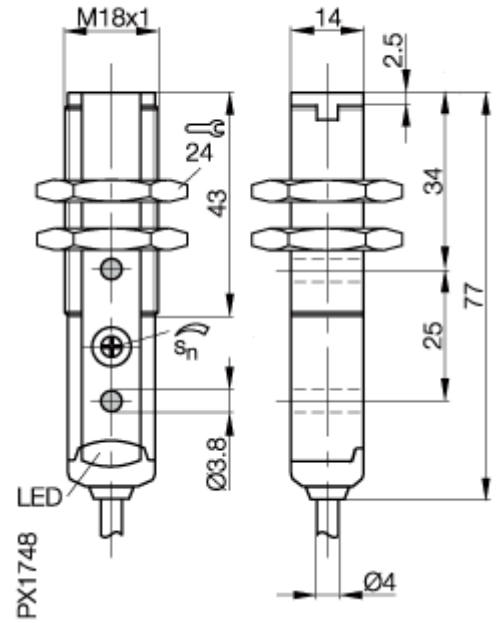
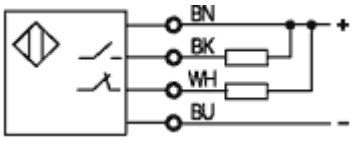
Optoelectronic Sensors
BOS 18KF-NA-1LOC-C-02

Diffuse
M18x1
Sn = 350 mm





Approvals CE, CURUS
Utilization categories DC13

If not differently indicated,
all values by IEC 947-5-2 (DIN EN60947-5-2)

Sensing distance measured with :
Kodak white card 200mm x 200mm, 90% reflection
Specifications subject to change

Balluff GmbH
Postfach 1160
73761 Neuhausen
Telefon (07158) 173-0
Telefax (07158) 5010

Common Data

Sensortype		Diffuse
Switching frequence		1,5 kHz
Rated operating distance Sn	mm	350
asured operating distance Sa	mm	50...350mm
Indication switching element		LED yellow
Indication special function		LED green
Ambient temperature	°C	-10...+50°C
On/Off-delay		333µs
Light		Laser, red, 650nm

Mechanical Data

Measurements BxHxT or DxT	mm	M18x77
Shock test (EN 60068-2-27)		Halfsinus, 30gn, 11ms
Vibration test (EN 60068-2-6)		10...55Hz, 1,5mm Amplitude 3x2h
Housing material		PBT
Material of sensing face		PMMA
Degree of protection	IP	IP67
Connection		Cable, 2m
Weight		75g
Type of cable		PVC, 4x0,14mm²

Electric Data

Current		DC
Switching function		normally-open/normally-closed
Output		NPN
Rated operational voltage Ue	V	24V DC
Rated operational current Ie	mA	100mA
Supply voltage	V	10...30V DC
Ripple	%	< 10% from UB
No-load supply current	mA	< 35
Voltage drop	V	< 2
Short protection		yes
Protectde against polarity rev		yes

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