

GAS & SPECIALTY SENSORS

PLENUM SMOKE DETECTOR HS-100 SERIES

DESCRIPTION

The Air Products & Controls HS-100 Series Plenum Smoke Detectors provide early detection of smoke and combustion products present in air moving through HVAC plenum return systems in commercial rooftop package unit applications. The detectors are designed to prevent the recirculation of smoke in areas by the air handling system's fans and blowers.

FEATURES

- **Universal voltage: 24 VAC, 24 VDC, 115 VAC, or 230 VAC**
- **Visual indication of power and alarm status**
- **Two alarm contacts and one trouble contact**
- **Interchangeable "plug-in" photoelectric or ionization heads**
- **Compatible with building automation and fire alarm systems**
- **Dust filtering included in detector head**
- **Interconnect up to 30 detectors for common function**



HS-100



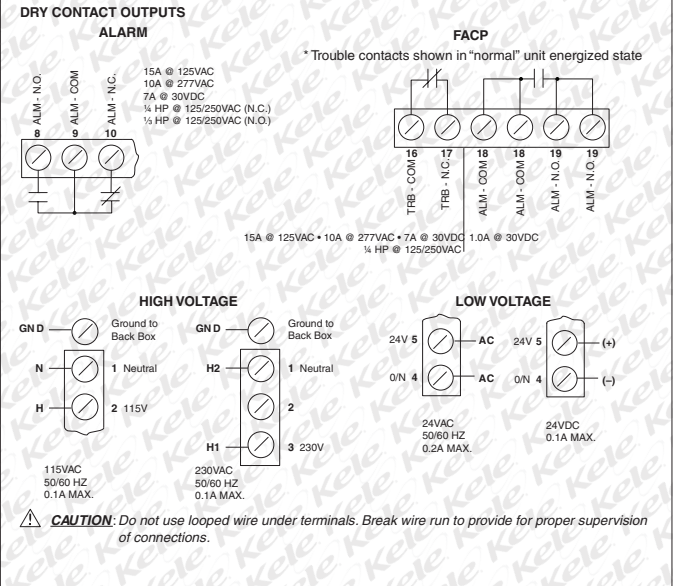
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SPECIFICATIONS

Supply Voltage	24 VAC: @ 35 mA standby, 74 mA alarm; 24 VDC: @ 15 mA standby, 56 mA alarm; 115 VAC: @ 25 mA standby, 32 mA alarm; 230 VAC @ 12 mA standby, 16 mA alarm 50/60 Hz
Frequency	50/60 Hz
Air Velocity	0-2000 fpm (0-10.2 mps) 0-3000 fpm (0-15.2 mps)
HS-100-N	
HS-100-P	
Radioactive Element	For HS-100-N only Americium 241, 0.9 µCi
Relay Output	Alarm 1-SPDT, 10A, 115 VAC, resistive; 1-SPST-NO, 2A Trouble 1-SPST-NC, 10A, 115 VAC, resistive
Wiring Terminations	Solid or stranded, 12 to 22 AWG terminals
Operating Humidity	0% to 85% RH non-condensing
Operating Temperature	HS-100-N 32° to 158°F (0° to 70°C) HS-100-P 32° to 140°F (0° to 60°C)
Enclosure Rating	White plastic, NEMA 1
Dimensions	6" Dia. x 4.0"H (15.2 x 10.2 cm)
Weight	1.0 lb (0.45 kg)
Approvals	UL File #S2829 CSFM listed 3240-1004:118 MEA approved 73-92-E, Vol. 26
Warranty	1 year

WIRING



ORDERING INFORMATION

MODEL	DESCRIPTION	PAGE
HS-100-N	Plenum ionization smoke detector	979
HS-100-P	Plenum photoelectric smoke detector	995
691-K0A	ACCESSORIES Control transformer, 120:24 VAC, 40 VA, Class 2	994
DCP-1.5-W	Power supply, 24 VAC IN to 24 VDC OUT	
DCPA-1.2	Power supply, 120 VAC IN to 24 VAC/24 VDC OUT	