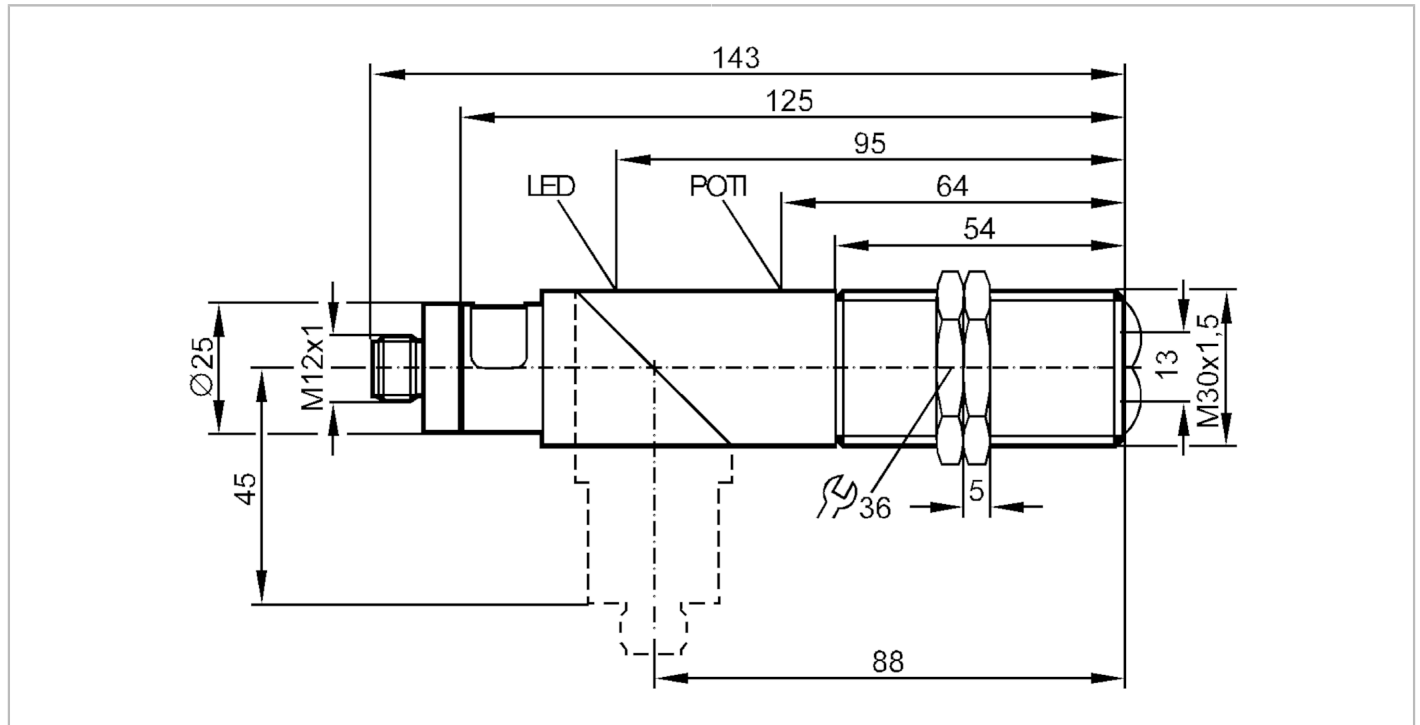


# OI5014



## Diffuse reflection sensor

OIT-FPKG/US-100-DPS




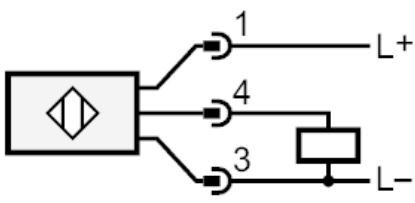
Product characteristics	
Type of light	Infrared light
Housing	Threaded type
Application	
Function principle	Diffuse reflection sensor
Application	Industrial applications
Electrical data	
Operating voltage [V]	10...55 DC
Current consumption [mA]	10; ((24 V))
Protection class	II
Reverse polarity protection	yes
Type of light	Infrared light
Wave length [nm]	880
Outputs	
Electrical design	PNP
Output function	light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	100
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

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Monitoring range		
Range	[mm]	3...700; (white paper 200 x 200 mm)
Range adjustable		yes
Max. light spot diameter	[mm]	122
Light spot dimensions refer to		at maximum range
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65
Tests / approvals		
EMC	EN 60947-5-2	
MTTF	[years]	659
Mechanical data		
Weight	[g]	132
Housing		Threaded type
Dimensions	[mm]	M30 x 1.5 / L = 143
Thread designation		M30 x 1.5
Material		housing: PPO modified
Lens material		front lens:glass
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Accessories		
Items supplied		lock nuts: 2 screwdrivers
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; coding: A; Contacts: 4		
		
Connection		
		

# OI5014



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### Diagrams and graphs

excess gain graph

