

Duct Mounting Air Quality Sensor, Selectable Output 0/10Vdc or 4-20mA KLQ

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Description:

The self-calibrating microprocessor-controlled duct 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, vapours 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.



Power Supply: 24V AC / DC (± 10%)
Power Consumption: < 1.5W / 24V DC typical
< 2.9VA / 24V AC typical

< 2.9VA / 24V AC typica 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: -10...+60°C

Response Time: Approx. 1 minute, minimum flow

rate 0.2—0.5m/s

Electrical Connection: 0.14 – 1.5mm², via terminals **Enclosure Dimensions:** 72 x 64 x 37.8mm (Tyr 1 without

display)

Cable Gland: M 16 x 1.5, including strain relief,

exchangeable, max. inner diameter 10.4mm

Protective Tube: Pleuroform™, material polyamide

(PA6), with torsion protection, Ø 20mm, NL = 202.5mm vmax = 30m/s (air)

Process Connection: By mounting flange, plastic (included in the scope of delivery)

III (according to EN 60730) IP65 (according to EN 60529)

Standards: CE conformity,

Protection Class:

Protection Type:

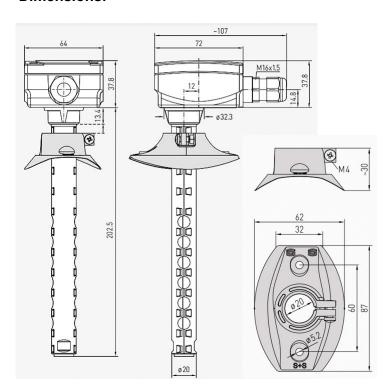
electromagnetic compatibility to

EN 61 326, EMC Directive

2014 / 30 / EU



Dimensions:



Order Code:

KLQ Duct Mounting Air Quality Sensor

0/10Vdc or 4-20mA Output

EC Products Limited

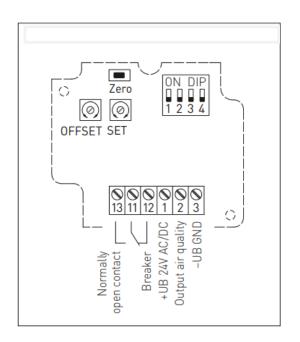
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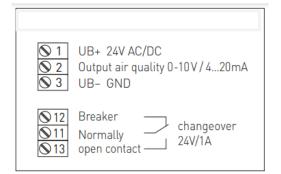
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Schematic Diagram:

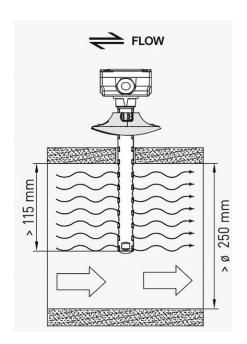


DIP Switches		KLQ
VOC sensitivity	DIP 1	DIP 2
LOW	OFF	OFF
MEDIUM (default)	ON	OFF
HIGH	OFF	ON
VOC automatic zero point		DIP 3
Deactivated		OFF
Activated (default)		ON
Output		DIP 4
Voltage 0 - 10V (default)		OFF
Current 420mA		ON

Connecting Diagram:



Mounting Diagram:



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