

**Photoelectric Sensor**  
**BOS 2K-NS-RD10-02**  
**Sn=50mm**  
**Diffuse**

**Common Data**

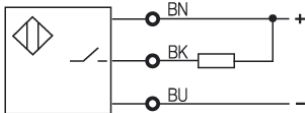
Series	2K
Sensortype	Diffuse
Switching frequency	800 Hz
Rated operating distance Sn in mm	50
Indication Switching element on	yes, yellow LED
Ambient temperature	-20...+50°C
On-delay	<0,6ms
Light	Red light, 660nm
Diameter of active zone	3,5mm at 50mm
Permissible ambient light	per EN 60947-5-2
Output function	light-on

**Mechanical Data**

Measurements	25,1 x 7,6 x 12,6
Shock	Halfsinus, 30gn, 11ms
Vibration	10...55Hz, 1,5mm Amplitude 3x2h
Housing material	ABS
Material of sensing face	PMMA
Degree of protection	IP67
Connection	Cable
Weight	18g
Type of Cable	PVC, 3x0,09mm <sup>2</sup>

**Electrical Data**

Current	DC
Switching function	normally-open
Output	NPN
Rated operational voltage Ue	24
Rated operational current Ie	<50mA
Supply Voltage	10...30V DC
Ripple	< 5% from UB
Frequency of Supply Voltage	DC
No-load supply current	<20mA
Voltage drop	≤2,5V
Short protection	yes
Protected against polarity reversal	yes



Utilization categories III  
 Insulation class III

Datasheet number:

Definitions see general catalog.  
 If not otherwise noted, ratings according to IEC 60947-5-2 (DIN EN60947-5-2)

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