

Diffuse reflection sensor

OGT-FNKG/US-100

Article no longer available - archive entry

Alternative articles: OGT500 + EVC01E

When selecting an alternative article and accessories please note that technical data may differ!



1 pushbutton

Product characteristics

Type of light	infrared light
Housing	threaded type

Application

Special feature	Gold-plated contacts; Function check output
Function principle	Diffuse reflection sensor

Electrical data

Operating voltage	[V]	10...36 DC
Current consumption	[mA]	< 32
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; (parameterisable)
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		pulsed



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Overload protection	yes
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Detection zone

Range	[mm]	1...600; (white paper 200 x 200 mm 90% remission)
Range adjustable		yes
Max. light spot diameter	[mm]	169
Light spot dimensions refer to		at maximum range

Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 67

Tests / approvals

EMC	EN 60947-5-2	
	EN 55011	class B

Mechanical data

Housing		threaded type
Dimensions	[mm]	M18 x 1 / L = 72
Thread designation		M18 x 1
Materials		PBT
Lens material		PMMA

Displays / operating elements

Display	switching status	1 x LED, yellow
	operation	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

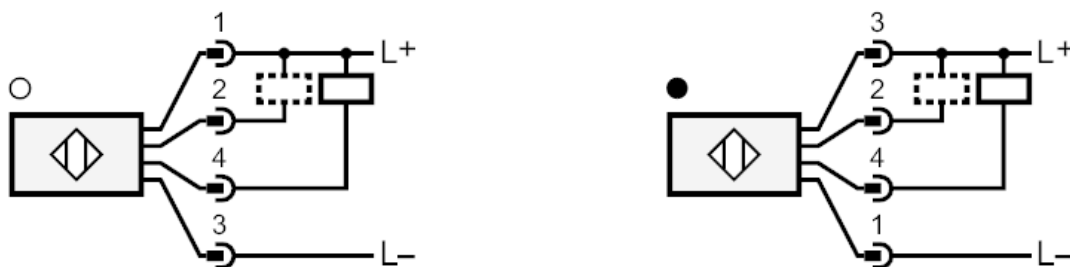
Connector: 1 x M12; coding: A; Contacts: gold-plated



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Connection



2 Function check output

Diagrams and graphs

excess gain graph

