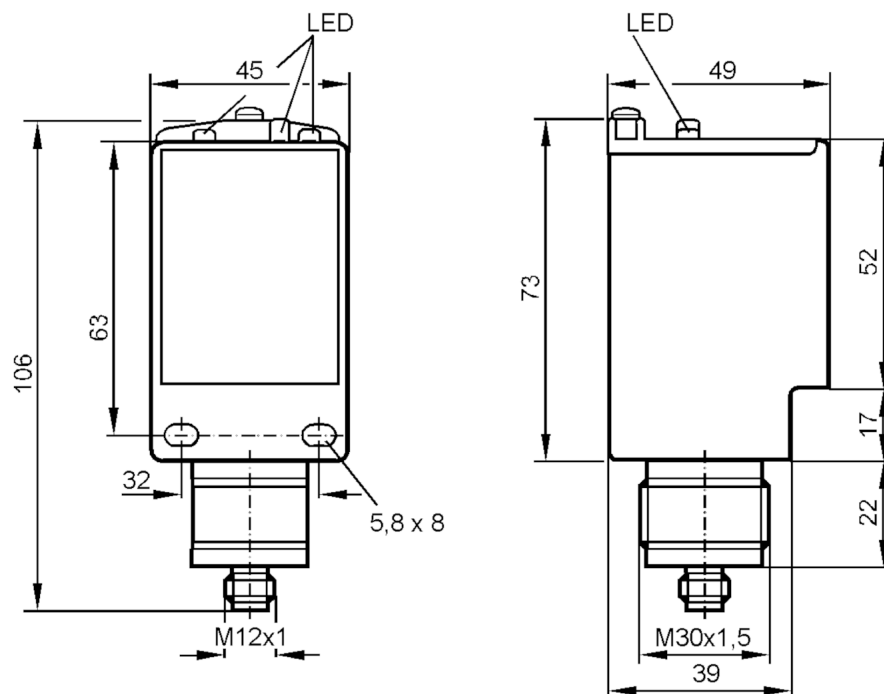




Diffuse reflection sensor

OMT-FCKG/US-100



receiver in lower lens
transmitter in upper lens



Product characteristics

Type of light	infrared light
Housing	rectangular

Application

Function principle	Diffuse reflection sensor
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Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 80
Protection class		II
Reverse polarity protection		yes
Type of light		infrared light
Wave length	[nm]	880
Typ. lifetime	[h]	50000
Reference temperature for service life	[°C]	25

Outputs

Electrical design		PNP/NPN
Output function		light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC	[V]	2
Max. voltage drop of function check output	[V]	2



Diffuse reflection sensor

OMT-FCKG/US-100

Max. current load for function check output	[mA]	100
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	500
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Detection zone

Range	[mm]	< 3500
Range adjustable		yes

Response times

Response time	[s]	< 1
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Operating conditions

Ambient temperature	[°C]	-25...40
Protection		IP 67

Tests / approvals

EMC	IEC 1000-4-2/3/4/5/6	
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Mechanical data

Weight	[g]	190
Housing		rectangular
Dimensions	[mm]	73 x 45 x 49
Materials		ABS glass fibre reinforced
Lens material		PMMA
Lens alignment		side lens

Displays / operating elements

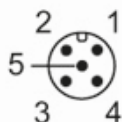
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
	function	1 x LED, red

Remarks

Notes	phase-out article
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Locking: aluminium, uncoloured anodised



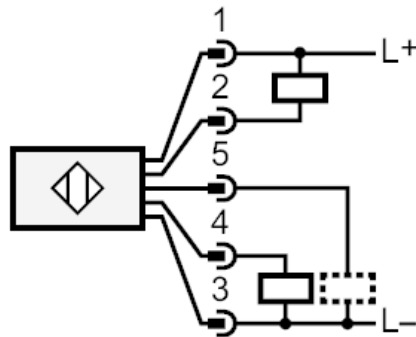
OM5004

Diffuse reflection sensor

OMT-FCKG/US-100



Connection



5

Function check output