

Standard Practice for Security Engineering Symbols¹

This standard is issued under the fixed designation F967; 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).

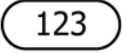
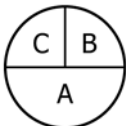
1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appro-*

priate 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. 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)
	Device Reference A = Drawing Sheet B = Detail C = Device /Zone Number

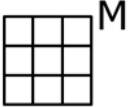
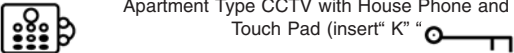
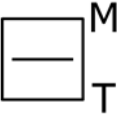
2. ACCESS CONTROL

	Generic Card Reader (reference door schedule or specifications for type): P = pedestal mount
	Card Reader with Touch Pad

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

Current edition approved March 1, 2011. Published June 2011. Originally approved in 1986. Last previous edition approved in 2003 as F967 – 03. DOI: 10.1520/F0967-03R11.



	Token-Type Access Control		Keypad Device
	CCTV and Card Reader		Card Reader with Keypad
	CCTV and Intercom		Card Reader with Time and Attendance
	Split Lens CCTV with ID Card Receptacle		
	Apartment Type CCTV with House Phone and Touch Pad (insert "K" "key", as appropriate for key switch)		
	Biometric Access Control Device (reference door schedule or specifications for type)		
	Touch Pad Lock or Device, Mechanical or Electronic (reference door schedule for type)		
	Turnstile (reference door schedule for type and function)		
	Post and Rail (rope)		
	Generic Screening Device X: M = Metal Detector E = Explosive Detector X = X-ray T = Tag Detector (EAS)		
	Sally Port		
	Indicating Interlocking Doors		
	Indicating Space is a "Man-Trap"		
	Card Access Reader B = Barcode W = Wiegand P = Proximity M = Mag Stripe F = Elevator Floor Call H = Elevator Hall Call T = Token S = Smart Card		
	Biometrics Access Control Device H = Hand Geometry F = Finger Print V = Voice R = Eye Retina I = Eye Iris		
			3. ANNUNCIATION: CONSOLE/PANEL
			Strip (Tallyroll) Printer
			Printer
			Time Clock with Card Reader
			Central Processing Unit
			CRT (cathode ray tube/display)
			Static Map Display (for dynamic map display, use CRT symbol)
			Keyboard
			Jeweled Signal Light
			Panel Light Indicator (R = Red, A = Amber, W = White, V = Violet, G = Green, Y = Yellow, B = Blue, O = Orange)
			Multiplex Panel
			Panel Sound Indicator
			Panel Sound and Light Indicator



	Reset		Buzzer
	Push-Button, Momentary/Make (circuit closing)		Generic Bell
	Time Delay Module		Generic Chime
	Control Device Module, Door Release		Generic Security Horn (differentiate from fire horn; use also for local alarm)
	End-of-Line Device Module		Audio Device T: L = Lock C = Camera I = Intercom
$10K \Omega$	Resistance (Ohms) (indicate value; that is, 10 000 Ω)	5. BARRIERS AND VEHICLE CONTROLS Generic Fence (reference type in specification or schedule) X: (Fence Type) Y: (Sensor Type, see below)	
K	Thousands		
	Dry Contacts, Set		
	Contacts with Current		
	Power Switch		Generic Masonry (reference type in specification or schedule) X: C = Chain Link; W = Welded Mesh; B = Barbed Top; R = Razor Ribbon Y: E = Electrostatic; T = Taut Wire; V = Vibration
	Field Panel T: C = Card Reader A = Alarm		Ditch Barrier
	Control Panel T: B = Burglar F = Fire P = Perimeter D = Door		Ditch and Berm Barrier
	Central Processing Unit		Roll-Up Gate
	Keyboard		Sliding Gate
	Printer		Swing Gate
	Power Supply T: L = Lock C = Camera P = Panel I = Intercom		Traffic Arm
	4. ANNUNCIATION: DEVICES Annunciation Device, Generic		Traffic Lights (use "M" for miniature)
			Generic Vehicle Sensor (reference specification or schedule for type)
			Tire Treddle
			Security Grill with Emergency Release



	Security Grill
	Generic Security Screen
	Repair/Secure Window Operator (use "R" for repair, "S" for security)
	Turnstile
	Revolving Door
	Traffic Arm
	Vehicle Loop Detector
	Security Window Screen T: S = Shade B = Blind (see Section 10 for alarm screen)

6. COMMUNICATIONS

	Telephone Handset
	Intercom, Master, Hands-Free (use "S" for slave or sub)
	Intercom, Push-to-Talk
	Generic Speaker (reference specification or schedule for type)
	Nurse Station, Master, Wall Mount (use "D" for desk mount)
	Nurse Call System Device, Generic
	Paging System Device, Generic
	Private Telephone System Device, Generic
	Public Telephone System Device, Generic
	Two-Way Radio Base Station

	Flush Mount Panel Board/Cabinet
	Surface Mount Panel Board/Cabinet
	Intercom T: M = Master S = Substation
	Two-Way Radio Microphone
	Cellular Transmitter
	Telephone Dialer T: D = Digital Communicator V = Voice Dialer
	Fiber Optic Module T: Tx = Transmitter R = Receiver T = Transceiver

7. ELECTRICAL

	Resistor
	End-of-Line Device
	Amplifier
	Antenna
	Antenna, Loop
	Battery
	Stand-By Battery
	Capacitor
	Circuit Breaker