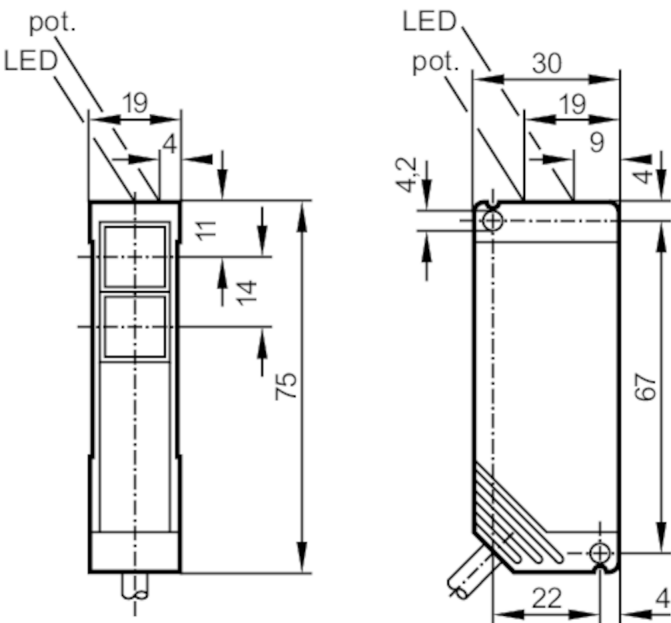


OT5001



Diffuse reflection sensor

OTT-FPKG



- 1 potentiometer
Receiver in lower lens
Transmitter in upper lens



Product characteristics		
Type of light		Infrared light
Housing		rectangular
Application		
Function principle		Diffuse reflection sensor
Electrical data		
Operating voltage	[V]	10...55 DC
Current consumption	[mA]	40; ((24 V))
Protection class		II
Reverse polarity protection		yes
Type of light		Infrared light
Wave length	[nm]	880
Outputs		
Electrical design		PNP
Output function		light-on/dark-on mode; (programmable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	250
Switching frequency DC	[Hz]	150
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Overload protection		yes

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Monitoring range		
Range	[mm]	4...200; (white paper 200 x 200 mm)
Range adjustable		yes
Max. light spot diameter	[mm]	187
Light spot dimensions refer to		at maximum range
Operating conditions		
Ambient temperature	[°C]	-25...60
Protection		IP 67
Tests / approvals		
EMC	EN 60947-5-2	
	EN 55011	class B
MTTF	[years]	583
Mechanical data		
Weight	[g]	200.5
Housing		rectangular
Dimensions	[mm]	75 x 19 x 30
Material		PBT
Lens material		PMMA
Lens alignment		Side sensing
Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green
Accessories		
Items supplied		Angle bracket: 1, E20441 screwdrivers
Remarks		
Pack quantity		1 pcs.

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Electrical connection

Cable: 2 m, PVC; 3 x 0.34 mm²

Connection



BN = brown
BU = blue
BK = black

Diagrams and graphs

excess gain graph

