## Arc Detect Module

The GA8414 Arc Detect Module (ADM) is designed to detect an arc discharge occurring inside a waveguide or process cavity due to high electric field strength. A photo transistor views through the threaded mounting bushing into the waveguide or cavity and detects arcs occurring within its line of sight. The ADM can also be used for non-fault applications such as the detection of a plasma or combustion. The module can be easily mounted by attaching to an appropriately located threaded boss or panel (cavity wall) hole.

Output signals include an open-collector transistor driver and SPDT form C (NO/ NC) dry relay contacts. Upon detecting an arc, the outputs change state momentarily (non-latching) in the standard configuration, or permanently in the optional "latching" configuration. Options include compatibility with pressurized waveguide, a sealed enclosure and wide angle viewing.

Many GAE waveguide components are available with a custom mounting port for the GA8414 detector module. Contact GAE for advice and detailed information on mounting the GA8414.

## **General Specifications:**

Supply Voltage	15-24 VDC (Vcc), 50 mA plus output driver current		
Output Signal	Open-collector Darlington transistor, 500 mA max drain current (input voltage = Vcc)		
Output Relay	SPDT Form C (NO/NC) dry contacts, 30 V AC/DC max, 2 A max resistive load (1 A max inductive load)		
Response Time	5 ms max.		
Output Type	Standard: Momentary (non-latching) Optional: Latching		
Output Duration	480 ms (non-latching)	ARC DETECTED (LOW)	
Options:	. 2.	RELAY COMMON	:
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- Pressure compatible (30 psi max) ٠
- Sealed enclosure ٠
- Wide angle viewing

RELAY N.C. (OPEN ON A RC)

- RELAY N.O. (CLOSE ON ARC)
- SUPPLY VOLTAGE (15-24 VDC)



Vcc



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Model GA8414