

1) 2) PL80A 3) Average service life of 100,000 h at  $T_A = +25\text{ °C}$

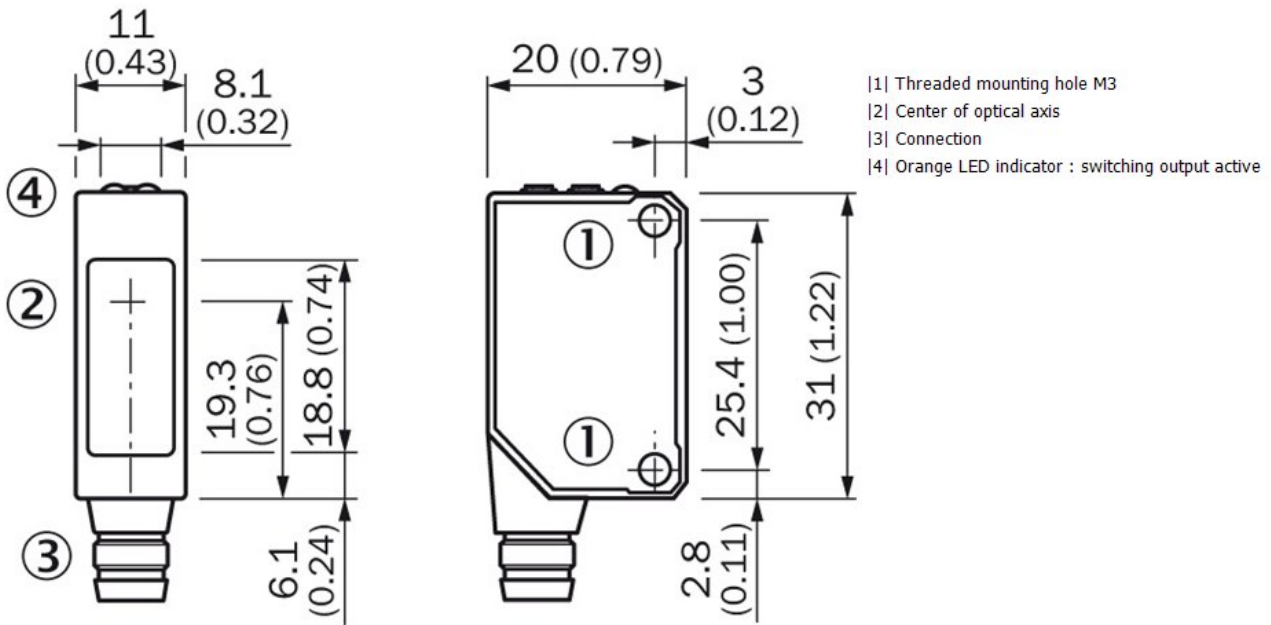
## Mechanics/electronics

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Supply voltage:	10 V DC ... 30 V DC <sup>1)</sup>
Ripple:	$\pm 10\%$ <sup>2)</sup>
Power consumption:	$\leq 30\text{ mA}$ <sup>3)</sup>
Switching output:	PNP
Switching output:	Light/dark-switching
Output characteristic:	Open collector
Switching mode selector:	Manually selectable
Signal voltage PNP HIGH/LOW:	Approx. $V_S - 1.8\text{ V}/0\text{ V}$
Output current $I_{max.}$ :	100
Response time:	$\leq 0.5\text{ ms}$ <sup>4)</sup>
Switching frequency:	1,000 <sup>5)</sup>
Attenuation along light beam:	$\leq 20\%$
Connection type:	Connector M8, 4-pin
Circuit protection:::	A, B, D <sup>6) 7) 8)</sup>
Weight:	10 g
Polarisation filter:	✓
Front screen heating:	-
AS-Interface-Chip:	-
Housing material:	ABS, Plastic
Optics material:	PMMA
Enclosure rating:	IP 67
Items supplied:	Stainless steel mounting bracket (1.4301/304) BEF-W100-A, Reflector P250F
Special feature:	For transparent objects
Ambient operating temperature:	$-25\text{ °C} \dots 55\text{ °C}$
Ambient storage temperature:	$-40\text{ °C} \dots 70\text{ °C}$

1) Limit values, operation in short-circuit protected network max. 8 A 2) May not exceed or fall short of  $V_S$  tolerances 3) Without load 4) Signal transit time with resistive load 5) With light/dark ratio 1:1 6) A =  $V_S$  connections reverse-polarity protected 7) B = inputs and output reverse-polarity protected 8) D = outputs overcurrent and short-circuit protected

**Dimensional drawing**



**Adjustments possible**

