

1) Optical axis emitter, 2) Optical axis receiver



Basic features

Approval/Conformity	CE WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Optical sensor head
Reference base unit	BAE SA-OH-029-...
Series	R027
Style	Square Straight connection

Electrical connection

Cable diameter D	1.80 mm
Cable length L	1 m
Connection	Cable with connector, M8x1-Male, 1.00 m, PUR

Environmental conditions

Ambient temperature	-10...55 °C
Protection degree	IP67

Material

Housing material	Aluminum, anodized, natural
Material jacket	PUR
Material sensing surface	Glass
Surface protection	anodized, natural

Mechanical data

Dimension	15 x 4.8 x 18 mm
Mounting	Screw M3

Optical features

Beam characteristic	divergent, max. 2.5°
LED group per IEC 62471	Exempt Group
Light spot size	Ø 8 mm at 100 mm
Light type	microSPOT-LED red light
Principle of optical operation	Diffuse sensor, energetic
Wave length	645 nm

Output/Interface

Switching output	for switching amplifier
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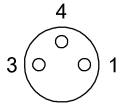
Range/Distance

Range	3.5...100 mm
Rated operating distance Sn	100 mm

Remarks

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

Connector Drawings



Opto Symbols

