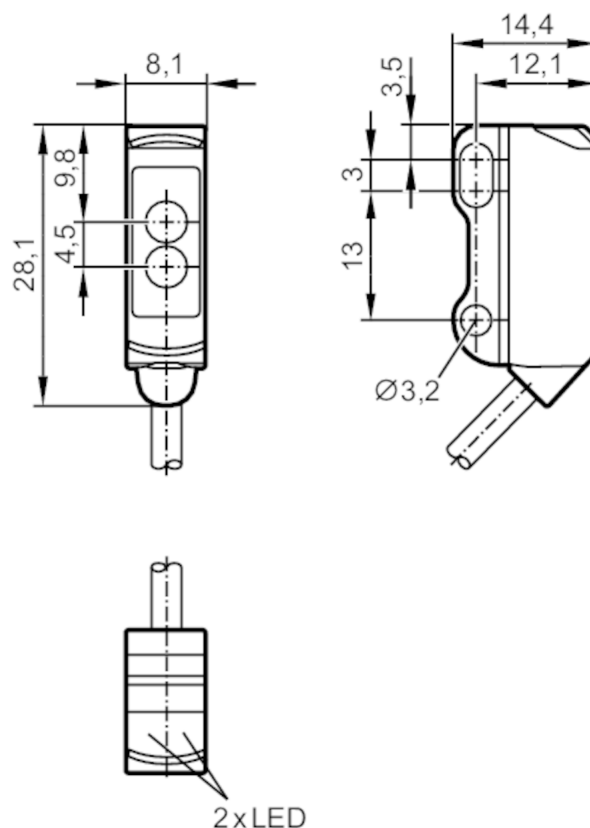


Retro-reflective sensor

O8P-DNKG/2,0M



receiver in upper lens
transmitter in lower lens



Product characteristics

Type of light	red light
Housing	rectangular
Dimensions [mm]	28.1 x 8.1 x 14.4

Application

Special feature	polarisation filter
Function principle	Retro-reflective 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



Retro-reflective sensor

O8P-DNKG/2,0M

Outputs		
Electrical design	NPN	
Output function	dark-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 referred to prismatic reflector [m]	0.02...1.8; (Prismatic reflector Ø 30 E20004)	
Range adjustable	no	
Max. light spot diameter [mm]	120	
Light spot dimensions refer to	at maximum range	
Polarisation filter available	yes	
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]	37.4	
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.	

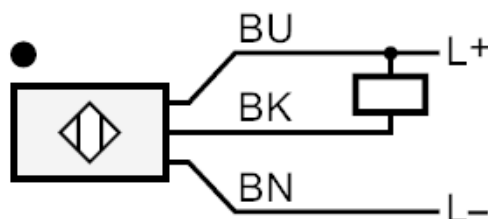
Retro-reflective sensor

O8P-DNKG/2,0M

Electrical connection

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

Connection

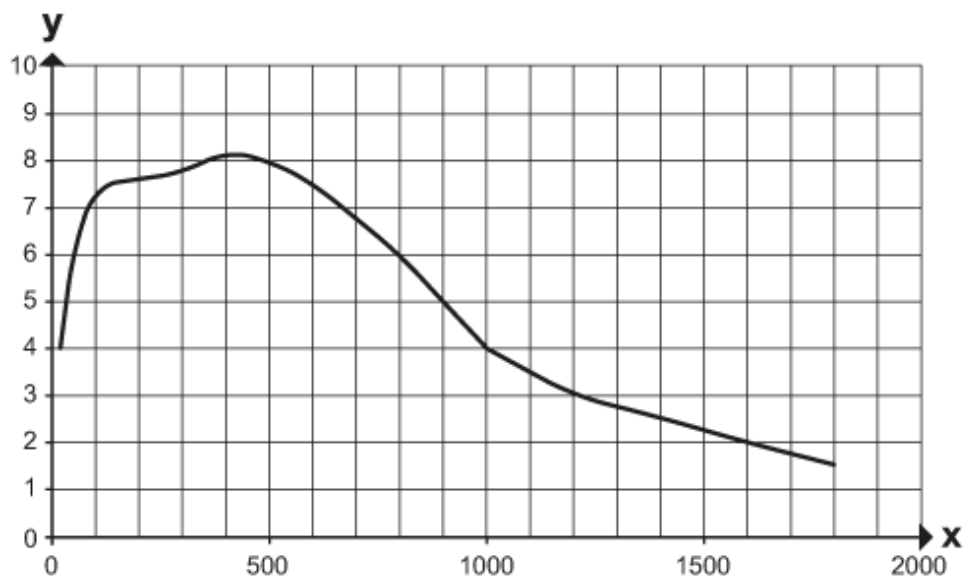


Core colours :

BN = brown
BK = black
BU = blue

Diagrams and graphs

excess gain graph



x: distance [mm]

y: excess gain factor