



Designation: F 967 – 95

Standard Practice for Security Engineering Symbols¹

This standard is issued under the fixed designation F 967; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This practice utilizes symbols to depict security systems and equipment requirements for architectural or engineering drawings that are produced either manually or by computer aided design (CAD). The symbols depicted include some symbols that have already been somewhat universally accepted or that have already been adopted by a standards-writing body, such as by the National Fire Protection Association.

1.2 It is not proposed that all of the symbols need to be utilized since the level of detail required for drawings is likely to vary. Generic symbols of a class of security device may be sufficient in some instances. Moreover, the need to provide a measure of security in the actual drawing may also suggest a need to utilize a generic symbol rather than to depict the exact device being installed.

1.3 In the event that a greater level of detail is required, it is possible to combine many of the symbols to create new symbols that achieve the desired level. While some combinations of symbols are shown, it would be impractical to attempt to depict every conceivable combination of symbols. It is also the intent of this practice that the symbols be capable of being continuously expanded and modified as the industry state of the art changes or as emphasis varies. For example, little attention is given to document security in the security symbols since such requirements are not generally fully met during construction periods but are rather developed and provided for subsequently. Since much of this equipment is not installed but is “placed,” such as furniture, there is only one symbol proposed (for example, for document shredders).

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Keywords

2.1 computer aided design; security engineering; symbols

¹ This practice is under the jurisdiction of ASTM Committee F-12 on Security Systems and Equipment and is the direct responsibility of Subcommittee F12.10 on Systems, Products and Services.

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





































1. ANNOTATION

	Existing Equipment
	Point and Zone Indicator
	Connection Between Devices (for example, button and lock)
	Detail and Reference Drawing
	Door Number (if more than one door in room, use sub-letter)
	Room or Space Number
	Device Number (reference device schedule)



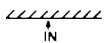






























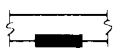













2. ACCESS CONTROL

	Generic Card Reader (reference door schedule or specifications for type): P = pedestal mount
	Card Reader with Touch Pad
	Token-Type Access Control
	CCTV and Card Reader
	CCTV and Intercom
	Split Lens CCTV with ID Card Receptacle
	Apartment Type CCTV with House Phone and Touch Pad (insert “K” key ²)
	² , as appropriate for key switch)
	Biometric Access Control Device (reference door schedule or specifications for type)

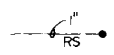





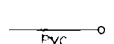

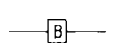

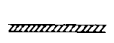

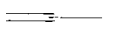

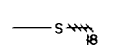

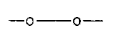

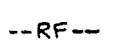

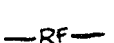

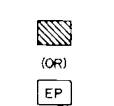

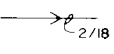







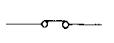

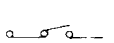

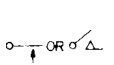

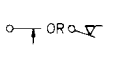
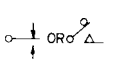
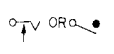
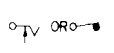
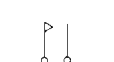





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	Touch Pad Lock or Device, Mechanical or Electronic (reference door schedule for type)		Control Device Module, Door Release
	Turnstile (reference door schedule for type and function)		End-of-Line Device Module
	Post and Rail (rope)	$10K \Omega$	Resistance (Ohms) (indicate value; that is, 10 000 Ω)
	Generic Screening Device X: M = Metal Detector E = Explosive Detector X = X-ray T = Tag Detector (EAS)	K	Thousands
	Sally Port		Dry Contacts, Set
	Indicating Interlocking Doors		Contacts with Current
	Indicating Space is a "Man-Trap"		Power Switch
	3. ANNUNCIATION: CONSOLE/PANEL Strip (Tallyroll) Printer		4. ANNUNCIATION: DEVICES Annunciation Device, Generic
	Printer		Buzzer
	Time Clock with Card Reader		Generic Bell
	Central Processing Unit		Generic Chime
	CRT (cathode ray tube/display)		Generic Security Horn (differentiate from fire horn; use also for local alarm)
	Static Map Display (for dynamic map display, use CRT symbol)		5. BARRIERS AND VEHICLE CONTROLS Generic Fence (reference type in specification or schedule)
	Keyboard		Generic Masonry (reference type in specification or schedule)
	Jeweled Signal Light		X: (Fence Type) Y: (Sensor Type, see below)
	Panel Light Indicator (R = Red, A = Amber, W = White, V = Violet, G = Green, Y = Yellow, B = Blue, O = Orange)		X: C = Chain Link; W = Welded Mesh; B = Barbed Top; R = Razor Ribbon Y: E = Electrostatic; T = Taut Wire; V = Vibration
	Multiplex Panel		Roll-Up Gate
	Panel Sound Indicator		Sliding Gate
	Panel Sound and Light Indicator		Swing Gate
	Reset		Traffic Arm
	Push-Button, Momentary/Make (circuit closing)		Traffic Lights (use "M" for miniature)
	Time Delay Module		

