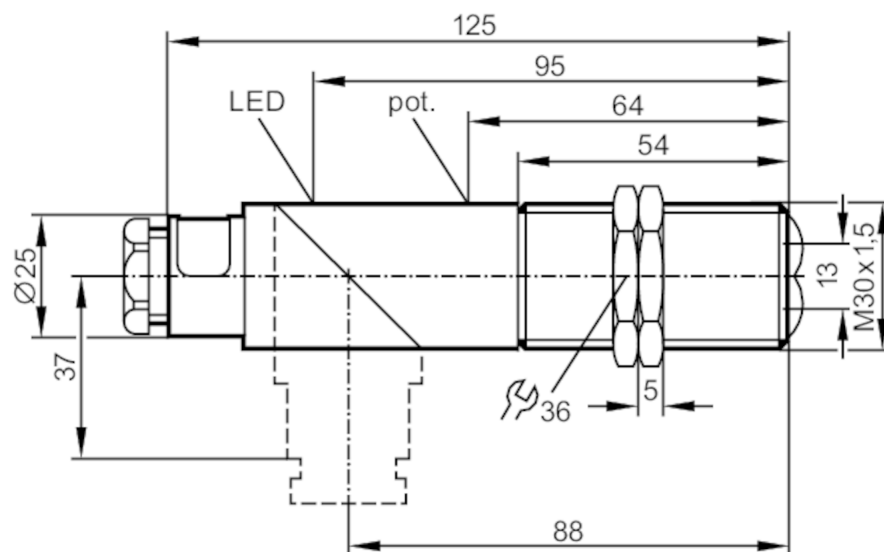




Diffuse reflection sensor

OIT-FNKG



Product characteristics

Type of light	Infrared light
Housing	Threaded type

Application

Function principle	Diffuse reflection sensor
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Electrical data

Operating voltage	[V]	10...55 DC
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



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

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

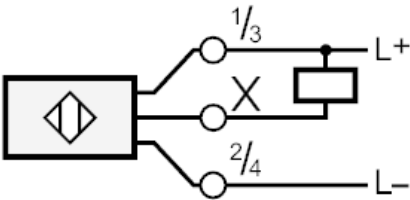
Remarks

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

