

Mine Safety Appliances 1000 Cranberry Woods Drive Cranberry Township, PA 16066

Certificate of Compliance to IEC 61508

FM Approvals
Certifies herewith that the

UV/IR Flame Detector
Model FlameGard 5
(Safety Manual [MAN5UVIRSAFETY])

Complies with the relevant requirements of standards listed below:

Standards	Description	Compliance	
IEC 61508-1 1997	Functional Safety of Electronic/Electrical/Programmable Electronic Safety-Related Systems- General Requirements	Part 1	
IEC 61508-2 2000			
IEC 61508-3-2000	Functional Safety of Electronic/Electrical/Programmable Electronic Safety-Related Systems- Software Requirements	Part 3	

And therefore

IS DECLARED "FIT FOR USE" IN A SIL 3, 2 or 1 1001 Low Demand SAFETY APPLICATION

PFD	SFF	λS	λDD	λDU
3.91E-5	>99%	3.92E-6	2.61E-6	2.65E-8

This certificate is subject to conditions of use presented in FM Approval Report Project ID # 3041816

January 2011

Patrick Byrne

Technical Team Manager



Member of the FM Global Group