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	Generic Vehicle Sensor (reference specification or schedule for type)		Stand-By Battery
	Tire Treadle		Capacitor
	Security Grill with Emergency Release		Circuit Breaker
	Security Grill		Ground
	Generic Security Screen		Circuit Return, Common
	Repair/Secure Window Operator (use "R" for repair, "S" for security)		Circuit Return, Frame
6. COMMUNICATIONS			Relay, Normally Open
	Telephone Handset		Relay, Normally Closed
	Intercom, Master, Hands-Free (use "S" for slave or sub)		Relay
	Intercom, Push-to-Talk		Transformer
	Generic Speaker (reference specification or schedule for type)		Transformer (on floor plan)
	Nurse Station, Master, Wall Mount (use "D" for desk mount)		Rectifier
	Nurse Call System Device, Generic		Diode
	Paging System Device, Generic		Visual Signaling Device
	Private Telephone System Device, Generic		Fuse
	Public Telephone System Device, Generic		Motor
	Two-Way Radio Base Station		Generator
	Flush Mount Panel Board/Cabinet		Junction Box, in Ceiling
	Surface Mount Panel Board/Cabinet		Junction Box, Wall
7. ELECTRICAL			Electrical Outlet, Wall, Duplex
	Resistor		Triplex Receptacle
	End-of-Line Device		Intersection, No Connection
	Amplifier		Intersection, Connection
	Antenna		
	Antenna, Loop		
	Battery		

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	Conduit Run, Exposed, Turn Down (rigid steel—1 in.)		Form B, SPST, N.C.
	Conduit Run, Exposed, Armored		Form C, SPDT
	Conduit Run, Concealed, Turn Up (EMT)		SPST (Single-Pole, Single-Throw)
	Conduit Run, Exposed, Turn Up (PVC)		SPDT (Single-Pole, Double-Throw)
	Booster		DPST (Double-Pole, Single-Throw)
	Shielded Cable		DPDT (Double-Pole, Double-Throw)
	Coaxial Cable		
	Conductor, Twisted Pair		
	Conductor, Security System (4 conductors, No. 18 AWG)		Incandescent Light Fixture, Flush, Ceiling Mount
	Fiber Optic Cable		Incandescent Light Fixture, Flush, Wall Mount
	Local Radio Signal Link		Incandescent Light Fixture, Surface, Ceiling Mount
	Long Range Radio Signal Link		Incandescent Light Fixture, Surface, Wall Mount
	Power Panel		Fluorescent Fixture, Ceiling Mount
	Home Run, 2 Conductors, 18 AWG (number of arrows indicates number of circuits)		Dedicated Security Lighting, Low Pressure Sodium (use other designators for other types, that is, MV = mercury vapor)
	Feeder		Minimum Foot-Candles or Lamberts this Area
	Manhole		Spotlight/Floodlight
	Rotary Switch		Outdoor Strobe Light
	Toggle Switch, SPST		Illuminate this Area
	Toggle Switch, SPDT		Infrared Illuminator
	Nonlocking, Momentary Circuit Closing (make)		Street Light, Pole-Mounted
	Nonlocking, Momentary Circuit Opening (break)		
	Transfer		
	Locking, Circuit Closing (make)		
	Locking, Circuit Opening (break)		
	Form A, SPST, N.O.		
			Security Container; Safe; File Cabinet
			Document Destroyer
			Safe, Tack-Welded to Structural Member
			Signage
			Bar/Grill/Seal this Location

8. LIGHTING

9. MISCELLANEOUS