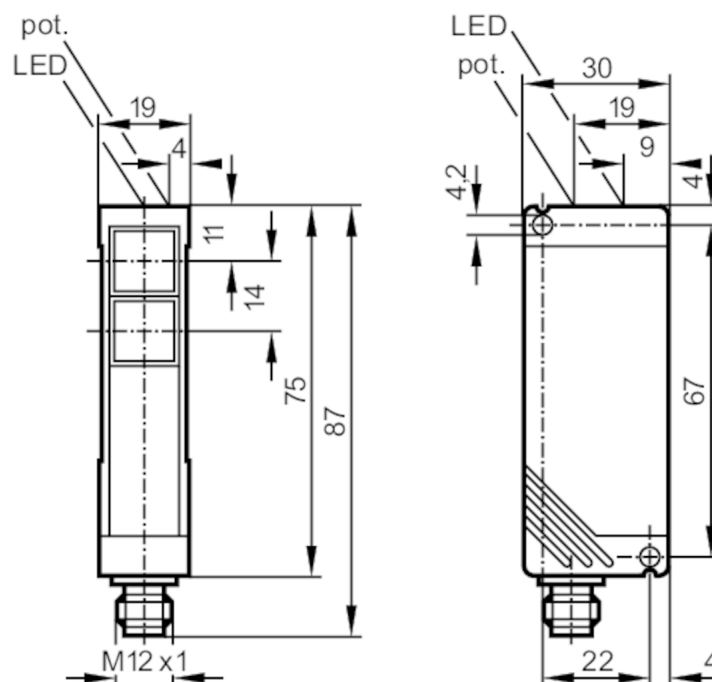


OT5003



Diffuse reflection sensor

OTT-FPKG/US-100-IPF



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...50 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

OT5003



Diffuse reflection sensor

OTT-FPKG/US-100-IPF

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 65

Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]	583	

Mechanical data	
Weight [g]	146.5
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, E20461 screwdrivers

Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A





Diffuse reflection sensor

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Connection



Diagrams and graphs

excess gain graph

