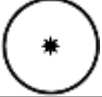
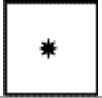

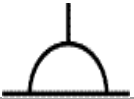



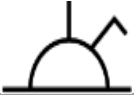


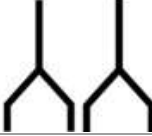


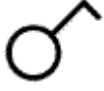



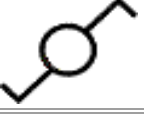



## Basic Electrical Symbols

Location Symbols for General Installations	
	Machine, general symbol * Function etc.
	Load, general symbol * Details
	Motor starter, general symbol * Indicates type etc.
	Socket-outlet, general symbol
	Twin Socket-outlet, general symbol
	1 gang un switched socket-outlet
	2 gang un switched socket-outlet
	1 gang switched socket-outlet
	1 gang switched socket-outlet

## Location Symbols for General Installations



	2 gang switched socket-outlet
	2 gang switched socket-outlet
	Connection unit – fused as specified
	Switched connection unit – fused as specified
	Switch, general symbol
	Switch, general symbol double pole
	1 gang 1 way switch
	1 gang 2-way switch
	2-way switch, single pole
	2 gang switches







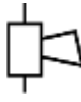

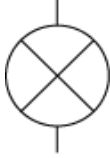
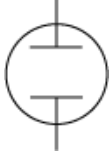

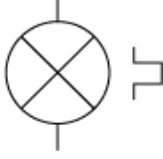
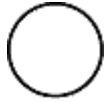
3 gang switches

### Location Symbols for General Installations





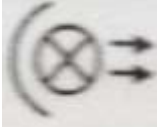



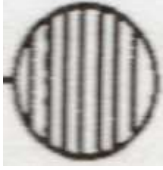

A circle with a triangle pointing downwards from its top edge, representing a dimmer switch.	Dimmer switch
A circle with two diagonal lines crossing at the center, representing an intermediate switch.	Intermediate switch
A circle with four lines extending from the corners, representing an intermediate switch.	Intermediate switch
A circle with a horizontal line extending from the right side and a diagonal line extending from the top-right corner, representing a pull switch, single-pole.	Pull switch, single-pole
Two concentric circles, representing a push button.	Push button
A circle with a cross inside, representing a push button with a neon indicator.	Push button with neon indicator
A circle with a vertical line on the left and a horizontal line on the bottom, representing a clock, general symbol.	Clock, general symbol
A rectangle containing a circle with a vertical line on the left and a horizontal line on the bottom, representing a time switch.	Time switch
A rectangle containing a circle with a vertical line on the left and a horizontal line on the bottom, representing a time clock.	Time clock

	Key operated switch
	Cooker control unit




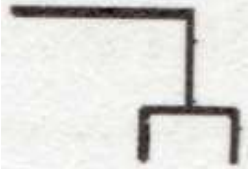

## Location Symbols for General Installations

	Thermostat
	Bell (Audible)
	Buzzer (Audible)
	Siren (Audible)
	Horn
	Telephone handset, general symbol
	Lamp (Standard)
	Lamp Standard
	Filament Lamp
	Lamp (Flashing)
	Lighting outlet position - general symbol














## Location Symbols for General Installations

	Fluorescent luminaire (rows indicate number of tubes)
	Wall mounted luminaire
	Self - contained emergency lighting luminaire
	Emergency lighting luminaire (or special circuit)
	Spot light
	Flood light
	Wall mounted fitting
	Socket outlet (power) with isolating transformer – eg shaver outlet
	Water heater
	Extract fan


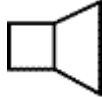

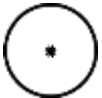



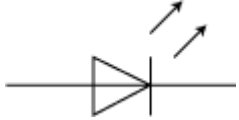
## Location Symbols for General Installations




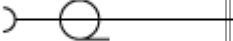



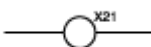
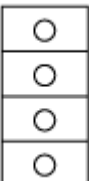

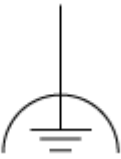
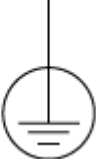
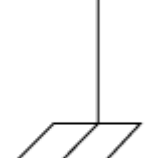


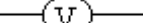

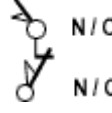


	<p>Projector general symbol</p>
	<p>Distribution board or consumer unit</p>
	<p>Connection or junction box</p>
	<p>Socket Outlet (telecommunications)</p> <p><b>General Symbols</b> Designated as follows:</p> <p>TP - Telephone M - Microphone FM - Frequency Modulation TV - Television TX - Telex</p> <p> - Loudspeaker</p>

## Common Schematic Drawing Symbols

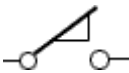
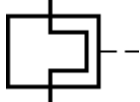


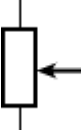
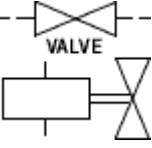






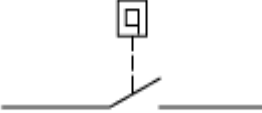
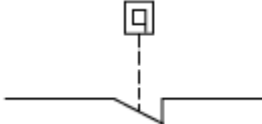
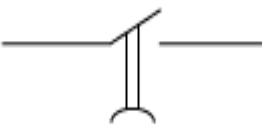
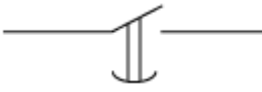

