

1) Optical axis emitter, 2) Optical axis receiver



Basic features

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	R018
Style	Square Straight connection

Electrical connection

Cable diameter D	1.80 mm
Cable length L	1 m
Connection	Cable with connector, M8x1-Female, 1 m, PUR

Environmental conditions

Ambient temperature	-10...55 °C
IP rating	IP67

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, natural
Material jacket	PUR
Material sensing surface	Glass
Surface protection	anodized, natural

Mechanical data

Dimension	13 x 3 x 13.5 mm
Mounting part	Screw M3

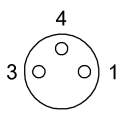
Optical features

Beam characteristic	divergent, max. 3.5°
LED group per IEC 62471	Exempt Group
Light spot size	Ø 10 mm at 50 mm
Light type	microSPOT-LED red light
Principle of optical operation	Diffuse sensor, energetic
Smallest part typ.	0.2 mm
Wave length	650 nm

Range/Distance

Range	3.5...60 mm
Rated operating distance S_n	60 mm

Connector Drawings



Opto Symbols

