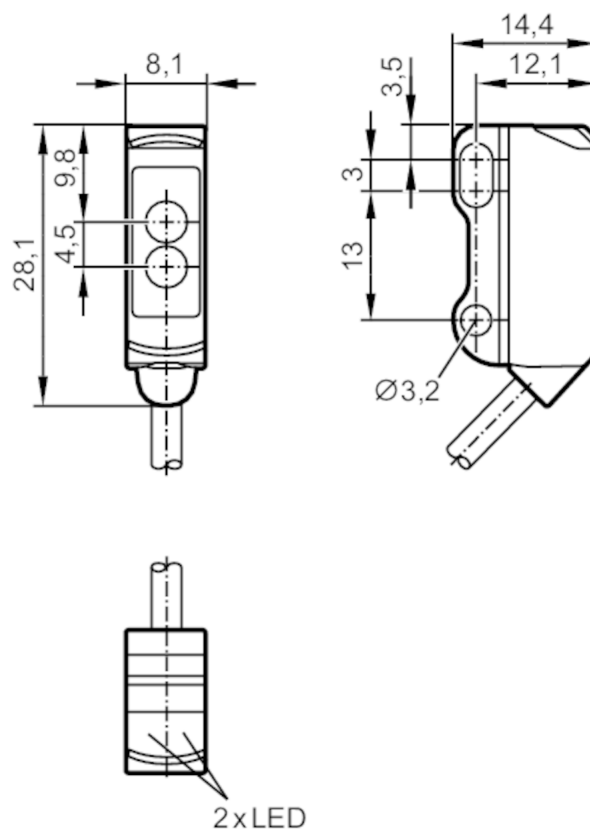


O8T201



Diffuse reflection sensor

O8T-HNKG/2,0M



receiver in upper lens
transmitter in lower lens



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/2,0M

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]	40	
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.	

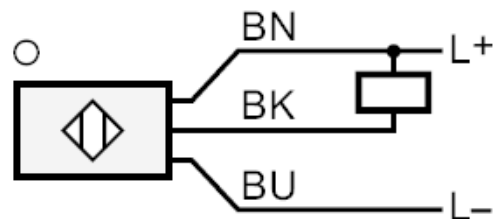
Diffuse reflection sensor

O8T-HNKG/2,0M

Electrical connection

Cable: 2 m, PVC, black, $\varnothing$ 2.9 mm; 3 x 0.08 mm²

Connection

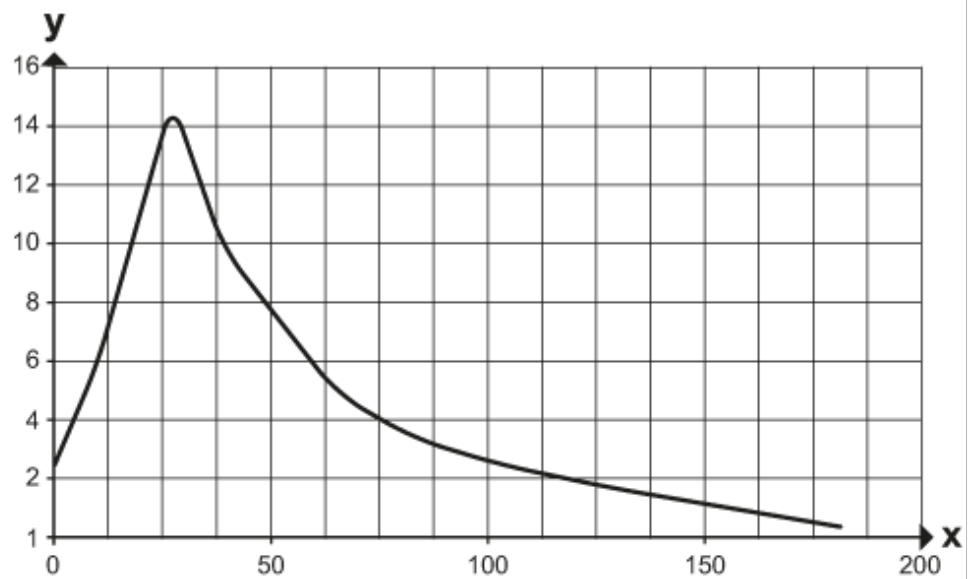


Core colours :

BN = brown
BK = black
BU = blue

Diagrams and graphs

excess gain graph



x: Abstand [mm]

y: Funktionsreservfaktor