

- 2 mm flush
- Extended temperature range
-40 ... +85 °C
- Extended operating voltage range
- Flexible use with versatile mounting opportunities



Technical drawing of the LED light fixture showing dimensions and components:

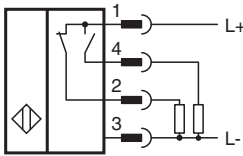
- Top mounting: M12 x 1
- Top mounting hole diameter: 4
- Top mounting hole offset: 17
- LED chip count: LED (4x)
- LED chip diameter: 8
- Bottom mounting: M12 x 1
- Overall height: 84.5
- Height to LED chips: 73
- Height to top mounting: 68.5

General specifications		
Switching function		complementary
Output type		PNP
Rated operating distance	s _n	2 mm
Installation		flush
Output polarity		DC
Assured operating distance	s _a	0 ... 1.62 mm
Actuating element		mild steel, e. g. 1.0037, SR235JR (formerly St37-2) 12 mm x 12 mm x 1 mm
Reduction factor r _{Al}		0.29
Reduction factor r _{Cu}		0.23
Reduction factor r ₃₀₄		0.78
Reduction factor r _{Brass}		0.42
Output type		4-wire
Nominal ratings		
Operating voltage	U _B	5 ... 36 V
Switching frequency	f	0 ... 3500 Hz

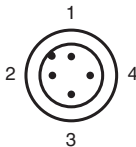
Technical Data

Hysteresis	H	typ. 5 %
Reverse polarity protection		reverse polarity protected
Short-circuit protection		pulsing
Voltage drop	U_d	$\leq 1 \text{ V}$
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	max. 20 μA
No-load supply current	I_0	$\leq 15 \text{ mA}$
Time delay before availability	t_v	$\leq 10 \text{ ms}$
Switching state indicator		Multihole-LED, yellow
Functional safety related parameters		
MTTF _d		1255 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Conformity		
PWIS conformity		VDMA 24364-A1/B2/C1/T100°C-W
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
Protection class		II
Rated insulation voltage	U_i	36 V
Rated impulse withstand voltage	U_{imp}	500 V
UL approval		cULus Listed, General Purpose, Class 2 Power Source
CCC approval		CCC approval / marking not required for products rated $\leq 36 \text{ V}$
Marine approval		DNVGL TAA00003AK
Ambient conditions		
Ambient temperature		-40 ... 85 °C (-40 ... 185 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Connection type		Connector plug
Housing material		brass , white bronze coated
Sensing face		PBT , green
Degree of protection		IP65 / IP66 / IP67 / IP68
Connector		
Threading		M12 x 1
Number of pins		4
Mass		29 g
Dimensions		
Length		82.5 mm
Diameter		12 mm
Mounting		with nuts, M12
Tightening torque		0 ... 10 Nm
General information		
Scope of delivery		2 self locking nuts in scope of delivery

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)