

OGP100



Retro-reflective sensor

OGP-DPKG/US



Application

Function principle	Retro-reflective sensor
--------------------	-------------------------

Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	20
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	645

Outputs

Electrical design		PNP
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
Protection		IP 67; (in conjunction with a corresponding connector)

OGP100



Retro-reflective sensor

OGP-DPKG/US

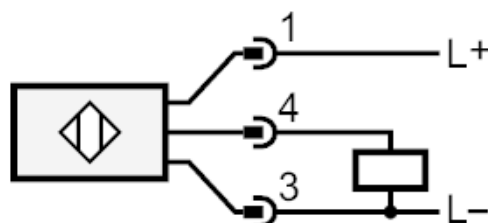
Tests / approvals		
EMC	EN 60947-5-2	
MTTF	[years]	1173
Mechanical data		
Weight	[g]	14.6
Housing	threaded type	
Dimensions	[mm]	M18 x 1 / L = 44
Thread designation	M18 x 1	
Materials	housing: ABS	
Lens material	PMMA	
Displays / operating elements		
Display	switching status	1 x LED, yellow
Accessories		
Accessories (supplied)	lock nuts: 2 x	
Remarks		
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12



Connection





Retro-reflective sensor

OGP-DPKG/US

Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservfaktor