



Model Number

NJ5-18GM50-E-5M

Technical Data

General specifications

Switching element function		NPN	NO
Rated operating distance	s_n	5 mm	
Installation		flush	
Output polarity		switched low	
Assured operating distance	s_a	0 ... 4.05 mm	
Reduction factor r_{Al}		0.2	
Reduction factor r_{Cu}		0.15	
Reduction factor r_{304}		0.62	

Nominal ratings

Installation conditions			
A		0 mm	
B		0 mm	
C		15 mm	
Operating voltage	U_B	10 ... 60 V	
Switching frequency	f	0 ... 1500 Hz	
Hysteresis	H	1 ... 15 typ. 6 %	
Reverse polarity protection		reverse polarity protected	
Short-circuit protection		pulsing	
Voltage drop	U_d	≤ 3 V	
Voltage drop at I_L			
Voltage drop $I_L = 100$ mA, switching element on U_d		1.5 ... 2.5 V typ. 1.9 V	
Operating current	I_L	0 ... 200 mA	
Lowest operating current	I_m	0 mA	
Off-state current	I_r	0 ... 0.5 mA typ. 0.01 mA	
Off-state current $T_U = 40$ °C, switching element off		≤ 100 μ A	
No-load supply current	I_0	\leq	
Time delay before availability	t_v	≤ 30 ms	
Switching state indicator		LED, yellow	

Standard conformity

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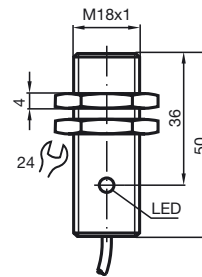
Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

Core cross-section	0.5 mm ²
Housing material	Stainless steel
Sensing face	PBT
Degree of protection	IP67

Dimensions



Electrical Connection

