

Matrix A-Sprinklered

General Category	Type	Component	Manufacturer	Model	Design Notes	Required Locations or Use	Special Installation Requirements	Action	
Initiating Devices and Accessories	Manual Pull Stations	Manual Pull Stations	Potter	PAD100-PSDA	Provide with protective guard when located in student accessible locations.	Provide one outside the main office. Provide one at the fire alarm control panel.	Semi flush for concealed wiring/conduit applications. Wiremold V5748 box for surface applications.	Alarm	
							4-s backbox with 1-gang mud ring for conduit applications		
								Mount with operating handle at 48" AFF.	
		Protective Guard	STI	STI-1130	Provide with protective guard when located in student accessible locations.				
	Spot Smoke Detection	Spot Smoke Detection	Potter	PAD100-PD	Install at the ceiling in rooms identified using NFPA 72 spacing criteria except where smoke detectors are suitable due to the ambient environment or where ceiling heights due not exceed 16 feet AFF.	Hallways and corridors Rooms with door hold opens At the top of each stairway		Alarm Alarm Alarm	
						Any room leading to a corridor or stairwell excluding office, work rooms, and classrooms		Alarm	
						Add Alternate: Classroom Detection		Alarm	
		Detector Base	Potter	PAD100-6B					
		Protective Guard	STI		Provide smoke detector with protective guard when located in areas where subject to damage e.g., multipurpose rooms.				
	Beam Smoke Detection	Beam Smoke Detectors	System Sensor	BEAM1224S	Use in rooms identified where ceiling height exceed 16 feet AFF. If 16 feet or less, provide spot detectors.	Gyms		Alarm	
					Follow manufacturer and NFPA 72 spacing criteria.	Multipurpose Rooms Cafeterias			
		Remote Test Switch	System Sensor	RTS151KEY	Provide for all Beam Smoke Detectors		4-s backbox with 1-gang mud ring		
						Locate in nearby, secure, accessible location.			
		Protective Guard	STI	STI-9706 or 9707	Provide beam smoke detector with protective guard when located in areas where subject to damage e.g., gyms, multipurpose rooms, etc.				

Matrix A-Sprinklered

General Category	Type	Component	Manufacturer	Model	Design Notes	Required Locations or Use	Special Installation Requirements	Action
Initiating Devices and Accessories	Heat Detection - Rate of Rise	Heat Detection - Rate of Rise	Potter	PAD100-HD	Use in areas identified.	Home Economics rooms		Alarm
					Follow manufacturer and NFPA 72 spacing criteria.	Shop Areas		Alarm
						Mechanical Rooms		Alarm
						Art and Crafts Rooms		Alarm
						Science Rooms		Alarm
						Restrooms with Showers		Alarm
						Elevator Shafts (when required by code)		Alarm
						Crawl spaces used for storage		Alarm
						Attic spaces used for storage		Alarm
					Areas not suitable for smoke detection due to use of space and not suitable for rate of rise applications due to potential large temperature fluctuations.		Alarm	
		Detector Base	Potter	PAD100-6B				
	Heat Detection - Fixed Temperature	Heat Detection - Fixed Temperature	Potter	PAD100-HD	Use in areas identified.	Boiler rooms		Alarm
					Follow manufacturer and NFPA 72 spacing criteria.	Kitchens		Alarm
						Generator rooms		Alarm
						Areas exposed to sunlight (skylights)		Alarm
						Kiln Rooms		Alarm
						Areas not suitable for smoke detection due to use of space.		Alarm
	Other	Duct Smoke Detector	Potter	PAD100-DUCT		In locations where required by code.		Supervisory
		Duct Smoke Sensor	Potter	PAD100-DD				

Matrix A-Sprinklered

General Category	Type	Component	Manufacturer	Model	Design Notes	Required Locations or Use	Special Installation Requirements	Action
Modules and Accessories	Input Modules	Input Modules	Potter	PAD100-SIM, PAD100-DIM, PAD100-OROI, PAD100-TRTI	Do not use miniature modules (PAD100-MIM)	Fire sprinkler water flow alarms	Per manufacturer and NEC requirements	Alarm
					Dual module can be used where inputs are adjacent to each other.	Fire sprinkler supervisory valve switches		Supervisory
					Combination relay/input modules can be used where control points and inputs are adjacent to each other.	Fire sprinkler supervisory pressure switches		Supervisory
						Kitchen hood fire suppression systems		Alarm
						Beam smoke detectors		Alarm
						Supervisor power for elevator shunt trip		Supervisory
						For monitoring dry contacts of any other system or device that is required to be monitored and is not-addressable.		Various
	Output Modules	Output Modules	Potter	PAD100-RM, PAD100-OROI, PAD100-TRTI	Provide with isolation relay for shutdown connections.	HVAC shutdown	Per manufacturer and NEC requirements	
					Combination relay/input modules can be used where control points and inputs are adjacent to each other.	Smoke dampers	DCM to only be used for monitoring devices in the same room.	
						Magnetic door holder control		
						Elevator recall		
						Elevator shunt trip		
	Isolator Modules	Isolator Modules	Potter	PAD100-SIM, PAD100-DIM, PAD100-OROI, PAD100-TRTI			Per manufacturer and NEC requirements	

