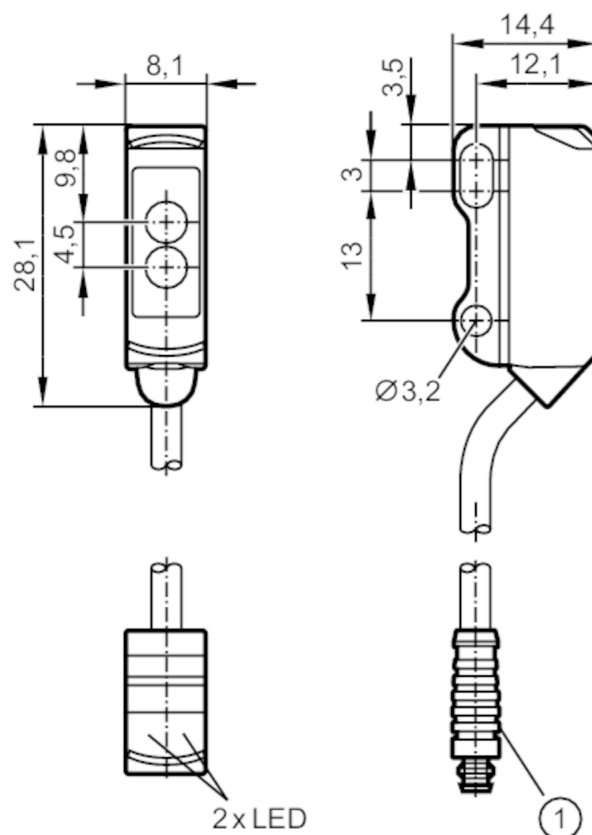


O8T203



Diffuse reflection sensor

O8T-HNKG/0,30M/AS/3P



1

receiver in upper lens
transmitter in lower lens
illustration (example)



Application

Function principle

Diffuse reflection sensor

Electrical data

Operating voltage [V]

10...30 DC

Current consumption [mA]

20; ((24 V))

Protection class

III

Reverse polarity protection

yes

Type of light

red light

Wave length [nm]

633



Diffuse reflection sensor

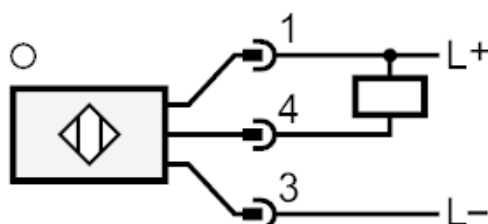
O8T-HNKG/0,30M/AS/3P

Outputs		
Electrical design	NPN	
Output function	light-on mode	
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	
Detection zone		
Range [mm]	0...180; (white paper 200 x 200 mm)	
Max. light spot diameter [mm]	18	
Light spot dimensions refer to	at maximum range	
Operating conditions		
Ambient temperature [°C]	-25...60	
Protection	IP 65; IP 67	
Tests / approvals		
EMC	EN 60947-5-2	
MTTF [years]	1067	
Mechanical data		
Weight [g]	23	
Housing	rectangular	
Dimensions [mm]	28.1 x 8.1 x 14.4	
Materials	housing: ABS; stainless steel (1.4404 / 316L)	
Lens material	PMMA	
Lens alignment	side lens	
Displays / operating elements		
Display	switching status	1 x LED, yellow
	operation	1 x LED, green
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Cable: 0.3 m, PVC, black, Ø 2.9 mm; 3 x 0.08 mm²		
Connector: 1 x M8		
		

Diffuse reflection sensor

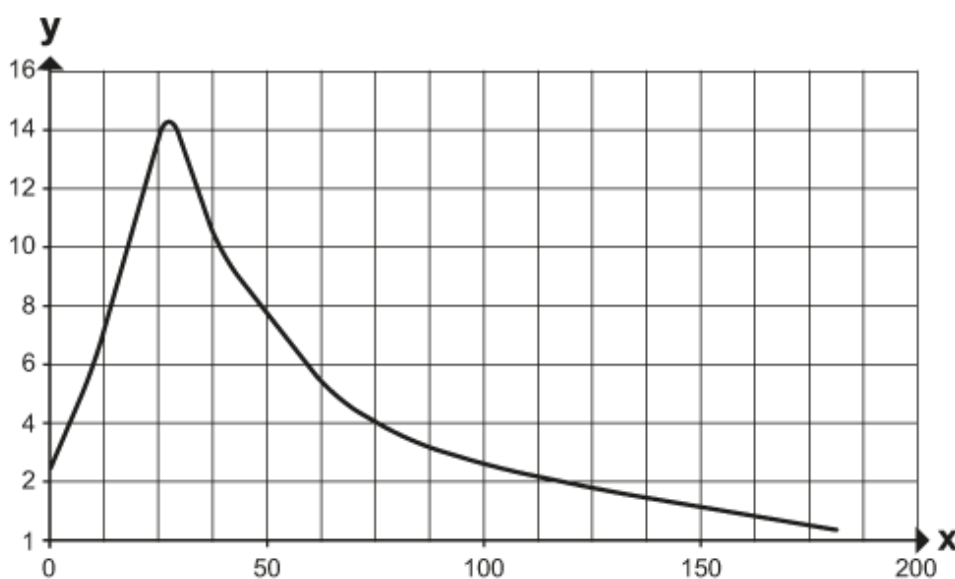
O8T-HNKG/0,30M/AS/3P

Connection



Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservefaktor