

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



### Basic features

<b>Basic standard</b>	IEC 60947-5-2
<b>Principle of operation</b>	Optical sensor head
<b>Reference base unit</b>	BAE SA-OH-059-...
<b>Series</b>	M04
<b>Style</b>	Cylinder Straight optics

### Electrical connection

<b>Cable diameter D</b>	1.80 mm
<b>Cable length L</b>	1 m
<b>Connection</b>	Cable with connector, M8x1-Female, 1 m, PUR
<b>Contact, surface protection</b>	Gold plated

### Environmental conditions

<b>Ambient temperature</b>	-10...55 °C
<b>IP rating</b>	IP65

### Interface

<b>Switching output</b>	for switching amplifier
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### Remarks

For additional information, refer to user's guide.

### Material

<b>Housing material</b>	Nickel-plated brass, nickel-plated
<b>Material jacket</b>	PUR
<b>Material sensing surface</b>	PMMA
<b>Surface protection</b>	nickel-plated

### Mechanical data

<b>Dimension</b>	Ø 4 x 12 mm
<b>Mounting part</b>	M4 thread M4 nut

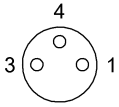
### Optical features

<b>Beam characteristic</b>	Divergent
<b>LED group per IEC 62471</b>	Exempt Group
<b>Light spot size</b>	27 x 27 mm at 100 mm
<b>Light type</b>	LED, red light
<b>Principle of optical operation</b>	Through-beam sensor
<b>Smallest part typ.</b>	0.3 mm
<b>Wave length</b>	665 nm

### Range/Distance

<b>Range</b>	0...2000 mm
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## Connector Drawings



## Opto Symbols

