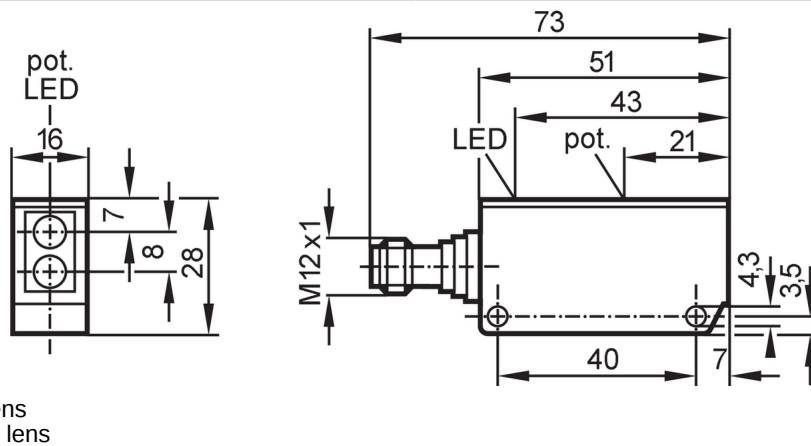




Diffuse reflection sensor

OUT-HPKG/US-100-DPS



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 / factory automation

Electrical data

Operating voltage	[V]	10...55 DC; ("supply class 2" to cULus)
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
Overload protection	yes

Detection zone

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

Operating conditions

Ambient temperature	[°C]	-25...80
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Diffuse reflection sensor

OUT-HPKG/US-100-DPS

Protection	IP 67
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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 no.	E032
	File number UL	E174191

Mechanical data

Weight [g]	73.4
Housing	rectangular
Dimensions [mm]	28 x 16 x 51
Number of channels	1
Materials	housing: PPO modified
Lens material	front pane: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

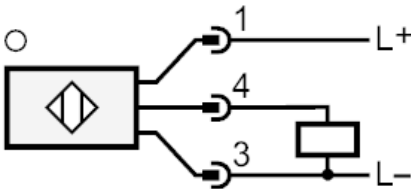
Pack quantity	1 pcs.
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Electrical connection

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



Connection





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Diagrams and graphs

excess gain graph

