpose
- CCC approval / marking not required for products rated ≤36 V

CCC approval

UL approval





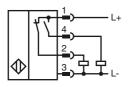


Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

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

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