

OT5023



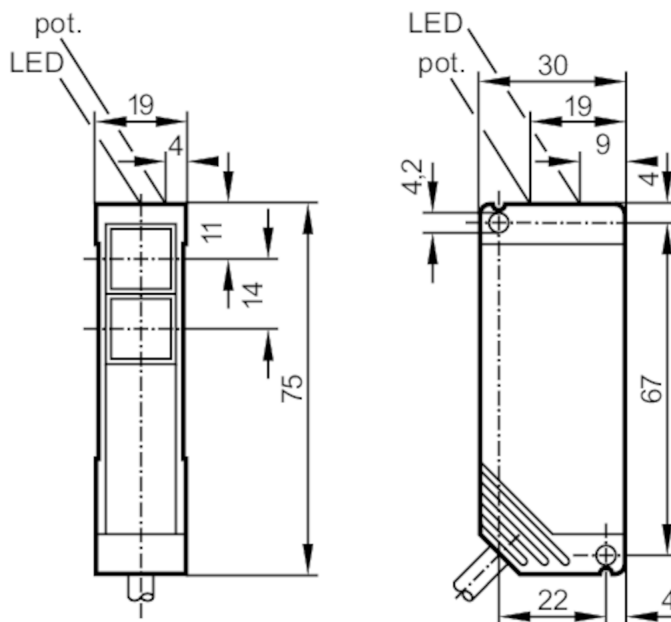
Diffuse reflection sensor

OTT-FPKG/6M/PH

Article no longer available - archive entry

Alternative articles: OT5019 or OT5003

When selecting an alternative article and accessories please note that technical data may differ!



- 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
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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

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Diffuse reflection sensor

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Switching frequency DC	[Hz]	150	
Short-circuit protection		yes	
Type of short-circuit protection		yes (non-latching)	
Overload protection		yes	
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			
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.	



Diffuse reflection sensor

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Electrical connection

Cable: 6 m, PUR; 3 x 0.34 mm²

Connection



Core colors :
 BN = brown
 BU = blue
 BK = black

Diagrams and graphs

excess gain graph

