



1) Emitter, 2) Receiver, 3) Optical axis



Basic features

Application	Vacuum (to 1 µPa)
Approval/Conformity	CE UKCA WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Optical sensor head
Reference base unit	BAE SA-OH-059-...
Series	R018V
Style	Square Connection 90°

Electrical connection

Cable length L	1.5 m
Conductor cross-section	32 AWG
Connection	Leads, 1.5 m, PFA
Number of conductors	4

Environmental conditions

Ambient temperature	-10...55 °C
IP rating	IP65

Interface

Switching output	for switching amplifier
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Remarks

Reference object (target): gray card, 100 x 100, 90 % remission, axial approach.
 For additional information, refer to user's guide.

Material

Housing material	Aluminium, Anodized
Material jacket	PFA
Material sensing surface	Epoxy
Surface protection	Anodized

Mechanical data

Dimension	13.5 x 3 x 13 mm
Mounting part	Screw M3

Optical features

Beam characteristic	Divergent
LED group per IEC 62471	Exempt Group
Light spot size	Ø 10 mm at 100 mm
Light type	microSPOT-LED red light
Principle of optical operation	Through-beam sensor
Smallest part typ.	0.2 mm
Wave length	650 nm

Range/Distance

Range	0 m...500 mm
Rated operating distance S_n	500 mm

Photoelectric Sensors
BOH TK-R018V-002-TF-01,5
Order Code: BOH0084



Opto Symbols

