

# O6T309



## Diffuse reflection sensor

O6T-FPKG/AS/4P



- 1: output function switch  
2: potentiometer sensitivity



### Product characteristics

Type of light	red light
Communication interface	IO-Link
Housing	rectangular
Dimensions [mm]	41.3 x 13 x 21

### Application

Function principle	Diffuse reflection sensor
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### 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	PNP
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	pulsed

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Detection zone		
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

Interfaces		
Communication interface		IO-Link
Transmission type		COM 2 (38,4 kBaud)
IO-Link revision		1.1
SDCI standard		IEC 61131-9 CDV
IO-Link device ID		423 d / 00 01 A7 h
Profiles		Smart Sensor: Device Identification; Binary Data Channel
SIO mode		yes
Required master port type		A

Operating conditions		
Ambient temperature	[°C]	-25...80
Protection		IP 65; IP 67; IP 68; IP 69K

Tests / approvals		
EMC		EN 60947-5-2
MTTF	[years]	681
UL approval		UL Approval no. E010

Mechanical data		
Weight	[g]	34.4
Housing		rectangular
Dimensions	[mm]	41.3 x 13 x 21
Materials		housing: stainless steel (1.4404 / 316L); plastics: PPSU; Sealing: EPDM
Lens material		PMMA
Lens alignment		side lens

Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green

Remarks		
Remarks		operating voltage "supply class 2" according to cULus
Pack quantity		1 pcs.

### Electrical connection

Connector: 1 x M8

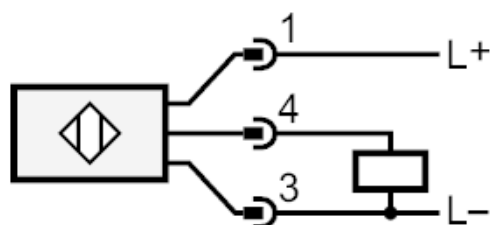




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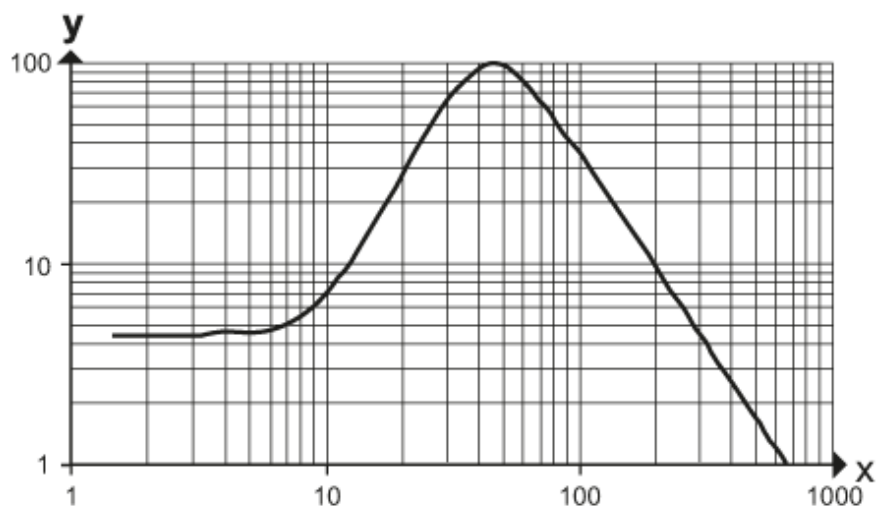
### Connection



4 OUT / IO-Link

### Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor