

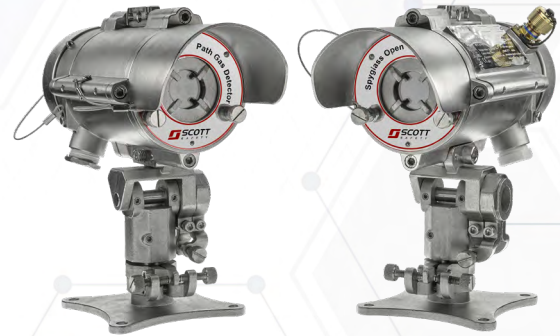


THE OPEN PATH DETECTOR FOR DETECTION OF GASES OVER LONG DISTANCES.

The SafEye open path detector detects hydrocarbons by analysing atmospheric absorption and comparing it with a zone that is not affected by the presence of gas.

The open path detector consists of an infrared transmitter and an infrared receiver which can be placed up to 200 metres apart.

The SafEye detection system can replace up to 20 fixed-point gas detectors. It will help you optimise your investment and maintenance costs. There are just two detectors to install, keeping maintenance costs to a minimum, and just one consumable with a long service lifetime to be replaced periodically.



TECHNICAL DATA

Size	Detector/source: 10.5 x 5.1 x 5.1 in. (26.7 x 13.0 x 13.0 cm) Tilt mount: 4.7 x 4.7 x 5.5 in. (12.0 x 12.0 x 15.8 mm)
Weight	Detector/source: 11 lb. (5 kg) Tilt mount: 4.2 lb. (1.9 kg)
Protection Class	IP66 and IP68, NEMA 250 6P
Output Interfaces	0-20 mA current output RS-485 interface-Modbus® compatible HART®
Operating temperature	-67 to +149 °F (-55 to +65 °C)
Humidity	0-95% RH, non condensing
Power supply	24 Vdc nominal (18-32 Vdc)
Consumption	Detector: 250 mA (300 mA peak) Source: 250 mA (300 mA peak)
Approvals	ATEX and IECEx: Ex II Z (2)G D, Ex db eb ib [Ib Gb] IIB + H2 T4 Cb Ex tb IIIC T135 °C Db Ta = -55 °C to +65 °C SIL2 per IEC61508 (TUV)

SPECIFICATIONS

Detection Range	7-20m	15-40m	35-100m	80-200m
Detected gas	C1-C8 selective gases			
Response time	<3 seconds (T90<10s)			
Immunity to false alarm	Not influenced by solar radiation, hydrocarbon flames, and other external infrared radiation sources			
Sensitivity range	0-5 LEL.m methane and propane 0-8 LEL.m ethylene			
Displacement misalignment tolerance	±0.5 degrees			
Drift	±7.5 percent of the reading or ±4 percent of the full scale (whichever is greater)			
Minimum detectable level	0.15 LEL.m			
Heated optics	To eliminate condensation and icing on the window			
Warranty	Three years			

HOW DOES OPEN PATH GAS DETECTION WORK ?

