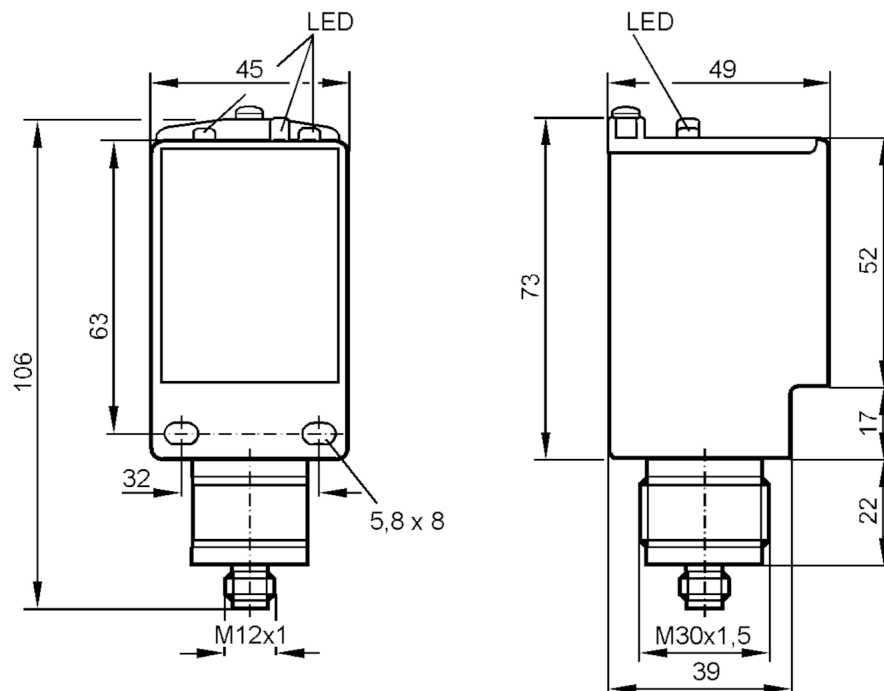


OM5003



Retro-reflective sensor

OMP-FCKG/US-100



receiver in lower lens
transmitter in upper lens



Product characteristics

Type of light	red light
Housing	rectangular

Application

Special feature	polarisation filter
Function principle	Retro-reflective sensor

Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	< 80
Protection class		II
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	660
Typ. lifetime	[h]	100000
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



Retro-reflective sensor

OMP-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 referred to prismatic reflector [m]	13.5; (Prismatic reflector Ø 80 E20005)
Polarisation filter available	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]	191
Housing	rectangular
Dimensions [mm]	73 x 45 x 49
Materials	ABS glass fibre reinforced
Lens material	PMMA
Lens alignment	side lens

Displays / operating elements

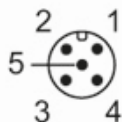
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
	function	1 x LED, red

Remarks

Pack quantity	1 pcs.
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Electrical connection

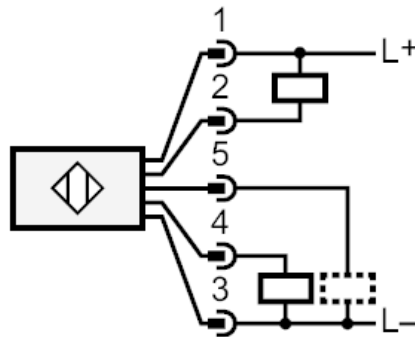
Connector: 1 x M12; coding: A; Locking: aluminium, uncoloured anodised



Retro-reflective sensor

OMP-FCKG/US-100

Connection



5

Function check output