

## INSTALLATION AND COMMISSIONING INSTRUCTION

# Optical smoke detector

### Optical smoke detector with mounting base



**Part.-No.:** 60.300

**Application:** for the automatic early detection of fire and controlling of the „Emergency OPEN“ function via a detector line of RWA Control Units.

**Measuring element:** photo electric / scattered light principle

**Operating voltage:** 8,5 – 33 V DC

**Standby current:** < 100 µA

**Housing:** Surface mounting, plastic (ABS), pearl white

**Dimensions (ØxH):** Ø100 x 50 mm

**Connections:** Screw terminals 1,0 mm<sup>2</sup> (rigid wire)

**Protection rating:** IP23D

**Display:** Alarm LED

**VdS certification no.:**  
G 204039



**Feature / Equipment:**

- Fire algorithms to avoid false alarms, automatic alarm threshold tracking
- According to EN 54-7, connection to the detector line input

#### Assembly:

- Mount detector only in horizontal position.
- Produce drill holes for two screws M5 - according to the hole layout from the smoke detector pedestal.
- Mount the smoke detector pedestal with two screws M5 at the mounting surface.
- Guide detector into locking position and turn it to the right.

#### Maintenance:

- Check smoke detector regularly with testing gas. Adhere to instructions for detector test.
- **Yellow** blinking of the **LED**-display indicates a fault.
- Clean dirty detectors with a moist cloth or a little rubbing alcohol. Replace if necessary.
- For maintenance and change of the detector, note the current regulations (e.g. DIN 14675).



Remove the dust protection cap only with start-up.

The connection depends on the Control Unit.

**NOTE**

The smoke detector must be disposed in accordance with legal regulations.



Warranty claims require proper and professional assembly, installation and maintenance in accordance with national regulations and manufacturer's instructions of the RWA control unit.

The safety instructions in the supplied product documentation are to be observed.

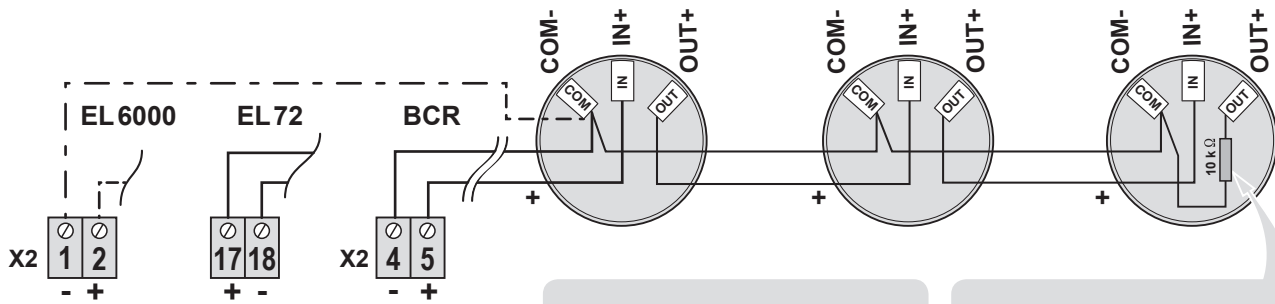


Strictly observe the information given in this and in the instructions for installation of the RWA control unit, when mounting the **optical smoke detector**.

Details can be found on our website [www.btr-hamburg.de](http://www.btr-hamburg.de)

Keep this instruction over the lifetime of the product.

## Connection optical smoke detector (VdS-testet)



Connect 10 kΩ resistor at terminals + / - of unused detector lines!

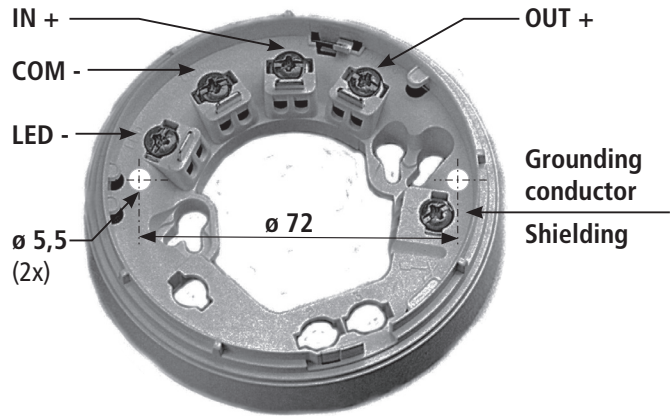
Insert 10 kΩ termination resistor in the last or only detector.

**Connection smoke detector**  
Part.-No.: 60.300

**!** A 15 kΩ resistor must be used when connecting to the EL6000!

LED display		
Display		State
red lights	- continuous	alarm triggered
red blinks	- 1x per second	test mode
yellow blinks	- every 4 seconds	fault
yellow blinks	- 1x per second	quiescent value adjustment Degree of contamination: 75 %

**Important note for detector test:**  
If the voltage of the detector line is interrupted by disconnecting and connecting or by pressing the reset button in the control unit, the detectors react 4 minutes later to the checking with testing gas. The test mode is indicated by a red blinking of the LED-display.  
A yellow blinking every 4 seconds indicates a detector fault (if necessary, replace detector).



**Grounding conductor** is not required for connection at the BTR Control Units.

[www.btr-hamburg.de](http://www.btr-hamburg.de)

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