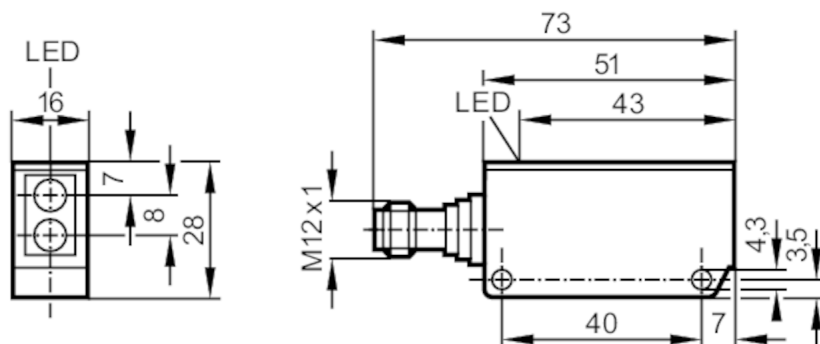


Diffuse reflection sensor

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

Accessories	
Items supplied	Angle bracket: 1, E20211

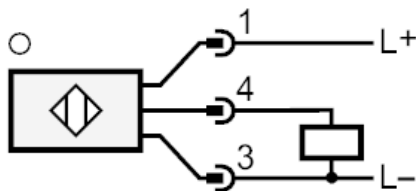
Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection





Diffuse reflection sensor

OUN-HPKG/US-100-DPS

Diagrams and graphs

excess gain graph

