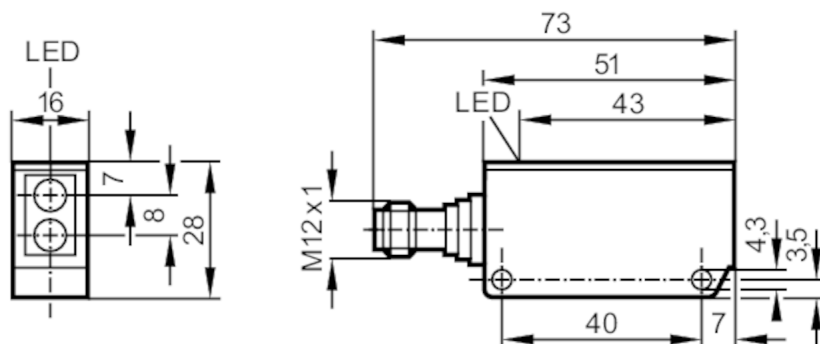


Diffuse reflection sensor

OUN-HPKG/US-100-DPS



receiver in upper lens
transmitter in lower lens



Product characteristics

Type of light	infrared light
Housing	rectangular

Application

Special feature	Diffuse reflection sensor for short ranges
Function principle	Diffuse reflection sensor

Electrical data

Operating voltage	[V]	10...55 DC
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		pulsed
Overload protection		yes

Detection zone

Range	[mm]	20...40; (white paper 200 x 200 mm)
Max. light spot diameter	[mm]	20
Light spot dimensions refer to		at maximum range
Diffuse reflection sensor for short ranges		yes



Diffuse reflection sensor

OUN-HPKG/US-100-DPS

Operating conditions

Ambient temperature	[°C]	-25...80
Protection		IP 67

Tests / approvals

EMC		EN 60947-5-2
MTTF	[years]	685

Mechanical data

Weight	[g]	70.5
Housing		rectangular
Dimensions	[mm]	28 x 16 x 51
Materials		PPO modified
Lens material		glass
Lens alignment		side lens

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

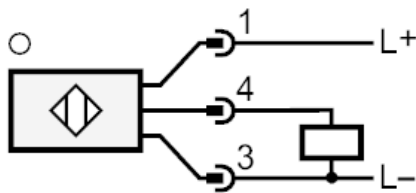
Pack quantity		1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



Connection



**Diffuse reflection sensor**

OUN-HPKG/US-100-DPS

Diagrams and graphs

excess gain graph

