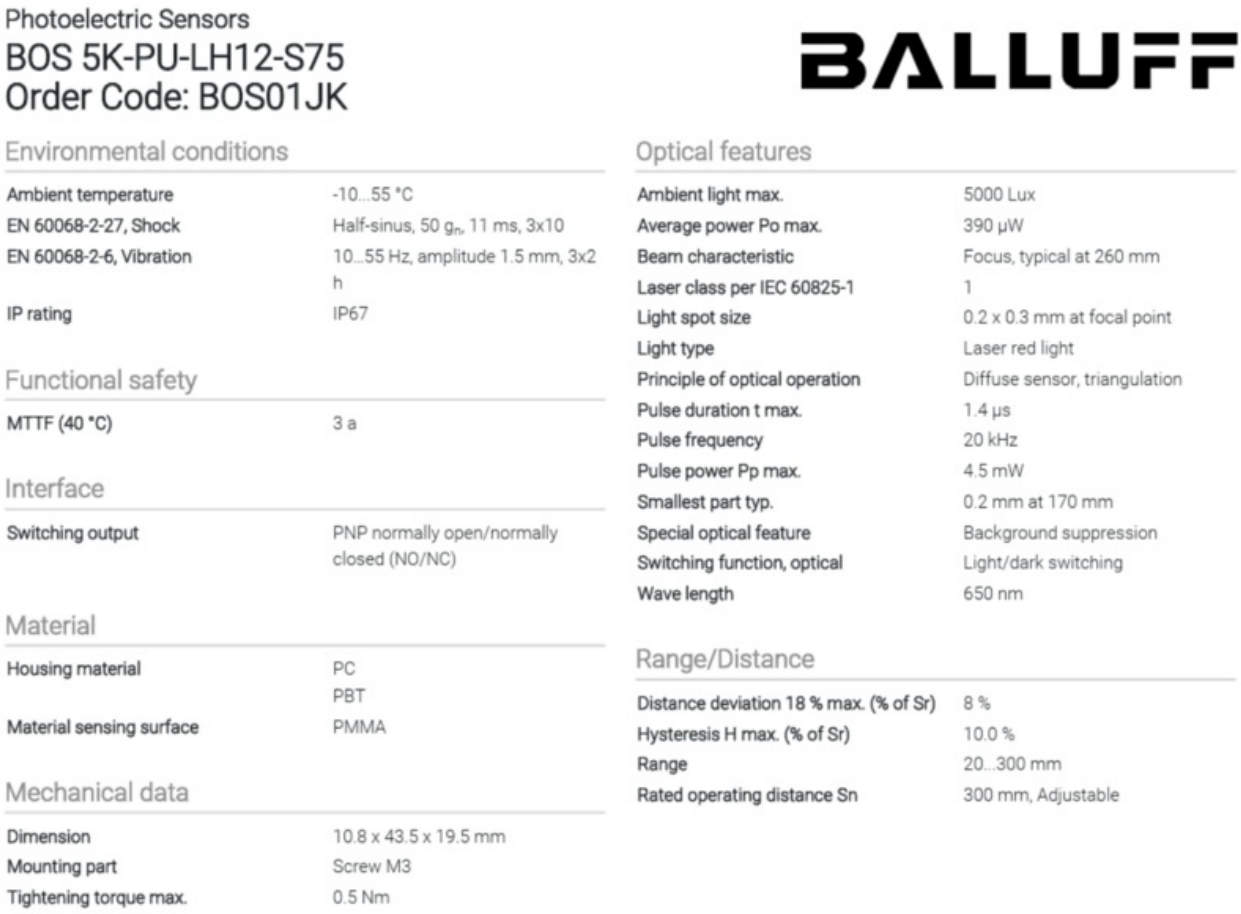
Fichier:E0000498 Datasheet.png



Photoelectric Sensors
BOS 5K-PU-LH12-S75
Order Code: BOS01JK

BALLUFF

Environmental conditions

Ambient temperature	-10...55 °C
EN 60068-2-27, Shock	Half-sinus, 50 g_n, 11 ms, 3x10
EN 60068-2-6, Vibration	10...55 Hz, amplitude 1.5 mm, 3x2 h
IP rating	IP67

Functional safety

MTTF (40 °C)	3 a

Interface

Switching output	PNP normally open/normally closed (NO/NC)

Material

Housing material	PC PBT
Material sensing surface	PMMA

Mechanical data

Dimension	10.8 x 43.5 x 19.5 mm
Mounting part	Screw M3
Tightening torque max.	0.5 Nm

Optical features

Ambient light max.	5000 Lux
Average power Po max.	390 µW
Beam characteristic	Focus, typical at 260 mm
Laser class per IEC 60825-1	1
Light spot size	0.2 x 0.3 mm at focal point
Light type	Laser red light
Principle of optical operation	Diffuse sensor, triangulation
Pulse duration t max.	1.4 µs
Pulse frequency	20 kHz
Pulse power Pp max.	4.5 mW
Smallest part typ.	0.2 mm at 170 mm
Special optical feature	Background suppression
Switching function, optical	Light/dark switching
Wave length	650 nm

Range/Distance

Distance deviation 18 % max. (% of Sr)	8 %
Hysteresis H max. (% of Sr)	10.0 %
Range	20...300 mm
Rated operating distance Sn	300 mm, Adjustable

Size of this preview:800 × 585 pixels.
Original file (1,322 × 967 pixels, file size: 306 KB, MIME type: image/png)

File history

Click on a date/time to view the file as it appeared at that time.

	Date/Time	Thumbnail	Dimensions	User	Comment
current	**15:46, 17 March 2025**		1,322 × 967 (306 KB)	Gareth Green (talk | contribs)	

You cannot overwrite this file.

File usage

The following page links to this file:

E0000498 and E0001526B Sensors

Metadata

This file contains additional information, probably added from the digital camera or scanner used to create or digitize it. If the file has been modified from its original state, some details may not fully reflect the modified file.

Horizontal resolution	37.79 dpc
Vertical resolution	37.79 dpc