

Pillard Smokecheck™

Smoke detection in tunnels



Maximize your road tunnels safety

- Easy installation and maintenance
- Accurate and comprehensive smoke detection

Pillard Smokecheck™ is Fives' proven and reliable solution for smoke detection in road tunnels

Thanks to its optical system, Pillard Smokecheck™ detects the smoke particles level. Based on Fives' ultimate technology, Pillard Smokecheck™ ensures a high precision of smoke detection in order to prevent any incident - fire or burning car.

ACCURATE AND COMPREHENSIVE SMOKE DETECTION

Pillard Smokecheck™ is composed of a measuring unit and a reflector installed within a distance of 50 meters away from each other. The reflector sends back the laser beam to the measuring unit for the smoke level measure. An alarm is immediately triggered when smoke level reaches an abnormal threshold.

Pillard Smokecheck™ operates even in blind zones thanks to the detection over a great distance, thus providing a comprehensive mapping for accurate smoke location.

EASY INSTALLATION AND MAINTENANCE

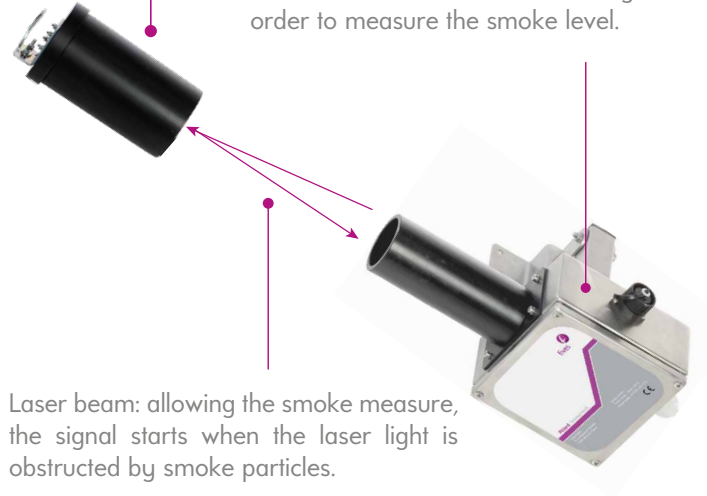
Provided with a remote control, Pillard Smokecheck™ can be installed in two different ways, either emitter and reflector on the same side of the tunnel, or on each side of it. The maintenance is easy - cleaning the lens with a soft tissue twice a year is enough.



Pillard Smokecheck™ remote control

Reflector: emitted from the detector, the laser beam is sent back to the photodiode no matter where the incident angle is.

Detector: composed of a photodiode, the laser beam is converted into a signal in order to measure the smoke level.



Laser beam: allowing the smoke measure, the signal starts when the laser light is obstructed by smoke particles.

Technical features

Technology	Photometric
Power supply	24V (+10%/-15%)
Power consumption	10VA
Measuring range	0-3E/m
Measuring scale	0 to 100%
Display resolution	0.1%
Accuracy	± 0.001E/m
Linearity / drift	< ± 5% of the measure per year
Detection threshold	0.001E/m
Response time	< 1s
Damping	1 to 120s adjustable
Analog outputs	4 - 20mA (500Ω max.)
Logic outputs	2 threshold relays 1 alarm relay
Materials	Galvanised steel (stainless steel optional)
Protection rating	IP65 (as per EN60529)
Shock resistance index	IK07
Dimensions	160 x 80 x 60mm
Weight	0.3kg
Material	ABS
Operating conditions	
Temperature	-20°C to +50°C
Pressure	700 to 1,300hPa
Humidity	5 to 95%