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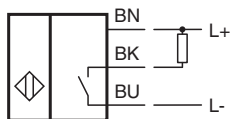
Technical drawing of the LED module (LED 1000) showing dimensions: M18 x 1, 10, 50, 4, 5, and a 24-hour symbol.

General specifications		
Switching function		Normally open (NO)
Output type		NPN
Rated operating distance	s _n	12 mm
Installation		non-flush
Output polarity		DC
Assured operating distance	s _a	0 ... 9.72 mm
Reduction factor r _{Al}		0.5
Reduction factor r _{Cu}		0.4
Reduction factor r ₃₀₄		0.7
Reduction factor r _{Brass}		0.5
Output type		3-wire
Nominal ratings		
Operating voltage	U _B	5 ... 60 V
Switching frequency	f	0 ... 1500 Hz
Hysteresis	H	type 5 %

Technical Data

Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Inductive overvoltage protection		yes
Surge suppression		yes
Voltage drop	U_d	$\leq 2 \text{ V}$
Rated insulation voltage	U_{BIS}	60 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	0 ... 0.5 mA typ. 0.1 μA at 25 °C
No-load supply current	I_0	$\leq 7 \text{ mA}$
Time delay before availability	t_v	$\leq 220 \text{ ms}$
Switching state indicator		LED, yellow
Functional safety related parameters		
MTTF _d		1085.5 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
EAC conformity		TR CU 020/2011
UL approval		cULus Listed, General Purpose, Class 2 Power Source
CSA approval		cCSAus Listed, General Purpose, Class 2 Power Source
CCC approval		Certified by China Compulsory Certification (CCC)
E1 Type approval		10R-04
Ambient conditions		
Ambient temperature		-40 ... 85 °C (-40 ... 185 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		cablE PUR , 2 m
Core cross-section		3 x 0.75 mm ²
Housing material		brass, nickel-plated
Sensing face		PBT
Degree of protection		IP68 / IP69K
Mass		132 g

Connection



Mounting

Interference immunity in accordance with
DIN ISO 11452-2: 100 V/m
Frequency band 20 MHz up to 2 GHz

Mains-borne interference in accordance with ISO 7637-2: Pulse						
	1	2a	2b	3a	3b	4 5
Severity level	III	III	III	III	III	III III
Failure criterion	C	A	C	A	A	A B

EN 61000-4-2:	CD: 8 kV / AD: 15 kV
Severity level	IV IV
EN 61000-4-3:	30 V/m (80...2500 MHz)
Severity level	IV
EN 61000-4-4:	2 kV
Severity level	III
EN 61000-4-6:	10 V (0.01...80 MHz)
Severity level	III
EN 55011:	Class A

Accessories

	BF 18	Mounting flange, 18 mm
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