

# O6T401



## Diffuse reflection sensor

O6T-FNKG/AS/4P



- 1: output function switch  
2: potentiometer sensitivity



### Product characteristics

Type of light	red light
Housing	rectangular

### Application

Function principle	Diffuse reflection sensor
Application	suited for use in the machine tool industry

### Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	16; ((24 V))
Protection class		III
Reverse polarity protection		yes
Type of light		red light
Wave length	[nm]	633

### Outputs

Electrical design		NPN
Output function		light-on/dark-on mode; (selectable)
Max. voltage drop switching output DC	[V]	2.5
Permanent current rating of switching output DC	[mA]	100
Switching frequency DC	[Hz]	1000
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)

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Monitoring range		
Range	[mm]	5...500; (white paper 200 x 200 mm 90 % remission)
Range adjustable		yes
Max. light spot diameter	[mm]	15
Light spot dimensions refer to		at maximum range
Monitoring range final value	[mm]	100...500

Operating conditions		
Ambient temperature	[°C]	-25...60
Protection		IP 65; IP 67; IP 68

Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	910
UL approval		UL approval number E010

Mechanical data		
Weight	[g]	35.7
Housing		rectangular
Dimensions	[mm]	41.3 x 13 x 21
Material		housing: stainless steel (1.4404 / 316L); plastics: PPSU; sealing: FKM
Lens material		PMMA
Lens alignment		Side sensing

Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green

Remarks		
Remarks		cULus - Class 2 source required
Pack quantity		1 pcs.

### Electrical connection

Connector: 1 x M8; coding: A

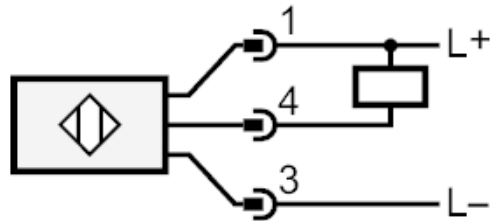




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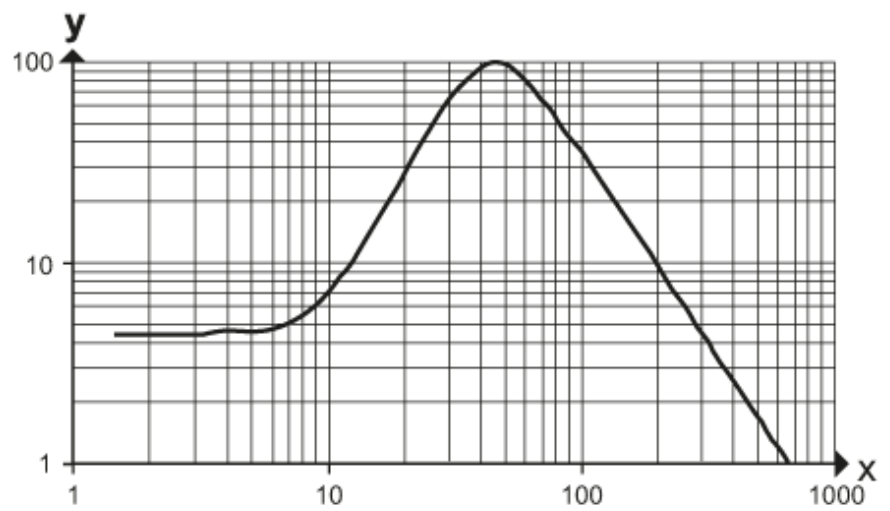
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### Connection



### Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor