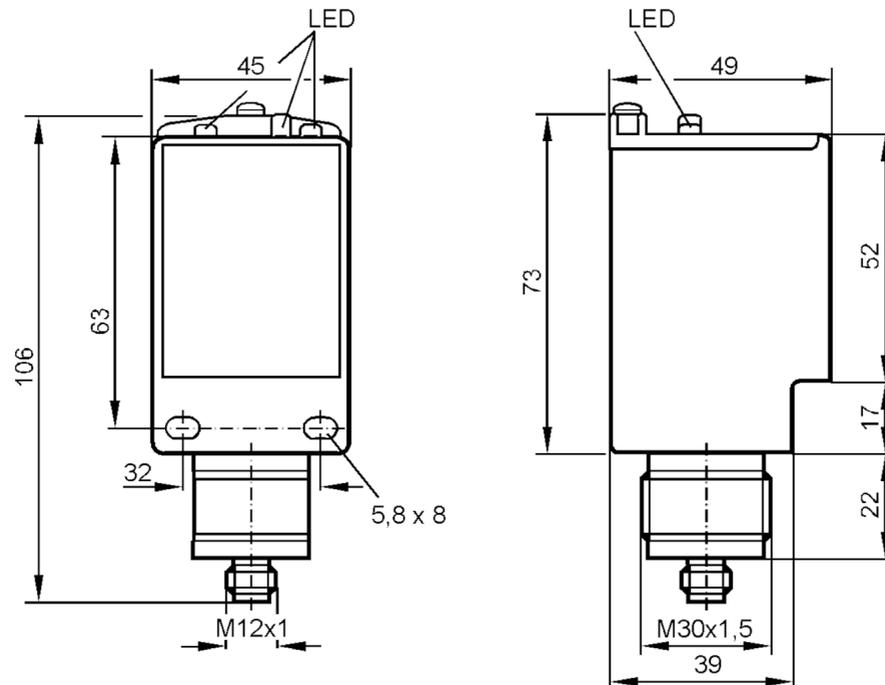


# OM5004



## Diffuse reflection sensor

OMT-FCKG/US-100



receiver in lower lens  
transmitter in upper lens



### Product characteristics

Type of light	infrared light
Housing	rectangular
Dimensions [mm]	73 x 45 x 49

### 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

# OM5004



## Diffuse reflection sensor

OMT-FCKG/US-100

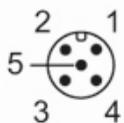
Outputs		
Electrical design	PNP/NPN	
Output function	light-on/dark-on mode; (programmable)	
Max. voltage drop switching output DC [V]	2	
Max. voltage drop of function check output [V]	2	
Max. current load for function check output [mA]	100	
Permanent current rating of switching output DC [mA]	100	
Switching 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	
Operating conditions		
Ambient temperature [°C]	-25...40	
Protection	IP 67	
Tests / approvals		
EMC	IEC 1000-4-2/3/4/5/6	
Mechanical data		
Weight [g]	190	
Housing	rectangular	
Dimensions [mm]	73 x 45 x 49	
Materials	ABS glass fibre reinforced; connector housing: aluminium uncoloured anodised	
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		
Pack quantity	1 pcs.	
Electrical connection		
Connector: 1 x M12		

# OM5004

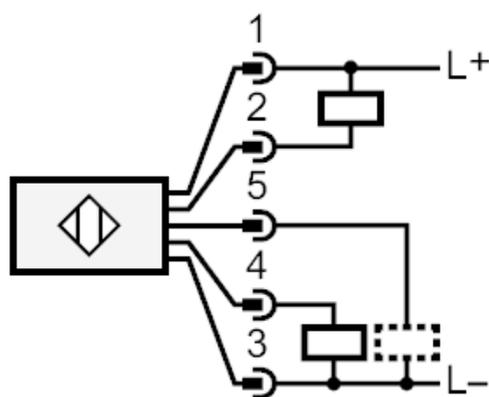


## Diffuse reflection sensor

OMT-FCKG/US-100



### Connection



5

Function check output