



## Inductive proximity switches NJ10-30GK50-E2-5M



### Technical Data

#### General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	$s_n$	10 mm
Installation		flush
Output polarity		DC
Assured operating distance	$s_a$	0 ... 8.1 mm
Actual operating distance	$s_r$	9 ... 11 mm typ. 10 mm
Reduction factor $r_{Al}$		0.22
Reduction factor $r_{Cu}$		0.19
Reduction factor $r_{304}$		0.66
Reduction factor $r_{Brass}$		0.33

#### Nominal ratings

Operating voltage	$U_B$	10 ... 60 V
Switching frequency	$f$	0 ... 800 Hz
Hysteresis	$H$	1 ... 15 typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	$U_d$	$\leq 2.8$ V
Voltage drop at $I_L$		
Voltage drop $I_L = 10$ mA, switching element on	$U_d$	0.9 ... 2.4 V typ. 1.7 V
Voltage drop $I_L = 20$ mA, switching element on	$U_d$	0.9 ... 2.4 V typ. 1.7 V
Voltage drop $I_L = 50$ mA, switching element on	$U_d$	0.9 ... 2.5 V typ. 1.7 V
Voltage drop $I_L = 100$ mA, switching element on	$U_d$	1 ... 2.6 V typ. 1.8 V
Voltage drop $I_L = 200$ mA, switching element on	$U_d$	1.2 ... 2.8 V typ. 2 V
Operating current	$I_L$	0 ... 200 mA
Off-state current	$I_r$	0 ... 0.5 mA typ. 0.01 mA
No-load supply current	$I_0$	$\leq 9$ mA
Time delay before availability	$t_v$	$\leq 50$ ms
Switching state indicator		-

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

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## Technical Data

### Standard conformity

Standards	IEC / EN 60947-5-2:2004
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### Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-25 ... 85 °C (-13 ... 185 °F)

### Mechanical specifications

Core cross-section	0.75 mm <sup>2</sup>
Housing material	PBT
Sensing face	PBT
Degree of protection	IP68

## Connection

