Space Mounting Air Quality Sensor
Selectable Output 0/10Vdc or 4-20mA
RLQ

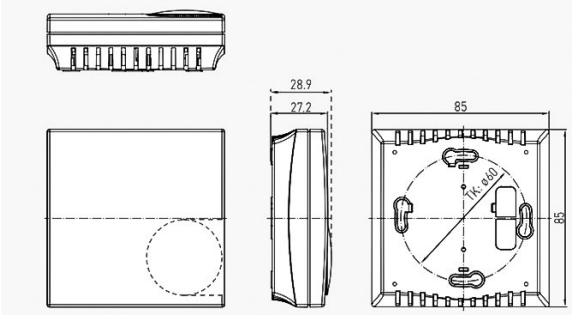
Description:

The self-calibrating microprocessor-controlled space air quality sensor is used to determine the air quality on basis of a mixed gas sensor/VOC sensor.
It is used to measure the air quality for quantitative evaluation of room air pollution with contaminating gases.
The air quality sensor does not trace concentrations of individual gases, but assesses the mixed gas concentration.
Detectable gases: mixed gas, vapors of VOCs, cigarette smoke, automobile exhaust gases, human exhalation, combustion smoke (from wood, paper, plastics).
The sensor's lifetime depends on the type of burden and gas concentration.

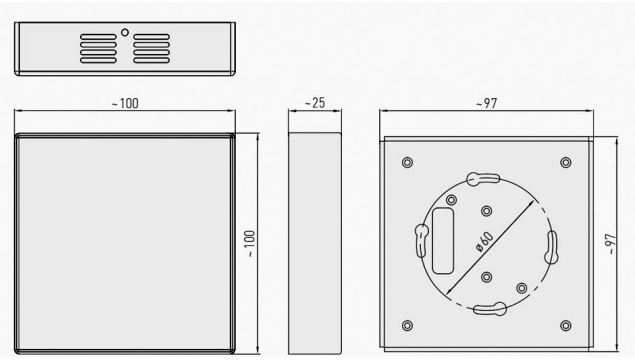
Technical Specification:

Power Supply:	24V AC / DC (± 10%)
Power Consumption:	< 1.5W / 24V DC typical < 2.9VA / 24V AC typical Peak Current 200mA
Sensor:	VOC sensor (metal oxide), with automatic self-calibration (VOC = volatile organic compounds)
Measuring Range:	0…100% air quality; referred to calibrating gas; multi-range switching (selectable via DIP switches) VOC sensibility low, medium, high
Output:	0 – 10V (OV = clean air, 10V = contaminated air) or 4…20mA (selectable via DIP switches; switch point adjustable from 0…100% of output signal).
Measuring Accuracy:	± 20% of final value (referred to calibrating gas)
Service Life:	> 60 months
Gas Exchange:	By diffusion
Warm-up Time:	Approx. 1 hour
Ambient Temperature:	0…+50˚C
Response Time:	Approx. 1 minute
Electrical Connection:	0.14 – 1.5mm², via terminals
Enclosure:	Plastic, material ABS, colour pure white (similar to RAL 9010), stainless steel enclosure optional to order
Dimensions:	85 x 85 x 27mm (Baldur 1) 100 x 100 x 25mm (Stainless Steel)
Installation:	Wall mounting or on in-wall flush box, Ø55mm, base with 4-hole for mounting on vertically or horizontally installed in-wall flush boxes for cable entry from the back, with predetermined breaking point for on-wall cable entry from top / bottom in case of plain on-wall installation.
Protection Class:	III (according to EN 60730)
Protection Type:	IP30 (according to EN 60529)
Standards:	CE conformity, electromagnetic compatibility according to EN 61 326, EMC Directive 2014 / 30 / EU, Low Voltage Directive 2014 / 35 / EU

Dimensions for Baldur 1 Enclosure:



Dimensions for Stainless Steel Enclosure:



Order Code:

RLQ	Space Mounting Air Quality Sensor 0/10Vdc or 4-20mA Output

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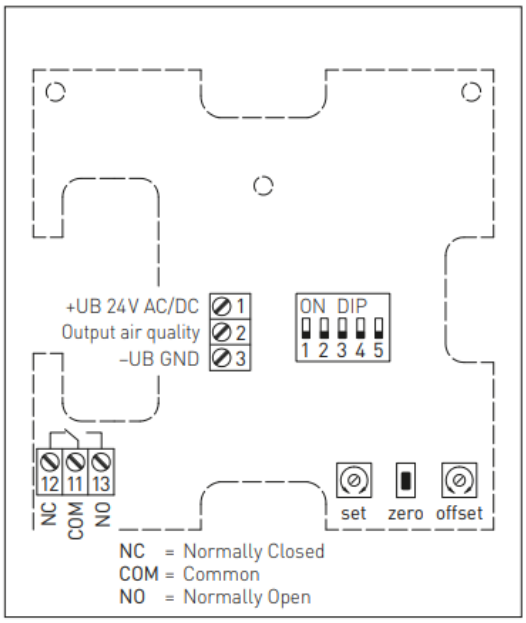
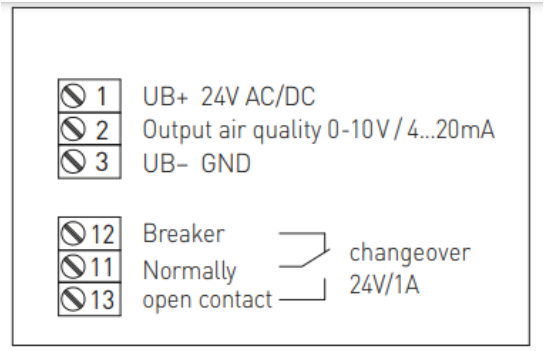
Schematic Diagram:



DIP Switches		RLQ
VOC sensitivity	DIP 1	DIP 2
LOW	OFF	OFF
MEDIUM (default)	ON	OFF
HIGH	OFF	ON
VOC automatic zero point		DIP 3
Deactivated		OFF
Activated (default)		ON
Output		DIP 4
Voltage 0 - 10V (default)		OFF
Current 4...20mA		ON

Connecting Diagram:



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