

BALLUFF

sensors worldwide

Laser Diffuse BOS 18M

... with high-precision background suppression



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... with high-precision background suppression



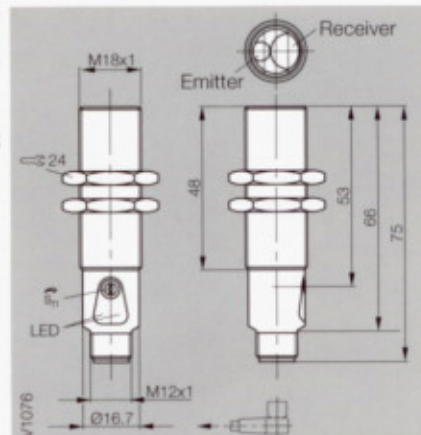
Laser Protection
Class 2

- Ideal for small parts detection, even objects as small as 0.1 mm diameter can be reliably detected
- 10-turn potentiometer for precise background suppression
- Visible laser light for easily setting the target
- Additional stability indicator using red LED

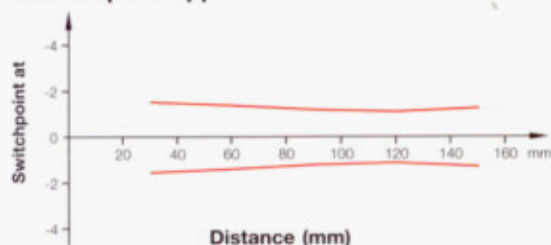


Housing size
Diffuse Range

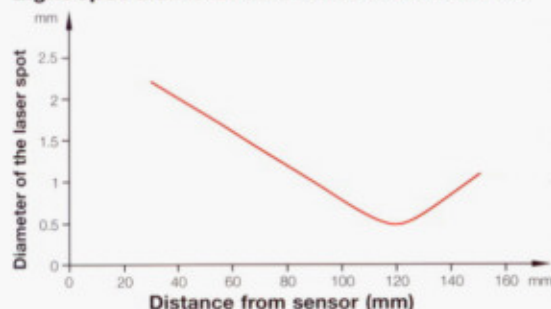
18M
30...150 mm



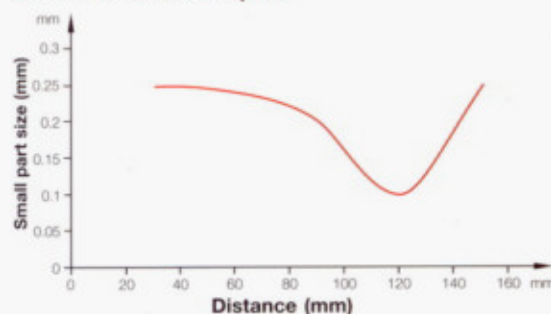
Turn-on point approach curve



Light spot diameter as a function of distance



Smallest detectible part



Diffuse

PNP HGA

BOS 18M-PSV-LH22-S4

Electrical data

Supply voltage U_E

10...30 V DC

Output current

100 mA

Switching output

PNP or NPN transistor

Output circuit

Light-on

Settings

10-turn potentiometer

Frequency of operating cycles f

500 Hz

Help function

Contamination output

Optical data

Emitter, light type

Laser, red light

Wavelength

670 nm

Indicator

Output function indicator

LED yellow

Stability indicator

LED red

Mechanical data

Connection

M12 connector, 4-pin

Housing material

Nickel plated brass

Optical surface

PMMA

Ambient data

Degree of protection per IEC 60529

IP 67

Polarity reversal protected

yes

Short circuit protected

yes

Ambient temperature range T_a

-5...+55 °C

Reference standard

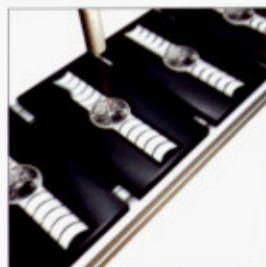
EN 60947-5-2

Diffuse values referenced to Kodak gray card 90 % reflective.



Connector orientation

Wiring diagrams



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