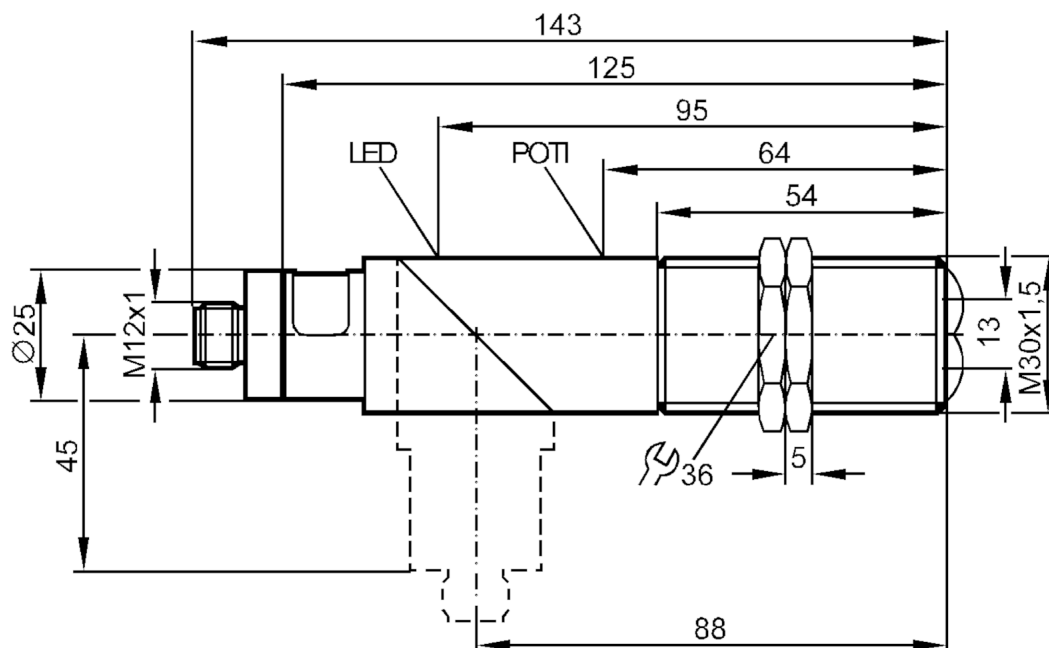




Diffuse reflection sensor

OIT-FPKG/US-100-DPS



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]	10; ((24 V))
Protection class		II
Reverse polarity protection		yes
Type of light		Infrared light
Wave length	[nm]	880

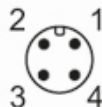
Outputs

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



Diffuse reflection sensor

OIT-FPKG/US-100-DPS

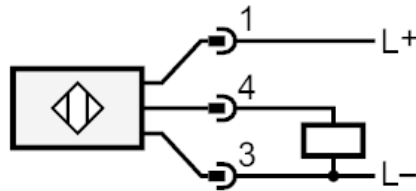
Monitoring range		
Range	[mm]	3...700; (white paper 200 x 200 mm)
Range adjustable		yes
Max. light spot diameter	[mm]	122
Light spot dimensions refer to		at maximum range
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65
Tests / approvals		
EMC	EN 60947-5-2	
MTTF	[years]	659
Mechanical data		
Weight	[g]	132
Housing		Threaded type
Dimensions	[mm]	M30 x 1.5 / L = 143
Thread designation		M30 x 1.5
Material		PPO modified
Lens material		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		
		



Diffuse reflection sensor

OIT-FPKG/US-100-DPS

Connection



Diagrams and graphs

excess gain graph

