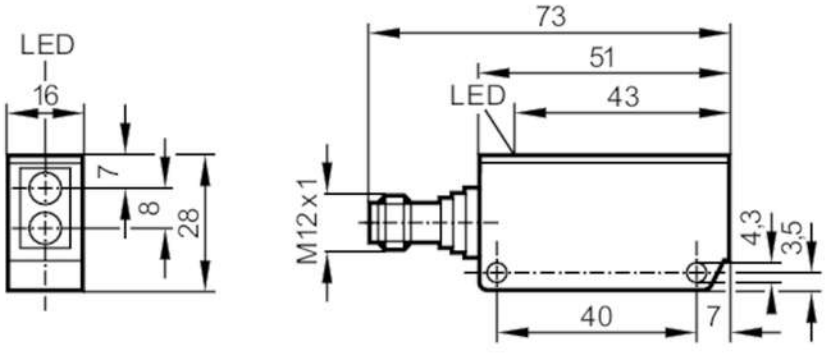
OU5069

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

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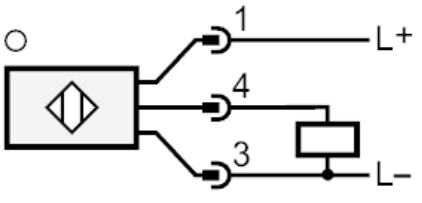
Operating conditions			
Ambient temperature	[°C]	-25...80	
Protection		IP 67	
Tests / approvals			
EMC		EN 60947-5-2	
MTTF	[years]	685	
Mechanical data			
Weight	[g]	70.5	
Housing		rectangular	
Dimensions	[mm]	28 x 16 x 51	
Materials		PPO modified	
Lens material		glass	
Lens alignment		side lens	
Displays / 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



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Diagrams and graphs

excess gain graph

