



TÜVRheinland®

ZERTIFIKAT CERTIFICATE

No.: 968/EZ 606.00/13

Product tested	Infrared Gas Monitor	Certificate holder	Mine Safety Appliances Co. 1000 Cranberry Woods Drive Cranberry Township, PA 16066 USA
Type designation	PrimaX IR	Manufacturer	see certificate holder
Codes and standards forming the basis of testing	IEC 61508 Parts 1-7:2010 EN 50402:2005+ A1:2008 + AC:2009 (in extracts) EN 50271:2010 EN 50270:2006 EN 60079-29-1:2007		
Intended application	In combination with an external safety device (e.g. SUPREMA - Fire and Gas Warning System of MSA AUER GmbH) the PrimaX IR - Infrared Gas Monitor can be used for monitoring of ambient dangerous levels of hydrocarbon gas concentrations. In a HFT=0 configuration it fulfills the requirements of SIL 2 and in HFT=1 configuration the requirements of SIL 3 acc. to IEC 61508.		
Specific requirements	The instructions of the associated Operating Manual shall be considered. The external safety device must be suitable for the requested SIL and contain the defined measures for the detection of fault conditions.		
This certificate is valid until 2018-07-15.			



Functional
Safety
Type
Approved

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The issue of this certificate is based upon an examination, whose results are documented in report-no.: 968/EZ 606.00/13 dated 2013-07-15.

The holder of a valid licence certificate for the product tested is authorized to affix the test mark shown opposite to products, which are identical with the product tested.

TÜV Rheinland Industrie Service GmbH
Bereich Automation
Funktionale Sicherheit
Am Grauen Stein, 51105 Köln

Köln, 2013-07-15

Certification Body for FS-Products

Dipl.-Ing. Klaus Kemp