

Matrix B-Unsprinklered

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 within 5 feet of the entrance to building exits.	Semi flush for concealed wiring/conduit applications.	Alarm	
						Provide within 5 feet of pathways to open or enclosed stairs, even if not considered building exits.	Wiremold V5748 box for surface applications.		
							Provide at locations as needed to insure travel distances no greater than 200 feet.	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 all rooms and spaces for a total coverage system as defined by NFPA 72 except where smoke detectors are not suitable due to the ambient environment or where ceiling heights exceed 16 feet AFF.		Hallways and corridors		Alarm
							Rooms with door hold opens		
							At the top of each stairway		
							Any room leading to a corridor or stairwell excluding office, work rooms, and classrooms		
							Add Alternate: Classroom Detection		
		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 areas suitable for smoke detectors with ceilings more than 16 feet AFF using NFPA 72 spacing criteria.		Gyms		Alarm
							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.				

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Initiating Devices and Accessories	Heat Detection - Rate of Rise	Heat Detection - Rate of Rise	Potter	PAD100-HD	Use in areas identified and other areas not suitable for smoke detectors.	Home Economics rooms		Alarm
						Shop Areas		
						Mechanical Rooms		
						Art and Crafts Rooms		
						Science Rooms		
						Restrooms with Showers		
						Elevator Shafts (when required by code)		
						Crawl spaces used for storage		
						Attic spaces used for storage		
					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.			
		Detector Base	Potter	PAD100-6B				
	Heat Detection - Fixed Temperature	Heat Detection - Fixed Temperature	Potter	PAD100-HD	Use in areas identified and not suitable for smoke detectors or rate-of-rise type heat detectors.	Boiler rooms		Alarm
						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
		Detector Base	Potter	PAD100-6B				
Other	Duct Smoke Detector	Potter	PAD100-DUCT		In locations where required by code.		Supervisory	
	Duct Smoke Sensor	Potter	PAD100-DD					

