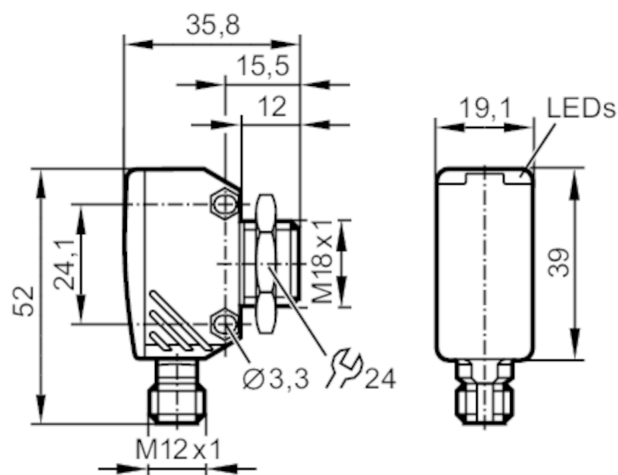




Retro-reflective sensor

OGP-DNKG/US/CUBE



transmitter in lower lens
receiver in upper lens



Application

Function principle Retro-reflective sensor

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	25
Protection class	III
Reverse polarity protection	yes
Type of light	red light
Wave length [nm]	624

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
Type of short-circuit protection	pulsed
Overload protection	yes

Detection zone

Range referred to prismatic reflector [m]	0.1...4; (Prismatic reflector Ø 80 E20005)
Range adjustable	no
Max. light spot diameter [mm]	160
Light spot dimensions refer to	at maximum range
Polarisation filter available	yes



Retro-reflective sensor

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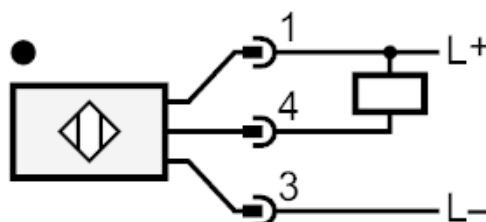
Operating conditions		
Ambient temperature	[°C]	-25...60
Protection		IP 67
Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	1093
Mechanical data		
Weight	[g]	59.7
Housing		rectangular
Materials		diecast zinc; PEI
Lens material		PMMA
Lens alignment		side lens
Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
Accessories		
Accessories (supplied)		lock nut: 1 x
Remarks		
Remarks		operating voltage "supply class 2" according to cULus
Pack quantity		1 pcs.

Electrical connection

Connector: 1 x M12



Connection





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Diagrams and graphs

excess gain graph

