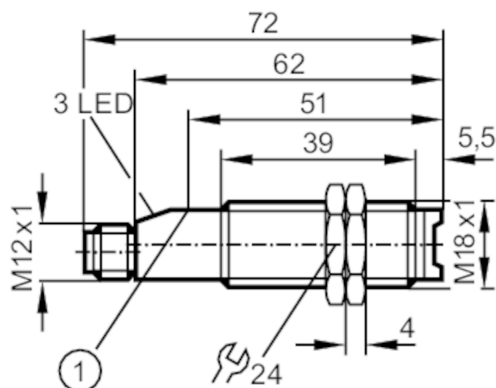


Diffuse reflection sensor

OGTLFNKG/B5/V4A/US-100

Article no longer available - archive entry



1 pushbutton

Product characteristics

Type of light	red light
Laser protection class	2
Housing	Threaded type

Application

System	gold-plated contacts; Function check output
Function principle	Diffuse reflection sensor

Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 30; (Power; \$Einstellung: < 50 mA)
Protection class		II
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	675
Typ. lifetime	[h]	50000

Outputs

Electrical design		NPN
Output function		light-on/dark-on mode; (configurable)
Max. voltage drop switching output DC	[V]	2.5
Function check output		yes
Max. voltage drop of function check output	[V]	3.5
Max. current load for function check output	[mA]	10
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	500
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)



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Overload protection	yes
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Monitoring range

Range	[mm]	1...150; (white paper 200 x 200 mm 90 % remission)
Range adjustable		yes
Max. light spot diameter	[mm]	0.1
Light spot dimensions refer to		Range

Operating conditions

Ambient temperature	[°C]	-10...50
Protection		IP 67

Tests / approvals

EMC	EN 60947-5-2	
Laser protection class		2
Notes on laser protection	Caution:	Laser light
	pulse performance:	<= 2,2 mW
	Wave length:	675 nm
	Frequency:	2,2 kHz
	Pulse length:	24 µs
	Do not stare into beam.	
	Avoid exposure to the laser light.	
	laser class:	2
		EN 60825-1

Mechanical data

Housing		Threaded type
Dimensions	[mm]	M18 x 1 / L = 72
Thread designation		M18 x 1
Material		stainless steel (1.4404 / 316L); PBT
Lens material		PMMA

Displays / operating elements

Display	Switching status	1 x LED, yellow
	Power	1 x LED, green
	Function	1 x LED, red

Accessories

Items supplied	lock nuts: 2
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Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



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Connection



2 Function check output

Diagrams and graphs

excess gain graph

