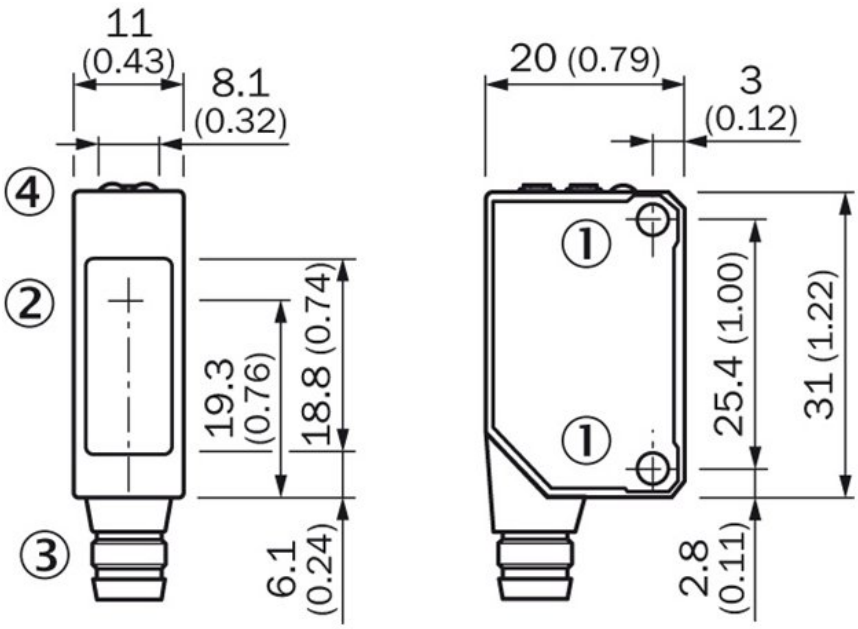
[1] [2] PL80A [3] Average service life of 100,000 h at T_A = +25 °C

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC [1]
Ripple:	± 10 % [2]
Power consumption:	≤ 30 mA [3]
Switching output:	NPN
Switching output:	Light/dark-switching
Output characteristic:	Open collector
Switching mode selector:	Manually selectable
Signal voltage NPN HIGH/LOW:	Approx. VS/< 1.8 V
Output current Imax.:	≤ 100 mA
Response time:	≤ 0.5 ms [4]
Switching frequency:	1,000 Hz [5]
Attenuation along light beam:	≤ 20 %
Connection type:	Cable, 3-wire, 2 m [6]
Cable material:	PVC
Circuit protection:::	A, B, D [7] [8] [9]
Weight:	50 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 °C ... 55 °C
Ambient storage temperature:	-40 °C ... 70 °C

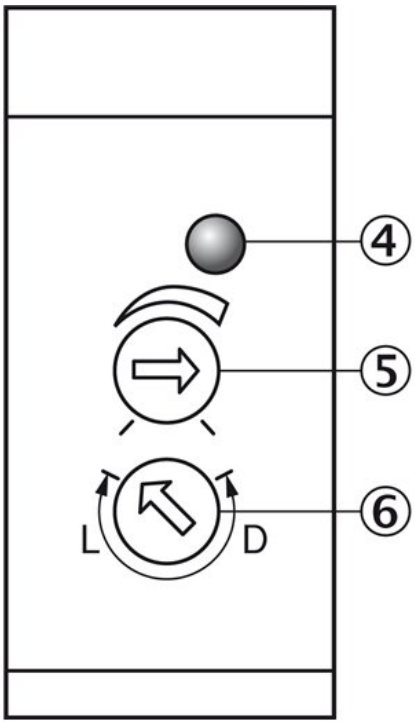
[1] Limit values, operation in short-circuit protected network max. 8 A [2] May not exceed or fall short of V_S tolerances [3] Without load [4] Signal transit time with resistive load [5] With light/dark ratio 1:1 [6] Do not bend below 0 °C [7] A = V_S connections reverse-polarity protected [8] B = inputs and output reverse-polarity protected [9] D = outputs overcurrent and short-circuit protected

Dimensional drawing



|1| Threaded mounting hole M3
|2| Center of optical axis
|3| Connection
|4| Orange LED indicator : switching output active

Adjustments possible



|4| Orange LED indicator : switching output active
|5| Sensitivity adjustment
|6| Light/ dark rotary switch L =
light switching, D = dark switching