

Link do produktu: <https://automatyka.mjmkielce.pl/czujnik-indukcyjny-ppf-nbn40-u1k-e2-3g-3d-pnp-40mm-p-85991.html>

## CZUJNIK INDUKCYJNY PPF NBN40-U1K-E2-3G-3D PNP 40mm

Cena	<b>668,00 zł</b>
Numer katalogowy	<b>26023</b>
Kod EAN	<b>26023</b>
Producent	<b>PEPPERL+FUCHS</b>

### Opis produktu

### Dane techniczne NBN40-U1K-E2-3G-3D

General specifications		
Switching function	Normally open (NO)	
Output type	PNP	
Rated operating distance	40 mm	
Installation	non-flush	
Output polarity	DC	
Assured operating distance	0 ... 32.4 mm	
Actual operating distance	36 ... 44 mm typ. 40 mm	
Reduction factor $r_{Al}$	0.31	
Reduction factor $r_{Cu}$	0.3	
Reduction factor $r_{304}$	0.74	
Reduction factor $r_{Brass}$	0.39	
Output type	3-wire	
Nominal ratings		
Operating voltage	10 ... 30 V DC	
Switching frequency	0 ... 150 Hz	
Hysteresis	typ. 5 %	
Reverse polarity protection	reverse polarity protected	
Short-circuit protection	pulsing	
Voltage drop	$\leq 2$ V	
Voltage drop at $I_L$		
	Voltage drop $I_L = 1$ mA, switching element on	0.5 ... 2.3 V typ. 0.9 V
	Voltage drop $I_L = 10$ mA, switching element on	0.8 ... 2.2 V typ. 1.4 V
	Voltage drop $I_L = 20$ mA, switching element on	0.9 ... 2.3 V typ. 1.5 V
	Voltage drop $I_L = 50$ mA, switching element on	0.9 ... 2.5 V typ. 1.6 V
	Voltage drop $I_L = 100$ mA, switching element on	1 ... 2.6 V typ. 1.8 V
	Voltage drop $I_L = 200$ mA, switching element on	1.2 ... 2.8 V typ. 2 V
Operating current	0 ... 200 mA	
Off-state current	0 ... 0.5 mA typ. 0.01 mA	
	Off-state current $T_U = 40$ °C, switching element off	$\leq 100$ $\mu$ A
No-load supply current	$\leq 20$ mA	
Time delay before availability	80 ms	
Operating voltage indicator	LED, green	
Switching state indicator	LED, yellow	
Functional safety related parameters		
MTTF <sub>d</sub>	1358 a	
Mission Time ( $T_M$ )	20 a	

Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity	Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
Approvals and certificates		
FM approval		hazardous (classified) location Non-incendive
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated $\leq 36$ V
Ambient conditions		
Ambient temperature		-25 ... 85 °C (-13 ... 185 °F)
Mechanical specifications		
Connection type		screw terminals
Information for connection		A maximum of two conductors with the same core cross section may be mounted on one terminal connection! tightening torque 1.2 Nm + 10 % up to 2.5 mm <sup>2</sup>
Core cross-section	Minimum core cross-section	without wire end ferrule 0.5 mm <sup>2</sup> , with connector sleeves 0.34 mm <sup>2</sup>
	Maximum core cross-section	without wire end ferrule 2.5 mm <sup>2</sup> , with connector sleeves 1.5 mm <sup>2</sup>
Housing material		PA
Sensing face		PA
Degree of protection		IP68 / IP69K
Mass		225 g
Note		Tightening torque: 1.8 Nm (housing)