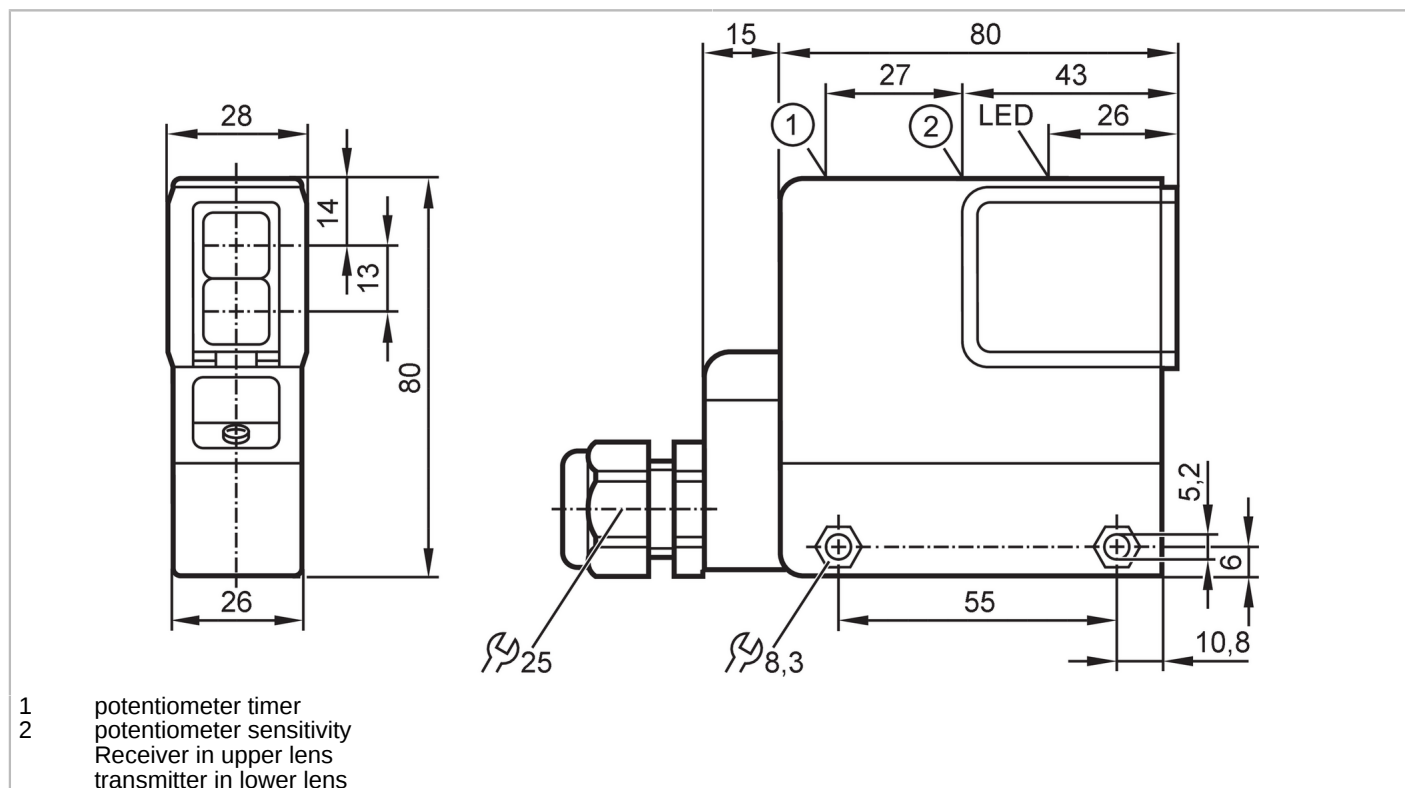




Diffuse reflection sensor

OST-FBOA



Product characteristics

Type of light	Infrared light
Housing	rectangular

Application

Function principle	Diffuse reflection sensor
Application	Industrial applications

Electrical data

Operating voltage	[V]	20...250 AC/DC
Protection class		II
Reverse polarity protection		no
Type of light		Infrared light
Wave length	[nm]	880

Outputs

Output function		light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC	[V]	10.5
Max. voltage drop switching output AC	[V]	10.5
Minimum load current	[mA]	15
Max. leakage current	[mA]	6
Permanent current rating of switching output AC	[mA]	250; (350 (...50 °C))
Permanent current rating of switching output DC	[mA]	250; (350 (...50 °C))



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Short-time current rating of switching output	[mA]	2200; (10 ms / 0,5 Hz)
Switching frequency AC	[Hz]	25
Switching frequency DC	[Hz]	25
Short-circuit proof		no
Overload protection		no
Monitoring range		
Range	[mm]	< 1000; (white paper 200 x 200 mm)
Range adjustable		yes
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	302
Mechanical data		
Weight	[g]	277
Housing		rectangular
Dimensions	[mm]	80 x 28 x 95
Material		housing: PPO modified
Lens material		front lens:glass
Lens alignment		Side sensing
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Electrical connection		
Required protection		miniature fuse to IEC60127-2 sheet 1; ≤ 2 A; fast acting
Accessories		
Items supplied		Angle bracket: 1, E20210
		screwdrivers
Remarks		
Remarks		Recommendation: check the unit for reliable function after a short circuit.
Pack quantity		1 pcs.

Diffuse reflection sensor

OST-FBOA

Electrical connection

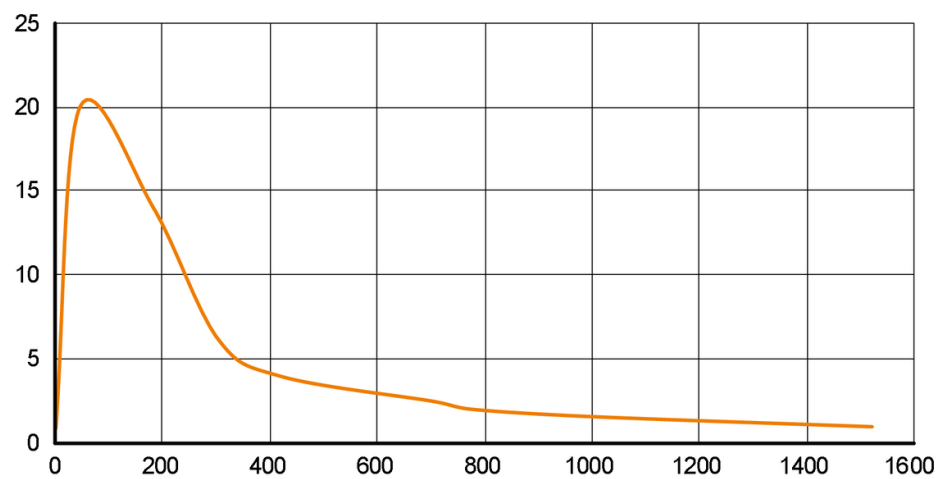
terminals: ...1.5 mm²; Cable gland: M20 X 1.5

Connection

Note : miniature fuse to IEC60127-2 sheet 1 $\leq$ 2 A fast acting

Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor