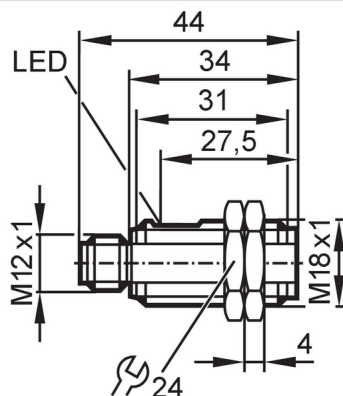


OGP102



Retro-reflective sensor

OGP-DNKG/US



Product characteristics

Type of light	red light
Housing	threaded type

Application

Special feature	polarisation filter
Function principle	Retro-reflective sensor
Application	For use in conveying and materials handling

Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	20
Protection class		III
Reverse polarity protection		yes
Type of light		red light

Outputs

Electrical design		NPN
Output function		dark-on mode
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	200
Switching frequency DC	[Hz]	1000
Short-circuit protection		yes
Overload protection		yes

Detection zone

Range referred to prismatic reflector	[m]	0.05...2.5; (Prismatic reflector Ø 80 E20005)
Range adjustable		no
Max. light spot diameter	[mm]	200
Light spot dimensions refer to		at maximum range
Polarisation filter available		yes

Operating conditions

Ambient temperature	[°C]	-25...60
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Retro-reflective sensor

OGP-DNKG/US

Protection	IP 67; (in conjunction with a corresponding connector)
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Tests / approvals

EMC	EN 60947-5-2
MTTF [years]	1161

Mechanical data

Weight [g]	14.6
Housing	threaded type
Dimensions [mm]	M18 x 1 / L = 44
Thread designation	M18 x 1
Materials	housing: ABS
Lens material	front pane:PMMA

Displays / operating elements

Display	switching status	1 x LED, yellow
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Accessories

Items supplied	lock nuts: 2
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Remarks

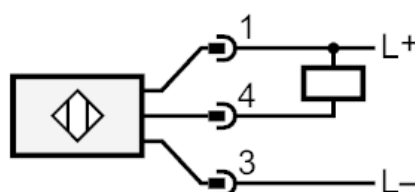
Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4



Connection



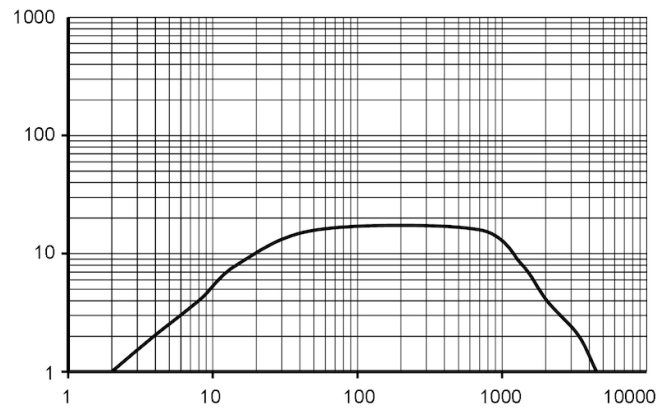


Retro-reflective sensor

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Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor