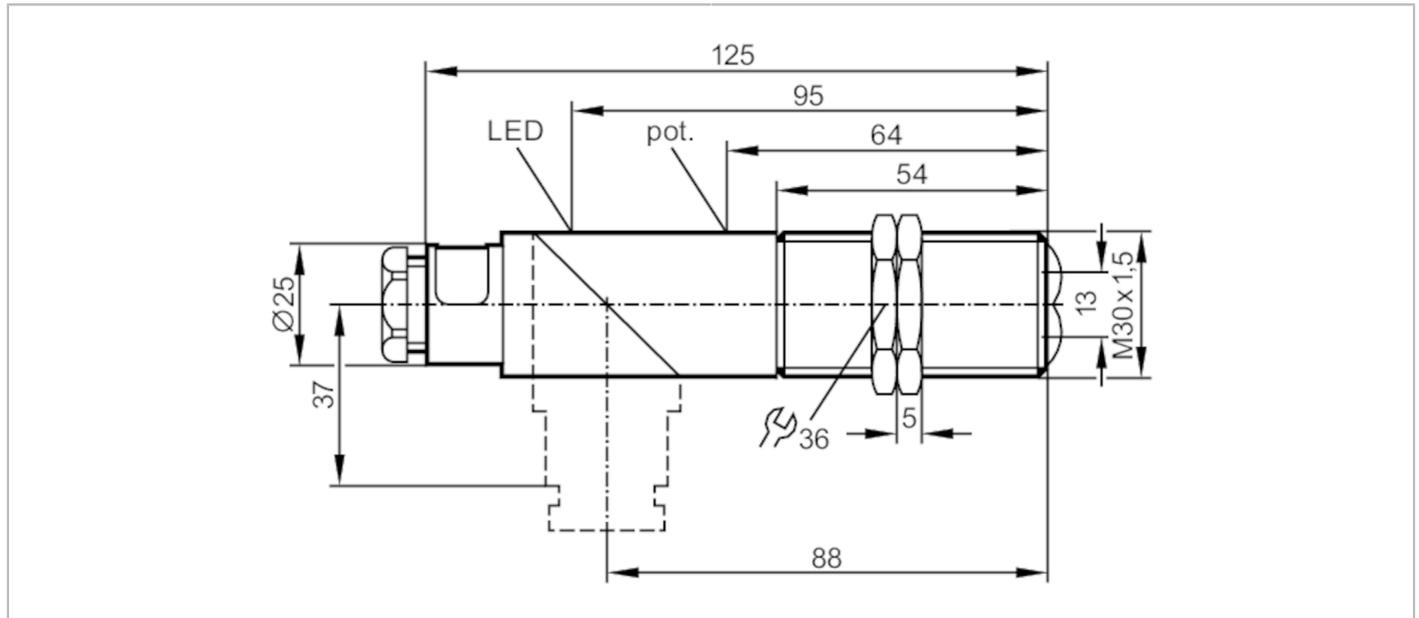


OI5004



Diffuse reflection sensor

OIT-FNKG



Product characteristics	
Type of light	Infrared light
Housing	Threaded type
Application	
Function principle	Diffuse reflection sensor
Electrical data	
Operating voltage [V]	10...55 DC; (cULus - Class 2 source required)
Current consumption [mA]	30; ((24 V))
Protection class	II
Reverse polarity protection	yes
Type of light	Infrared light
Wave length [nm]	880
Outputs	
Electrical design	NPN
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
Monitoring range	
Range [mm]	3...700; (white paper 200 x 200 mm)
Range adjustable	yes

OI5004



Diffuse reflection sensor

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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	
UL approval	Ta	< 40 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	UL approval number	E031
	File number UL	E174191

Mechanical data

Weight [g]	125.5
Housing	Threaded type
Dimensions [mm]	M30 x 1.5 / L = 125
Thread designation	M30 x 1.5
Material	PBT; PPO modified
Lens material	PMMA

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Accessories

Items supplied	lock nuts: 2
	screwdrivers

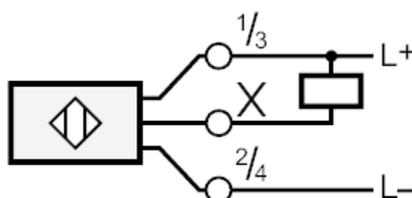
Remarks

Pack quantity	1 pcs.
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Electrical connection

terminals: ...1.5 mm²; Cable sheath: Ø 7...13 mm; Cable gland: M20 X 1.5

Connection



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Diagrams and graphs

excess gain graph

