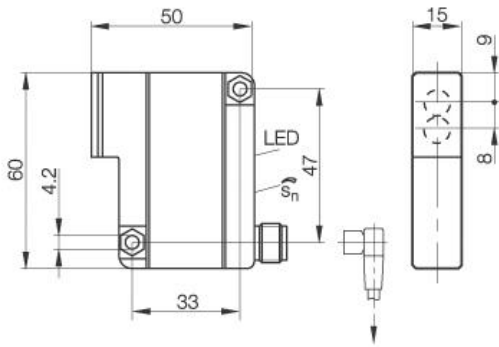


**Photoelectric Sensor**  
**BOS 35K-PS-1PD-S 4-C**  
**Sn=400mm**  
**Diffuse**



PX00073

**Common Data**

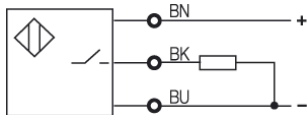
Series	35K
Sensortype	Diffuse
Switching frequency	100 Hz
Rated operating distance Sn in mm	400
asured operating distance Sa	adjustable
Repeat accuracy	< 5% from Sn
Indication Switching element on	yes, yellow LED
Ambient temperature	-5...+55°C
On-delay	< 5ms
Off-delay	< 5ms
Light	Infrared
Sensitivity Adjustment	Poti
Blind zone / min Reflector distance	1mm
Permissible ambient light	2000 Lux
Output function	light-on

**Mechanical Data**

Measurements	50x60x15
Shock	Halfsinus, 30gn, 11ms
Vibration	10...55Hz, 1,5mm Amplitude 3x2h
Housing material	Polyamid 12
Material of sensing face	PMMA
Degree of protection	IP67
Connection	Connector S4 (M12)
Weigth	40g

**Electrical Data**

Current	DC
Switching function	normally-open
Output	PNP
Rated operational voltage Ue	24V DC
Rated operational current Ie	200mA
Supply Voltage	10...30V DC
Ripple	max. 15% from UB
Frequency of Supply Voltage	DC
Voltage drop	<2,5V
Short protection	yes
Protected against polarity reversal	yes
Rated insulation voltage	250VDC
Output resistance	33kOhm
max. Load capacity	1µF



Utilization categories  
 Insulation class

Datasheet number:

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

Balluff GmbH  
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Datenblatt by CD-ROM - 04/2007

**BALLUFF**  
*sensors worldwide*