

Venturi air duct detector for IQ8Quad

- Air duct detector using the Venturi principle
- Special IQ8Quad air duct detector without ionisation sensor
- Full integration into the loop
- Simple commissioning and programming via tools 8000
- Simple installation and small maintenance expense
- Improved aerodynamics through new Venturi pipes
- Venturi pipes with a length of 0.6m to 2.8m for air duct systems with diameters of 0.6 to 2.7m
- Simple maintenance via built-in maintenance holes in the air duct detector
- Optional relay base available



The air duct detector (DSD): all-round protection at small expense

Unfortunately air ducts do not only guarantee fresh air but in the event of fire can also quickly deliver toxic smoke from the fire source to distant areas via the exhaust air system. Therefore air duct systems must be permanently monitored. The air duct detector offers effective protection at small expense.

Simple installation and maintenance

An efficient and loop compatible air duct detection system can be operated with only small installation and maintenance costs. The module is mounted to the outside of the air duct. A Venturi pipe (Part nos. 781446, 781447 or 781448) is inserted into the duct and delivers air from the duct through the detection chamber of the detector back to the duct. An air flow indicator monitors whether there are any air streams.

Via the integrated maintenance hole at the transparent module front, test gas can be easily applied from the inside without opening the module. Thus, cost-effective and timely maintenance and inspection can be performed.

If the air duct detector is installed in highly contaminated areas, an optional filter can be inserted into the air duct module so that premature detector contamination can be avoided. At the same time, long operation times can be achieved without having to replace the detector. In order to control external components, the optional relay base (Part no. 805591) can be integrated into the air duct module.

The IQ8Quad OT^{blue} DSD

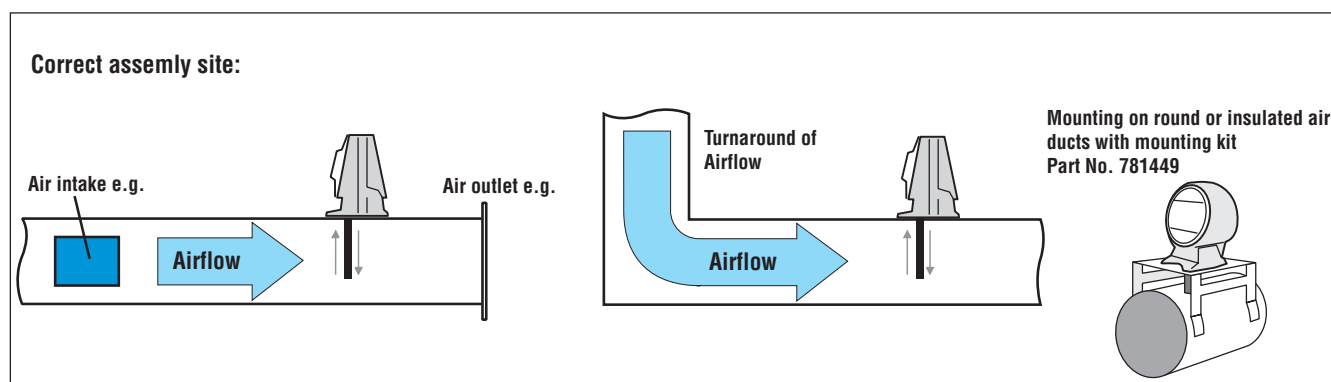
The new air duct detector is specially designed and approved for operation under air duct conditions. Through its innovative detection technology based on IQ8Quad OT^{blue}, the detector is capable of reliably detecting very small particles without being provided with an ionisation sensor. The IQ8Quad OT^{blue} DSD can be easily integrated into the IQ8 Fire Alarm System via esserbus and powered loop. With the tools 8000 programming and service software solution, the module can be easily commissioned.

Improved aerodynamics

In addition, new air duct pipes have been developed. Sophisticated design allows optimum usage of air streams within the channel in order to guarantee optimum detection with the IQ8Quad OT^{blue} DSD.



Venturi pipe for IQ8Quad air duct module



Functions and examples for correctly installing the DSD

Technical data

Venturi air duct module for IQ8Quad detector

Material	ABS plastic
Colour	grey
Type of protection	IP 54
Weight	800g
Dimension (W x H x D)	180 x 235 x 183mm

IQ8Quad OT^{blue} air duct detector

Operating voltage	9V DC to 42V DC
Quiescent current @ 19V DC	50µA
Quiescent current @ FACP battery	0.20mA @ 27.5 V / 0.28mA @ 42V
Application temperature	-20°C to +50°C
Detector specification	EN 54-7
Alarm display	red LED, flashing
Air velocity	1 to 20m/s
Storage temperature	-25°C to +75°C
Air humidity	95 % rel. humidity (w/o condensation)
Material	ABS
Colour	white (similar RAL 9010)
Weight	approx. 110g
Dimensions (base included)	Ø = 117mm, H = 62mm
VdS approval	applied

Order information

Part No.

Venturi air duct module for IQ8Quad OT-DSD (Part no. 802379)	781443
IQ8Quad OTblue DSD (Duct Smoke Detector)	802379
Spare filter for construction set 781443	781444
Venturi tube 0.6m for IQ8Quad air duct construction set 781443	781446
Venturi tube 1.5m for IQ8Quad air duct construction set 781443	781447
Venturi tube 2.8m for IQ8Quad air duct construction set 781443	781448
Mounting set for round and insulated air ducts	781449
Weather protection housing for air duct construction set 781443	781445
Standard detector base for IQ8Quad	805590
Detector base with relay contact for IQ8Quad	805591

For further order information please refer to our "Fire Alarm Technology" product line catalogue.