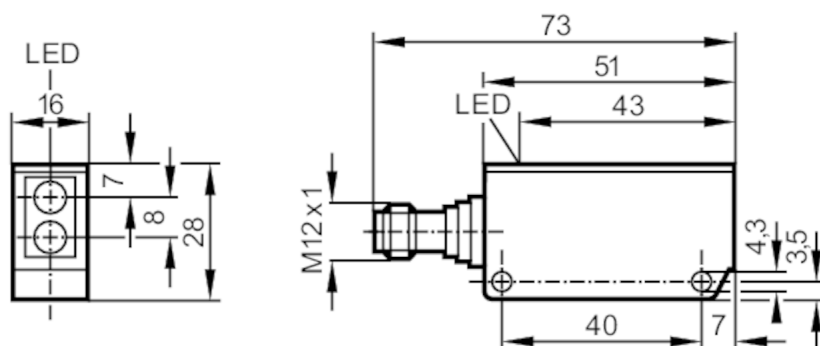




Diffuse reflection sensor

OUN-HPKG/US-100-DPS



Receiver in upper lens
transmitter in lower lens



Product characteristics

Type of light	Infrared light
Housing	rectangular

Application

System	short ranges
Function principle	Diffuse reflection sensor

Electrical data

Operating voltage	[V]	10...55 DC; (cULus - Class 2 source required)
Current consumption	[mA]	35; ((24 V))
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	[mm]	20...40; (white paper 200 x 200 mm)
Max. light spot diameter	[mm]	20
Light spot dimensions refer to		at maximum range
Short ranges		yes



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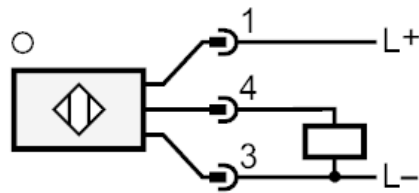
Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 67
Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	685
UL approval	Ta	< 40 °C
	Enclosure type	Type 1
	voltage supply	Class 2
	UL approval number	E031
	File number UL	E174191
Mechanical data		
Weight	[g]	70.5
Housing		rectangular
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		
		



Diffuse reflection sensor

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Connection



Diagrams and graphs

excess gain graph

