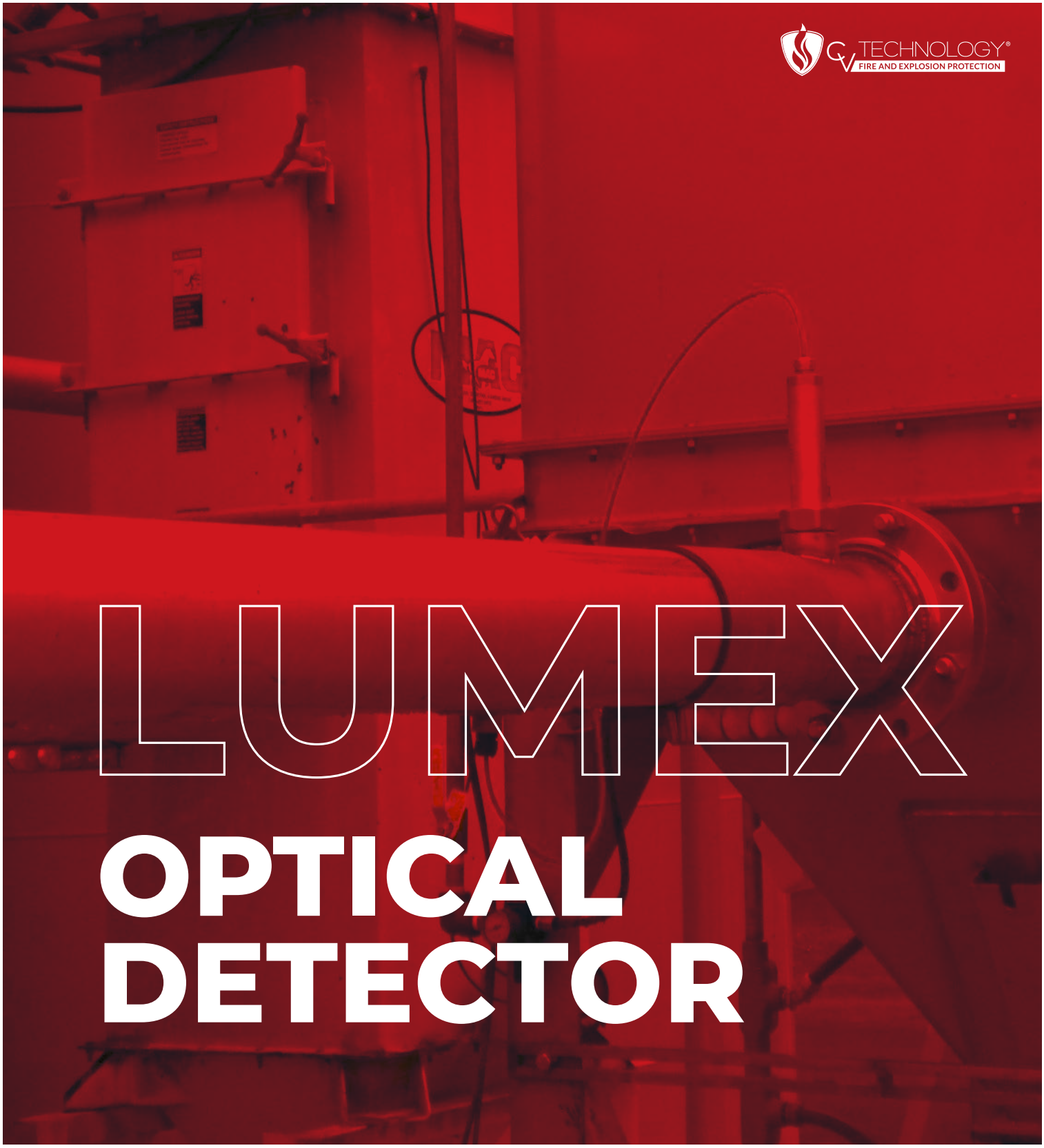


Interceptor® Optical Detection | Lumex®

The LumEx® optical detector is an infrared detector designed for detecting explosions or flame propagations.

LumEx® detectors are often used for detection purposes on isolation applications and bucket elevator suppression solutions. The detector features two IR detection sensors that react to flame. The IR sensors are less sensitive to light sources compared to traditional optical detectors which limits false readings. Each LumEx® detector is provided with a welding adaptor that includes an air sweep connection. The air sweep connection is meant to keep the lens clear of particulates, and the detector has an internal self-checking function to alarm when cleaning is needed. LumEx® detectors also have the ability to record a data log of events including activations and faults.

Chemical suppression and isolation systems are designed for use in almost any process handling combustible dust.

