

**OYQ30100 / OYQ30103**

One-way light barriers

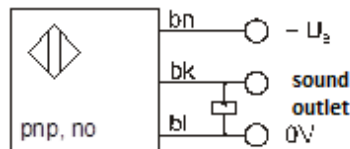


**Electrical connection of the transmitter**



**bn= brown bl= blue**

**Electrical connection of the receiver**



**bn= brown bl= blue bk=black**

**Installation**

Install the transmitter and the receiver so that both devices are in one level. The light beam of the transmitter must hit the centre of the receiver optics.

If the light beam is interrupted by an object, the switching output of the receiver must be activated.

For easier mounting, the mounting brackets AO000077 and AO000078 are available.

**LED display**

There is a red and a green LED on the receiver.

The red LED signals that the switching output is active.

The green LED indicates that there is a safe switching process. It should be on when not switched on as well as when switched on.

If the green LED is not on or only blinks when the output is not switched, the transmitter and receiver must be readjusted to each other.

If the green LED is not on when the output is switched or only blinks, the object is too small.

**Technical Data**

	<b>OYQ30100</b>	<b>OYQ30103</b>
Operating voltage	12 ... 24V DC	
Max. switching current	50mA	
Max. switching frequency	1kHz	
Range	150mm	1000mm
Smallest recognisable part*	∅ 1mm	∅ 2mm
Repeatability	≤ 0.05mm	
Ambient temperature	-25 ... +55°C	
Protection class	IP 67 according to EN 60529	
Connection	2m cable	
Transmitting element	LED red, clocked	

\* only non-transparent objects!