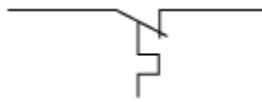

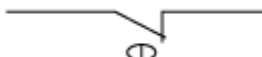
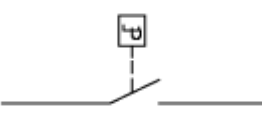
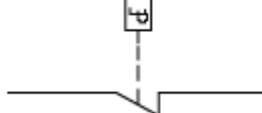
	Switch
	Switch- fuse
	Fuse-switch
	Isolator (Disconnecter), general symbol
	Disconnecter - fuse (fuse combination unit)
	Fuse - disconnecter
	Switch - disconnecter
	Switch - disconnecter - fuse (fuse combination unit)
	Fuse - switch - disconnecter
	Capacitor, general symbol
	Inductor, coil, winding or choke
	Inductor, coil, winding or choke with magnetic core
	Semi Conductor Diode - general symbol

## Common Schematic Drawing Symbols

	<b>Microphone</b>
	<b>Loudspeaker</b>
	<b>Antenna, general symbol</b>
	<b>Machine, general symbol</b> * Function M=Motor G=Generator
<b>G</b>	<b>Generator, general symbol</b>
	<b>Indicating instrument, general symbol</b> * Function V = Voltmeter A = Ammeter etc.
	<b>Integrating instrument or Energy meter</b> * Function Wh = Watt-hour VArh = Volt ampere reactive hour
	<b>Lamp, or signal lamp, general symbol</b>
	<b>Light Emitting Diode (LED)</b>

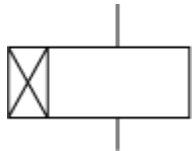
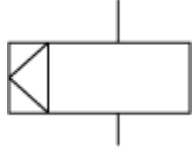








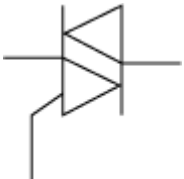
Common Schematic Drawing Symbols			
	Plug Male		Socket (plug female)
	Coax Plug Male		Slow Operating Relay - Delay On
	Wire Connections (Two Wires)		Wire Connections (crossed)
	Wires Crossing (Not Connected)		Terminal Connector
	Terminal Block		Earth Connection
	Noiseless Earth		Protective Earth
	Chassis Earth		Equipotentiality
	Ammeter		Voltmeter
	Circuit Breaker		Selector Switch (N/O) Normally Open (N/C) Normally Closed
	Contactor (N/C)		Contactor (N/O)

## Common Schematic Drawing Symbols

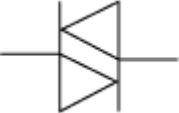


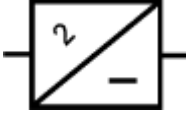
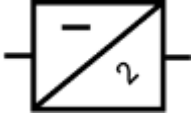
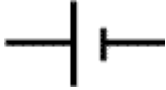
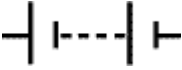
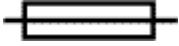
	Limit Switch		Thermal Overcurrent
	Mechanical Interlock		Voltage Transformer
	Potentiometer		Solenoid Valve
	Normally open Contact (N/O)		Normally Closed Contact (N/C)
	Change Over or 2-way Contact Made position		Fused Switch Open Contact (N/O)
	Limit Switch (N/O)		Limit Switch (N/C)
	Flow Switch (N/O)		Flow Switch (N/C)
	Time Delay (N/O) Delay on Closing		Time Delay (N/O) Delay on re-opening
	Thermal Switch - Overload (N/O)		Thermal Switch - Overload (N/C)
	Temperature Switch (N/O)		Temperature Switch (N/C)
	Pressure Switch (N/O)		Pressure Switch (N/C)

Common Schematic Drawing Symbols	
	Normally Open PB (N/O)
	Normally Closed PB (N/C)
	Emergency Stop PB (N/O) Indication Contact
	Emergency Stop PB (N/C)
	Pull Switch (N/O)
	Pull Switch (N/C)
	Turn/Rotary Switch (N/O)
	Turn/Rotary Switch (N/C)
	Contractor Coil
	Relay with AC Supply
	Slow-Release Relay Delay Off
	General Relay (DC Supply)

## Common Schematic Drawing Symbols

	<p>Slow Operating Relay Delay On</p>
	<p>Mechanically Latched Relay</p>
	<p>Diode</p>
	<p>Diode Reverse Conducting</p>
	<p>Diode Reverse Blocking</p>
	<p>Zener Diode</p>
	<p>Transistor (PNP)</p>
	<p>Transistor (NPN)</p>
	<p>Light Emitting Diode (LED)</p>
	<p>Capacitor</p>
	<p>Bidirectional Triode Thyristor (Triac)</p>

## Common Schematic Drawing Symbols

	<p>Diac</p>
	<p>Three-phase winding - Star</p>
	<p>Changer, general symbol Converter, general symbol</p> <p>Notes: (1) If the direction of change is not obvious, it may be indicated by an arrowhead on the outline of the symbol. (2) A symbol or legend indicating the input or output quantity, waveform etc. may be inserted in each half of the general symbol to show the nature of change.</p>
	<p>Rectifier</p>
	<p>Inverter</p>
	<p>Primary cell - longer line positive, shorter line negative</p>
	<p>Battery</p>
	<p>Fuse link, rated current in amperes</p>