The Interceptor®-HRD system can be used for pneumatic conveying systems, dust collection systems, cyclones, mills, dryers, conveyors, and storage vessels.

FEATURES

NFPA 69 Compliant

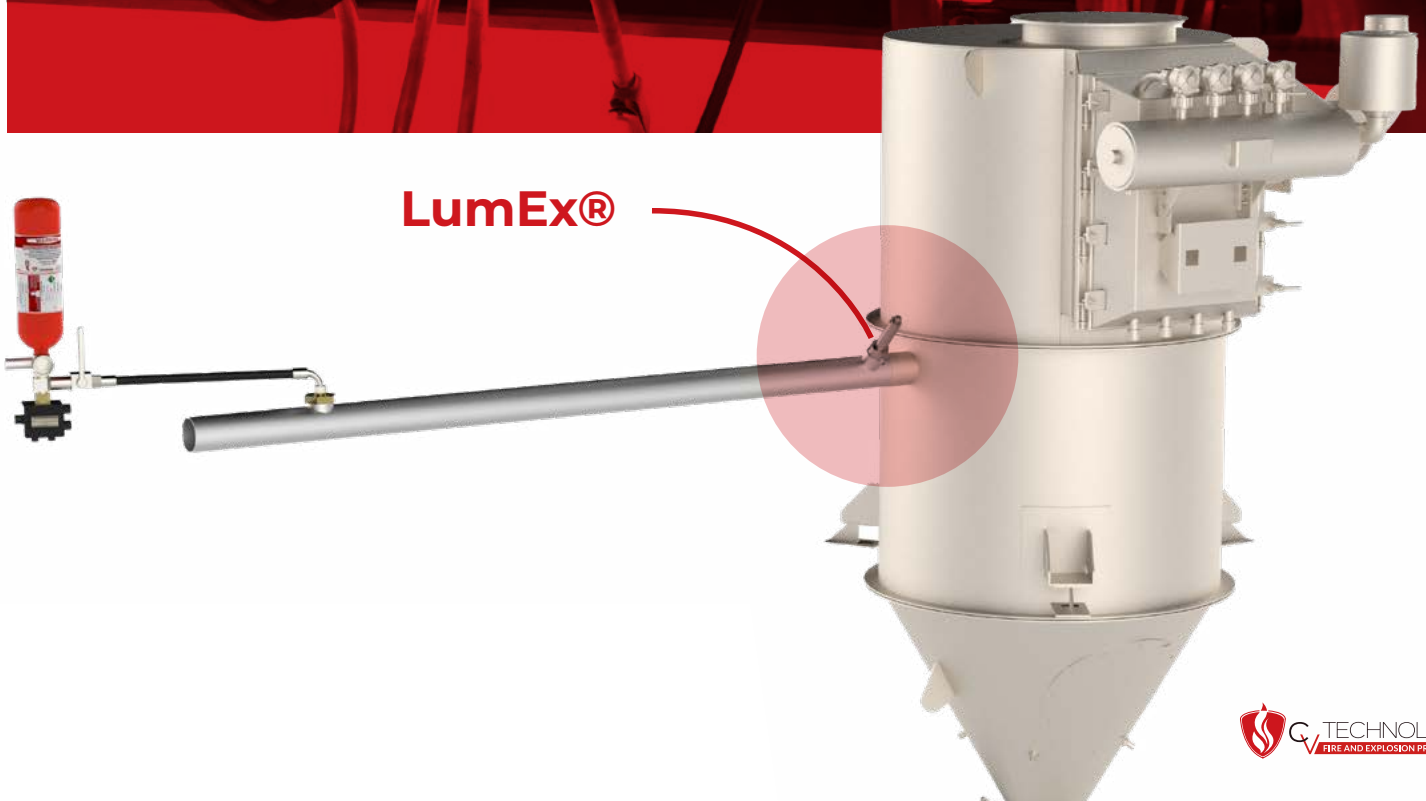
The LumEx® Detector is a compliant solution in NFPA 69 and is compliant for FM 7-76. LumEx® has an ATEX approval for the detection of a variety of different types of dusts.

Air Sweep Connection

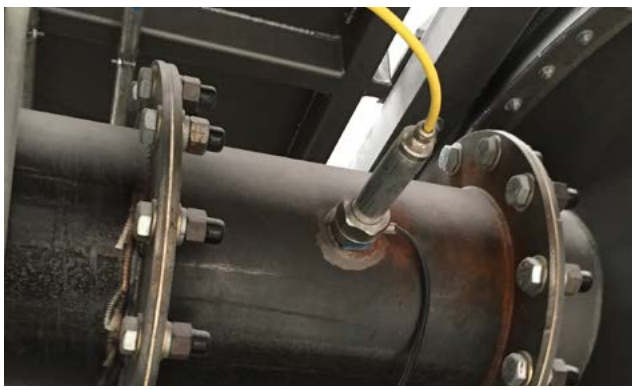
The LumEx optical detector also includes an air sweep connection in the welding adaptor. The air sweep connection keeps the lens clear of particulates which could affect the precision of the sensor. Additionally, the detector has an internal self-checking function which will alarm when cleaning is necessary.

