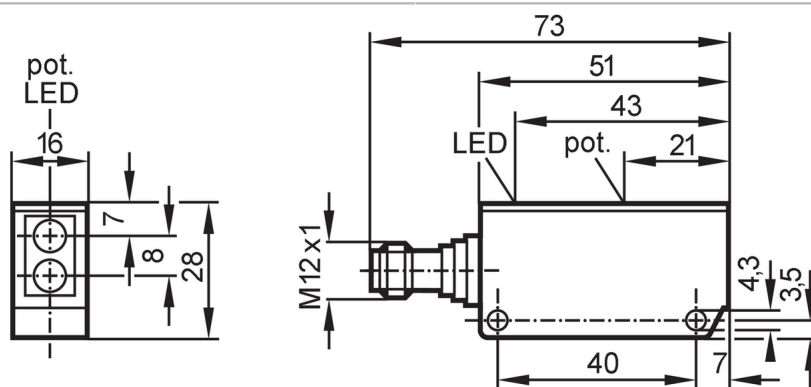




Diffuse reflection sensor

OUT-DPKG/US-100-DPO



Receiver in upper lens
transmitter in lower lens



Product characteristics

Type of light	Infrared light
Housing	rectangular

Application

Function principle	Diffuse reflection sensor
Application	Industrial applications

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		dark-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]	1...200; (white paper 200 x 200 mm)
Range adjustable		yes
Max. light spot diameter	[mm]	180
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	E032
	File number UL	E174191

Mechanical data

Weight	[g]	74.5
Housing		rectangular
Dimensions	[mm]	28 x 16 x 51
Number of channels		1
Material		housing: PPO modified
Lens material		front lens:glass

Displays / operating elements

Display	Switching status	1 x LED, yellow
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Accessories

Items supplied	Angle bracket: 1, E20211
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Remarks

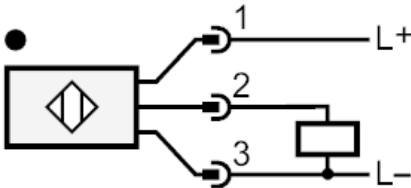
Pack quantity	1 pcs.
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Electrical connection

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



Connection





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Diagrams and graphs

excess gain graph

