



AAL[®]
Autometers Alliance Ltd

FIRE DETECTOR EQUIPMENT

For WAG-9, Electric Locomotives

Technical Features:

- Opto-electronic type Smoke sensors compliant to EN54-7/9.
- Airflow sensor.
- 20-30VDC (24VDC nominal).
- IEC-60571 compliant.
- Potential free relays output.
- Suction unit with airflow monitoring.
- Visual indicators for operation, fault/malfunction, Smoke Detector 1 & 2 and relay outputs.
- Sub-D Plug, 25 pin for 24VDC power supply and Relay connections.
- Fault signaling with time delay of 0.5, 2, 16 or 128 minutes.
- Reset button for system reset.
- Connection for pipe with 25mm outside diameter.



Fire Detection Equipment is designed to provide the real time monitoring of smoke. It consists of two Opto-electronic type Smoke sensors, suction system with airflow monitoring, visual indicators for operation, fault / malfunction.

Application

Fire Detection Equipment is designed to detect smoke arising due to Smouldering and flaming fires in the locomotive by drawing air from the suction pipe.

Technical Specification

Nominal supply voltage	20-30 VDC (24 VDC)	
Dimensions (H × W × L mm)	143 × 252 × 376 mm	
Approximate Weight including detector	7.1 Kg	
Protection Class	IP 40	
Temperature range, operation	-25 °C to +70 °C	
Storage temperature	-40 °C to +85 °C	
Fan type	Radial	
Material	Zincor Sheet	
Visual Operation Indication	Operation	Green LED
	Fault / malfunction	Yellow LED
	Alarm Smoke Detector 1	Red LED
	Alarm Smoke Detector 2	Red LED
Potential free Relay output	3 Relays for Fire detector 1 & 2, Fault	
Pipe connection	PG 29 union piece	
Maximum pipe length	30 m	
Maximum number of suction points	20	
Compliance standards	IEC 60571, CLW Specification CLW/ES/3/0057 reference specification	



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