



Designation: F967 – 03 (Reapproved 2011)

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 appropriate*

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.







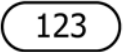
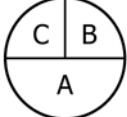
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and determine the applicability of regulatory limitations prior to use.



2. Keywords

























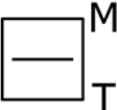





2.1 computer aided design; security engineering; symbols

1. ANNOTATION




















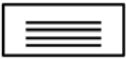



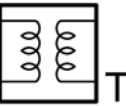





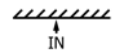

-  Existing Equipment
-  Point and Zone Indicator
-  Connection Between Devices (for example, button and lock)
-  Detail and Reference Drawing
-  Door Number (if more than one door in room, use sub-letter)
-  Room or Space Number
-  Device Number (reference device schedule)
-  Device Reference
A = Drawing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








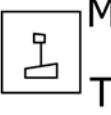



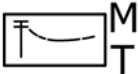

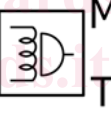

2. ACCESS CONTROL

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

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











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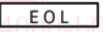







	Reset		Buzzer
	Push-Button, Momentary/Make (circuit closing)		Generic Bell
	Time Delay Module		Generic Chime
	Control Device Module, Door Release		Generic Security Horn (differentiate from fire horn; use also for local alarm)
	End-of-Line Device Module		Audio Device T: L = Lock C = Camera I = Intercom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

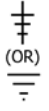
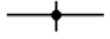

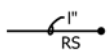

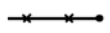



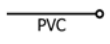

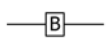

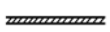

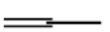



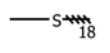









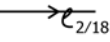



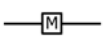


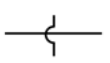


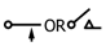
	Security Grill		Flush Mount Panel Board/Cabinet
	Generic Security Screen		Surface Mount Panel Board/Cabinet
	Repair/Secure Window Operator (use "R" for repair, "S" for security)		Intercom T: M = Master S = Substation
	Turnstile		Two-Way Radio Microphone
	Revolving Door		Cellular Transmitter
	Traffic Arm		Telephone Dialer T: D = Digital Communicator V = Voice Dialer
	Vehicle Loop Detector		Fiber Optic Module T: Tx = Transmitter R = Receiver T = Transceiver
	Security Window Screen T: S = Shade B = Blind (see Section 10 for alarm screen)		

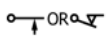
6. COMMUNICATIONS

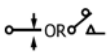
7. ELECTRICAL


	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


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


	Ground		Intersection, Connection
	Circuit Return, Common		Conduit Run, Exposed, Turn Down (rigid steel—1 in.)
	Circuit Return, Frame		Conduit Run, Exposed, Armored
	Relay, Normally Open		Conduit Run, Concealed, Turn Up (EMT)
	Relay, Normally Closed		Conduit Run, Exposed, Turn Up (PVC)
	Relay		Booster
	Transformer		Shielded Cable
	Transformer (on floor plan)		Coaxial Cable
	Rectifier		Conductor, Twisted Pair
	Diode		Conductor, Security System (4 conductors, No. 18 AWG)
	Visual Signaling Device		Fiber Optic Cable
	Fuse		Local Radio Signal Link
	Motor		Long Range Radio Signal Link
	Generator		Power Panel
	Junction Box, in Ceiling		Home Run, 2 Conductors, 18 AWG (number of arrows indicates number of circuits)
	Junction Box, Wall		Feeder
	Electrical Outlet, Wall, Duplex		Manhole
	Triplex Receptacle		Rotary Switch
	Intersection, No Connection		Toggle Switch, SPST
			Toggle Switch, SPDT
			Nonlocking, Momentary Circuit Closing (make)


 Nonlocking, Momentary Circuit Opening (break)


 Transfer

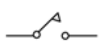
 Locking, Circuit Closing (make)

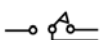
 Locking, Circuit Opening (break)


 Form A, SPST, N.O.

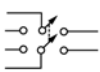
 Form B, SPST, N.C.

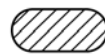
 Form C, SPDT


 SPST (Single-Pole, Single-Throw)

 SPDT (Single-Pole, Double-Throw)

 DPST (Double-Pole, Single-Throw)

 DPDT (Double-Pole, Double-Throw)

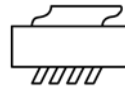
 Illuminate this Area

 Infrared Illuminator

 Street Light, Pole-Mounted

9. MISCELLANEOUS

 Security Container; Safe; File Cabinet

 Document Destroyer

 Safe, Tack-Welded to Structural Member

 Signage

 Bar/Grill/Seal this Location


 Timer


 Gun Port

8. LIGHTING


 Incandescent Light Fixture, Flush, Ceiling Mount

 Incandescent Light Fixture, Flush, Wall Mount


 Incandescent Light Fixture, Surface, Ceiling Mount


 Incandescent Light Fixture, Surface, Wall Mount

 Fluorescent Fixture, Ceiling Mount

 Dedicated Security Lighting, Low Pressure Sodium (use other designators for other types, that is, MV = mercury vapor)

 Minimum Foot-Candles or Lamberts this Area

 Spotlight/Floodlight

 Outdoor Strobe Light

10. SENSORS

Generic Volumetric Motion Sensor (Mono)

X: M = Microwave

I = Passive IR

U = Ultrasonic

D = Dual Tech

Generic Volumetric Beam Sensor (Bi-Static)

X: M = Microwave

I = Infrared

P = Photo-cell

Generic Glass Breakage Sensor


T: A = Audio

S = Shock



 Capacitance Sensor

 Temperature Sensor

 Pad/Mat Switch