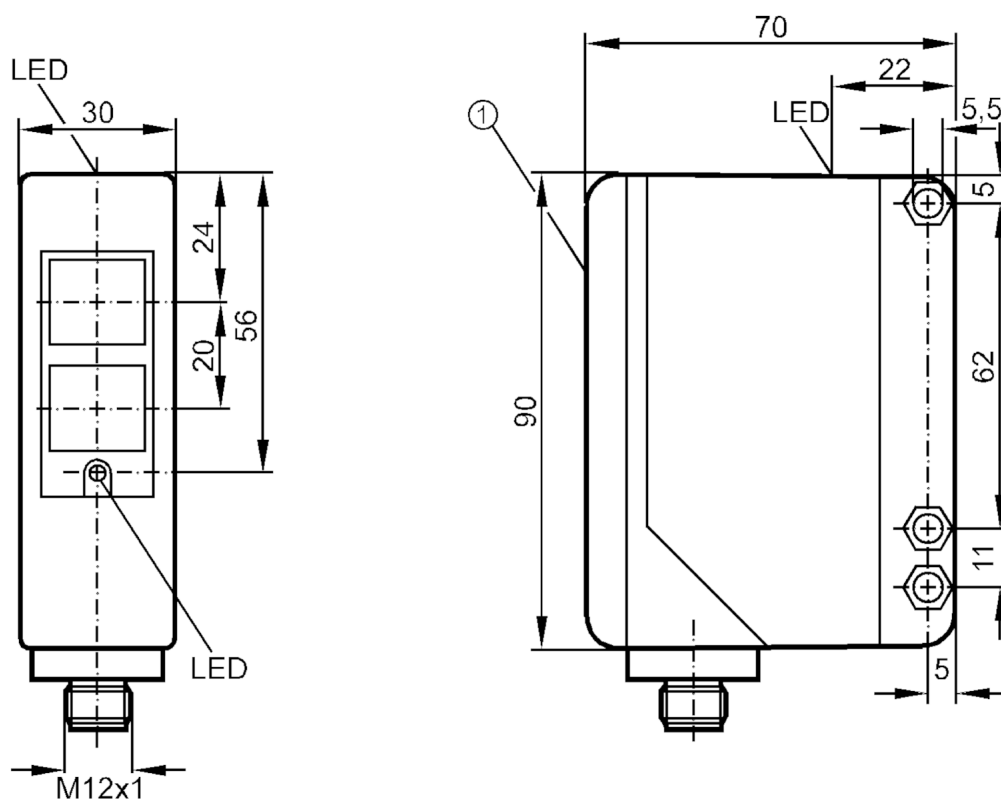


OA5120

Diffuse reflection sensor

OAT-FPKG/US



- 1 selection switch and potentiometer under cover
receiver in upper lens
transmitter in lower lens



Application

Function principle Diffuse reflection sensor

Electrical data

Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 50
Protection class		II
Reverse polarity protection		yes
Type of light		infrared light
Wave length	[nm]	880

OA5120



Diffuse reflection sensor

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Outputs		
Electrical design	PNP	
Output function	light-on/dark-on mode; (programmable)	
Function check output	yes	
Max. current load for function check output [mA]	10	
Permanent current rating of switching output DC [mA]	250	
Max. current load in dual output mode [mA]	100	
Switching frequency DC [Hz]	300	
Short-circuit protection	yes	
Type of short-circuit protection	pulsed	
Overload protection	yes	
Detection zone		
Range [mm]	5...1500; (white paper 200 x 200 mm)	
Range adjustable	yes	
Operating conditions		
Ambient temperature [°C]	-25...60	
Protection	IP 65	
Tests / approvals		
EMC	EN 60947-5-2	class B
	EN 55011	
MTTF [years]	402	
Mechanical data		
Weight [g]	294.8	
Housing	rectangular	
Dimensions [mm]	90 x 30 x 70	
Materials	PPO modified	
Lens material	PMMA	
Lens alignment	side lens	
Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
	function	1 x LED, red
Accessories		
Accessories (supplied)	Angle bracket screwdrivers	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12		

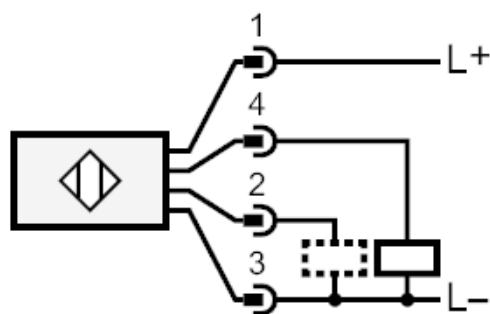
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Diffuse reflection sensor

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Connection



2

Function check output