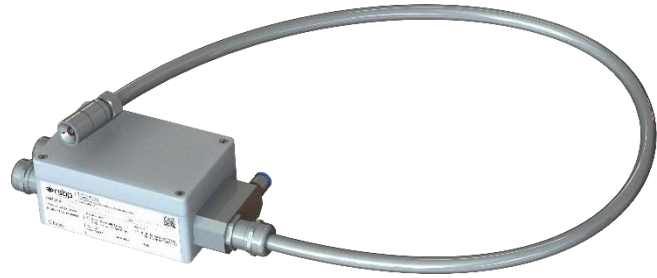


# INFRARED (IR) FLAME DETECTOR

## LumEx4

It is a detector working on the principle of measurement and evaluating optical infrared radiation in the area of about 950nm.

The detector unit and the detector head are installed in a metal housing. The detector is connected via a multi-core shielded cable (four-wire or six-wire) through the transition box to the control panel, or to other detectors on the detection line.



The detector is set up and parameterized via a communication converter using software from a PC or laptop. All setting and parameterization are carried out exclusively by RSBP or its authorized representative. For proper operation of the detector, blowing the detector with compressed air prescribed parameters (provided by the customer) is required to ensure the cleanliness of the cover glass

TECHNICAL PARAMETERS	
Power voltage	18 to 27 V DC
Operating voltage	8 to 27 Vss
Power input	max. 20 mA
Protection	polyswitch 200 mA, varistor 31V/ 8,6J
Power loss	□ 0,25 W
Operating temperature	- 40°C to + 200°C
IR scanning	450 – 1100 nm (peak 880 nm)
Temperature measurement	- 40°C to + 80°C, □ 3°C
Output switching	Relay with coupled resistor $U_{max} = 48 V_{ss}$ , $I_{max} = 0,25 mA$
Response time	$t = T_s \times (C_s + 1) + T_r + T_f$ ; □ 2ms
Communication interface	CAN (ISO 11898), 250 kbps, CAN open (CiA DS 301)
Compressed air connection	Push-in fitting for 8 mm hose connection
Parameters of compressed air for blow – consumption	200 l/min - dry
Non-explosion design – dust	$\text{Ex} \text{II} 1D \text{ Ex op is } T195^\circ\text{C Da} - \text{sensor}$ $\text{Ex} \text{II} 2D \text{ Ex tb IIIC } T80^\circ\text{C Db} - \text{evaluation part}$
Non-explosion design – gas	$\text{Ex} \text{II} 1G \text{ Ex op is IIB } T3 \text{ Ga} - \text{sensor}$ $\text{Ex} \text{II} 3G \text{ Ex ec IIB } T4 \text{ Gc} - \text{evaluation part}$
Temperature resistance	40°C to + 80°C – evaluation part 40°C to + 200°C – sensor
Optional accessories	Adapter with use up to 500°C