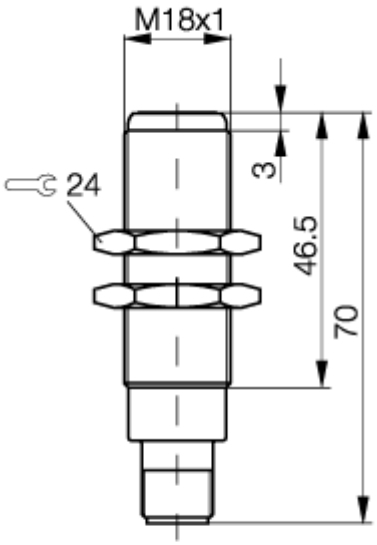
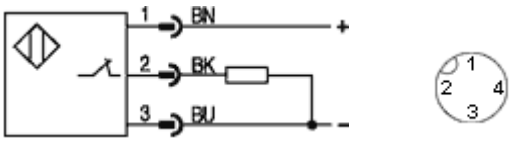
Optoelectronic Sensors
BOS 18E-PO-1YA-E5-D-S 4

Diffuse
M18x1
Sn = 100 mm



PX1045



Approvals

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 100mm x 100mm, 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		100 Hz
Rated operating distance Sn	mm	100
asured operating distance Sa	mm	80% from Sn
Repeat accuracy		< 5% from Sn
Hysteresis		< 10%
Indication switching element		yes, yellow LED
Ambient temperature	°C	-20...+75°C
On/Off-delay		< 5ms
Light		Red light
Blind zone / min reflectore distance		5 mm
Permissable ambient light	lux	2000

Mechanical Data

Measurements BxHxT or DxT	mm	M18x70
Shock test (EN 60068-2-27)		Halfsinus, 30gn, 11ms
Vibration test (EN 60068-2-6)		10...55Hz, 1,5mm Amplitude 3x2h
Housing material		stainless steel 1.4571
Material of sensing face		Glass
Degree of protection	IP	IP69
Connection		Connector S4 (M12)
Weight		40g
Recommended connector		BKS-S20E-4

Electric Data

Current		DC
Switching function		normally-closed
Output		PNP
Rated operational current Ie	mA	200mA
Supply voltage	V	10...30V DC
Ripple	%	< 10% from UB
No-load supply current	mA	<20mA
Voltage drop	V	<2,5V
Short protection		yes
Protectde against polarity rev		yes
Rated insulation voltage		250V AC
Output resistance		33kOhm
max. load capacity		1µF

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