

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



**Basic features**

<b>Approval/Conformity</b>	CE UKCA WEEE
<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>	M6
<b>Style</b>	Cylinder Straight optics

**Electrical connection**

<b>Cable diameter D</b>	1.80 mm
<b>Cable length L</b>	2 m
<b>Connection</b>	Cable with connector, M8x1- Female, 2 m, PUR

**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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**Material**

<b>Housing material</b>	Brass, nickel-plated
<b>Material jacket</b>	PUR
<b>Material sensing surface</b>	Glass
<b>Surface protection</b>	nickel-plated

**Mechanical data**

<b>Dimension</b>	Ø 6 x 17 mm
<b>Mounting part</b>	Nut M6x0.5

**Optical features**

<b>Average power Po max.</b>	390 µW
<b>Beam characteristic</b>	Collimated
<b>Laser class per IEC 60825-1</b>	1
<b>Light spot size</b>	Ø 4.5 mm at 2 m
<b>Light type</b>	Laser red light
<b>Principle of optical operation</b>	Through-beam sensor
<b>Pulse duration t max.</b>	70.0 µs
<b>Pulse frequency</b>	2 kHz
<b>Pulse power Pp max.</b>	0.3 mW
<b>Smallest part typ.</b>	0.05 mm
<b>Wave length</b>	665 nm

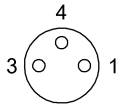
**Range/Distance**

<b>Range</b>	0...4 m
<b>Rated operating distance Sn</b>	4000 mm

## Remarks

For additional information, refer to user's guide.

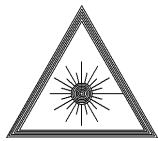
## Connector Drawings



## Opto Symbols



## Warning Symbols



LASER CLASS 1 per IEC 60825-1