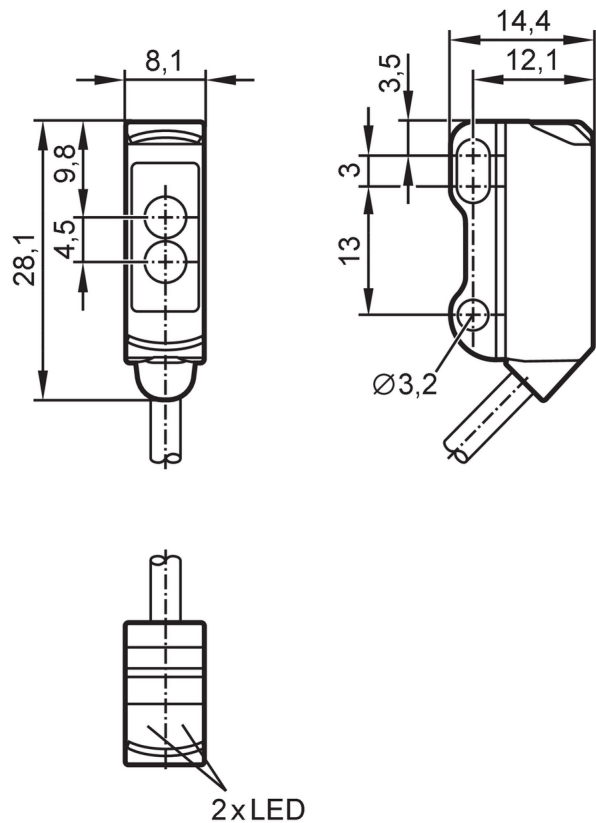


O8T201



Diffuse reflection sensor

O8T-HNKG/2,0M



Receiver in upper lens
transmitter in lower lens



Product characteristics		
Type of light		red light
Housing		rectangular
Application		
Function principle		Diffuse reflection sensor
Application		For applications in robotics, assembly and handling technology
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
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

O8T201



Diffuse reflection sensor

O8T-HNKG/2,0M

Switching frequency DC	[Hz]	1000
Short-circuit protection		yes
Type of short-circuit protection		yes (non-latching)
Monitoring range		
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
UL approval	Ta	-25...60 °C
	Enclosure type	Type 1
	voltage supply	Limited Voltage/Current
	UL approval number	E014
	File number UL	E174191
Mechanical data		
Weight	[g]	40
Housing		rectangular
Dimensions	[mm]	28.1 x 8.1 x 14.4
Material		housing: ABS; rear of the housing: stainless steel (1.4404 / 316L)
Lens material		front lens:PMMA
Lens alignment		Side sensing
Displays / operating elements		
Display	Switching status	1 x LED, yellow
	Power	1 x LED, green
Remarks		
Pack quantity		1 pcs.



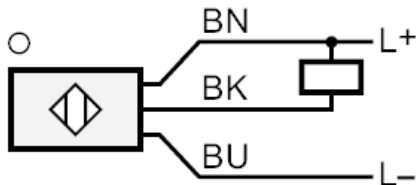
Diffuse reflection sensor

O8T-HNKG/2,0M

Electrical connection

Cable: 2 m, PVC, black, Ø 2.9 mm; 3 x 0.08 mm²

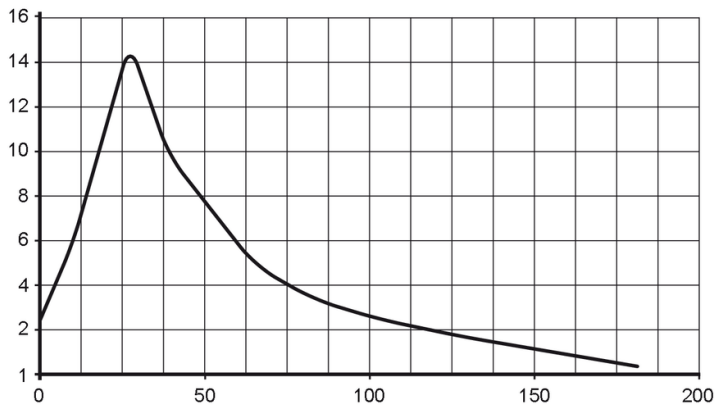
Connection



BN = Core colors : brown
BK = black
BU = blue

Diagrams and graphs

excess gain graph



x: distance [mm]
y: excess gain factor