

- 6 mm flush
- Active surface metal
- One-piece housing with stainless steel (V4A; 1.4435)



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

- Top mounting hole: M12 x 1
- Top mounting hole spacing: 41
- Top mounting hole diameter: $\varnothing 10.5$
- LED chip spacing: 49
- LED chip diameter: 17
- LED chip quantity: 4x
- LED chip diameter: $\varnothing 10.5$
- LED chip spacing: 8
- LED chip diameter: M12 x 1
- LED chip diameter: 60

General specifications

Switching function		Normally open (NO)
Output type		PNP
Rated operating distance	s _n	6 mm
Installation		flush in mild steel
Output polarity		DC
Assured operating distance	s _a	0 ... 4.86 mm
Reduction factor r _{Al}		1
Reduction factor r _{Cu}		0.85
Reduction factor r ₃₀₄		0.5 (0.9 of material thickness 2 mm)
Reduction factor r _{St37}		1
Output type		3-wire
Nominal ratings		
Installation conditions		
A		0 mm
B		6 mm
C		18 mm

Release date: 2024-05-28 Date of issue: 2024-06-04 Filename: 288261_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

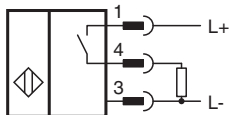
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com



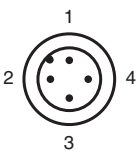
Technical Data

F		50 mm
Operating voltage	U_B	10 ... 30 V
Switching frequency	f	0 ... 600 Hz
Hysteresis	H	3 ... 15 typ. 5 %
Reverse polarity protection		yes
Short-circuit protection		yes
Voltage drop	U_d	≤ 2 V
Operating current	I_L	0 ... 200 mA
Off-state current	I_r	≤ 0.1 mA
No-load supply current	I_0	≤ 10 mA
Time delay before availability	t_v	≤ 40 ms
Switching state indicator		LED, yellow
Limit data		
Operating pressure statically		80 bar (1160.3 psi) max.
Functional safety related parameters		
MTTF _d		652 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
Standards		EN IEC 60947-5-2
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CCC approval		CCC approval / marking not required for products rated ≤ 36 V
Ambient conditions		
Ambient temperature		-25 ... 85 °C (-13 ... 185 °F)
Mechanical specifications		
Connection type		Connector plug M12 x 1 , 4-pin
Housing material		Stainless steel 1.4435 / AISI 316L
Sensing face		Stainless steel 1.4435 / AISI 316L
Degree of protection		IP68 / IP69K
Mass		24 g
Dimensions		
Length		60 mm
Diameter		12 mm

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

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

Installation

