



Retro-reflective sensor

OUR-HPKG/US-100-DPO



Receiver in upper lens
transmitter in lower lens



Product characteristics

Type of light	Infrared light
Housing	rectangular

Application

Function principle	Retro-reflective sensor
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Electrical data

Operating voltage [V]	10...55 DC; (cULus - Class 2 source required)
Current consumption [mA]	< 35
Protection class	III
Reverse polarity protection	yes
Type of light	Infrared light
Wave length [nm]	880

Outputs

Electrical design	PNP
Output function	light-on mode
Max. voltage drop switching output DC [V]	2.5
Permanent current rating of switching output DC [mA]	250
Switching frequency DC [Hz]	160
Short-circuit protection	yes
Type of short-circuit protection	yes (non-latching)
Overload protection	yes

Monitoring range

Range referred to prismatic reflector [m]	0.15...3; (Prismatic reflector Ø 80 E20005)
Range adjustable	yes
Max. light spot diameter [mm]	262
Light spot dimensions refer to	at maximum range



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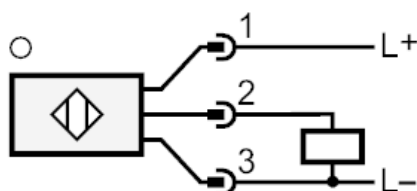
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	685
UL approval	Ta	< 40 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	UL approval number	E031
	File number UL	E174191
Mechanical data		
Weight	[g]	74.5
Housing		rectangular
Dimensions	[mm]	28 x 16 x 51
Number of channels		1
Material		PPO modified
Lens material		glass
Displays / operating elements		
Display	Switching status	1 x LED, yellow
Accessories		
Items supplied		Angle bracket: 1, E20211
Remarks		
Pack quantity		1 pcs.
Electrical connection		
Connector: 1 x M12; coding: A		
		



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Connection



Diagrams and graphs

excess gain graph