Light Sensitivity

The LumEx® optical detector includes two IR detection sensors which are less sensitive to light sources in comparison with traditional optical detectors. This technology limits the LumEx® from providing the customer with false readings.

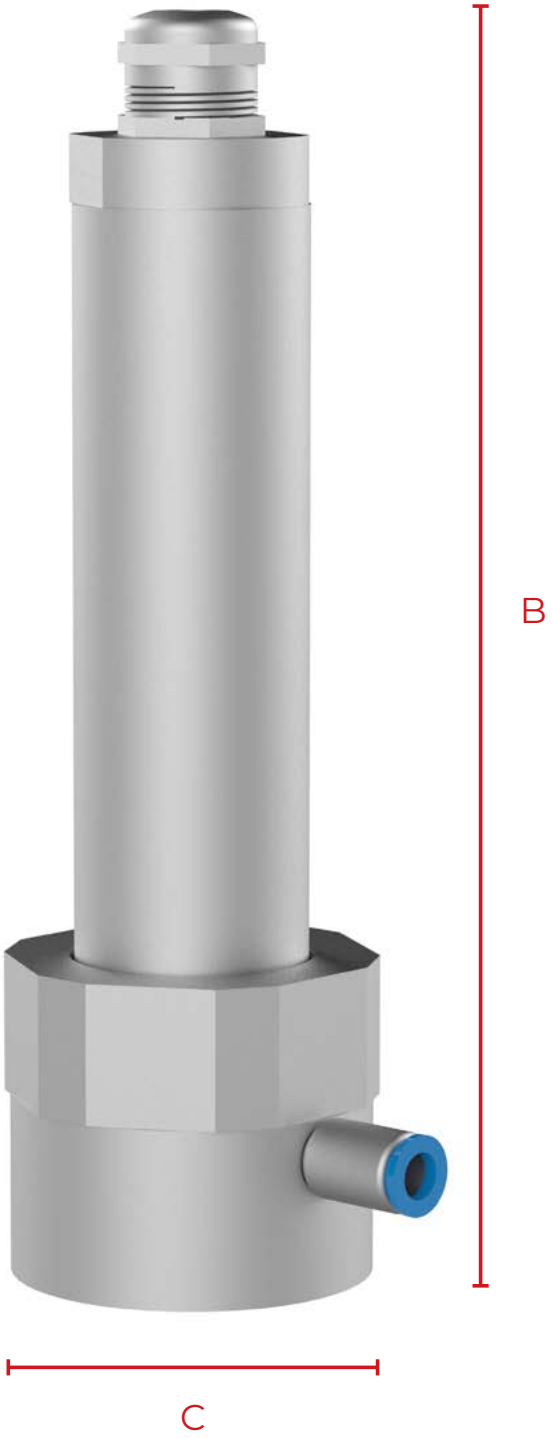


GV TECHNOLOGY® FIRE AND EXPLOSION PROTECTION



DIMENSION

A (in.)	0.74
B (in.)	7.72
C (in.)	2.43



SPECIFICATIONS

Interceptor® Optical Detection | Lumex®

	Description
Compliance and Certifications:	NFPA 69 ATEX, EN 14373 and 15089 Certified FM 7-76
Housing Material:	Stainless Steel Body Stainless Steel Welding Ring with air sweep connection included
Detector Lens Material:	Borosilicate or Polycarbonate
Viewing Angle:	110°
Response Time:	3 ms
Detection Wavelengths:	780 nm to 1100 nm
Supply Voltage:	8 to 27 VDC (Powered by Controller)
Supply Current:	Less than 30 mA
Process Temperature Range:	-4°F to 176°F (-20°C to 80°C)
Ambient Temperature Range:	-4°F to 176°F (-20°C to 80°C)
Environmental Ingress:	IP 65
Weight:	3.4 lbs. (1,560 g)
Anti-explosion design (dust): **Anti-explosion design (gas):**	II 1D/2D Ex ta/tb IIIB T109°C Da/Db II 3G Ex ec IIB T4 Gc
Hazard:	Maximum Pred < 2.00 bar (29 PSI)

CV TECHNOLOGY®
FIRE AND EXPLOSION PROTECTION

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