



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	≤ 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	≤ 9 mA
Time delay before availability	t_v	≤ 50 ms
Switching state indicator		-

Release date: 2020-03-20 Date of issue: 2020-03-30 Filename: t2145_eng.pdf

Technical Data

Standard conformity

Standards	IEC / EN 60947-5-2:2004
-----------	-------------------------

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 ²
Housing material	PBT
Sensing face	PBT
Degree of protection	IP68

Connection

