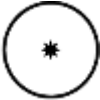


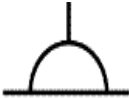


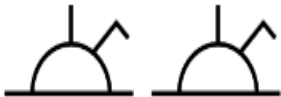
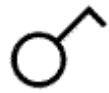
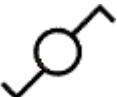
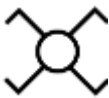
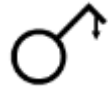






LOCATION SYMBOLS FOR INSTALLATIONS

	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
	Switched socket-outlet
	Twin Switched socket-outlet
	Switch, general symbol
	2 way switch, single pole
	Intermediate switch
	Pull switch, single-pole
	Push button
	Clock, general symbol
	Bell (Audible)
	Buzzer (Audible)



Siren (Audible)



Horn



Telephone handset, general symbol

Popular Symbols - Making and breaking current



Switch



Switch- fuse



Fuse-switch

Isolating



Isolator (Disconnecter), general symbol

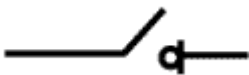


Disconnecter - fuse (fuse combination unit)



Fuse - disconnector

Making, breaking and isolating



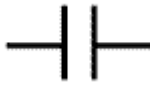
Switch - disconnector



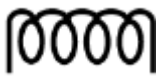
Switch - disconnector - fuse (fuse combination unit)



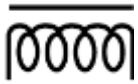
Fuse - switch - disconnector



Capacitor, general symbol



Inductor, coil, winding or choke



Inductor, coil, winding or choke with magnetic core



Semi Conductor Diode - general symbol



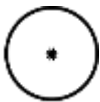
Microphone



Loudspeaker



Antenna, general symbol



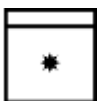
Machine, general symbol
* Function M=Motor G=Generator



Generator, general symbol



Indicating instrument, general symbol
* function V = Voltmeter A = Ammeter etc.



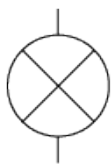
Integrating instrument or Energy meter
* function Wh = Watt-hour
VArh = Volt ampere reactive hour



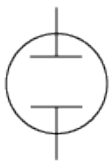
Lamp, or signal lamp, general symbol

Lamps & Lighting

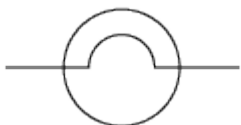
The following table provides the commonly used electrical wiring schematic symbols for push-buttons and lamps which comply with the IEC and BS Electrical Symbols. We have included the Normally Open and Normally Closed status for each contact.



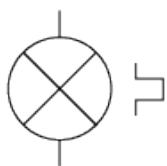
Lamp (Standard)



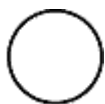
Lamp Standard



Filament Lamp



Lamp (Flashing)



Lighting outlet position - general symbol



Fluorescent luminaire



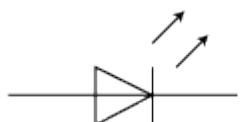
Wall mounted luminaire



Self - contained emergency lighting luminaire






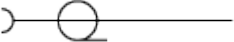

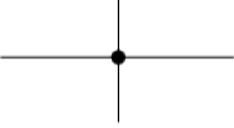

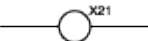
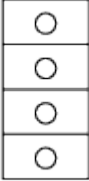

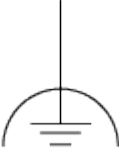
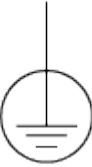
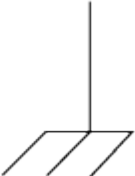

Emergency lighting luminaire (or special circuit)






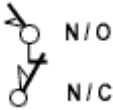


Light Emitting Diode (LED)

Connectors and Earthing

The following table provides the commonly used electrical wiring schematic symbols for connectors which comply with the IEC and BS Electrical Symbols. These connectors include plug and socket, coaxial, terminal and earth connectors.

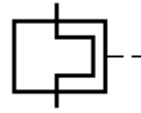
	Plug Male		Socket (plug female)
	Coax Plug Male		Slow Operating Relay - Delay On
	Wire Connections (Two Wires)		Wire Connections (crossed)
	Wires Crossing (Not Connected)		Terminal Connector
	Terminal Block		Earth Connection
	Noiseless Earth		Protective Earth
	Chassis Earth		Equipotentiality

General Symbols

	Ammeter		Voltmeter
	Circuit Breaker		Selector Switch (N/O) Normally Open (N/C) Normally Closed
	Contactor (N/C)		Contactor (N/O)



Limit Switch



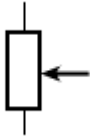
Thermal Overcurrent



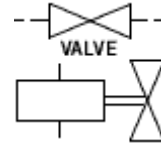
Mechanical Interlock



Voltage Transformer



Potentiometer



Solenoid Valve

Contacts and Switches

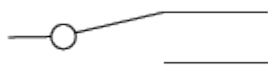
The following table provides the IEC and BS Electrical Symbols for contacts. We have included the Normally Open and Normally Closed status for each contact



Normally open
Contact
(N/O)



Normally Closed
Contact
(N/C)



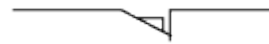
Change Over or 2
way Contact
Made position



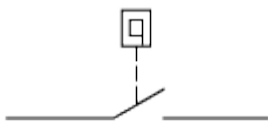
Fused Switch Open
Contact
(N/O)



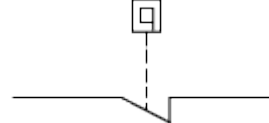
Limit Switch
(N/O)



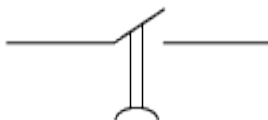
Limit Switch
(N/C)



Flow Switch
(N/O)



Flow Switch
(N/C)



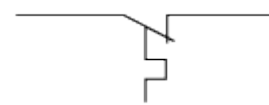
Time Delay
(N/O)
Delay on Closing



Time Delay
(N/O)
Delay on re-opening



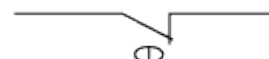
Thermal Switch -
Overload
(N/O)



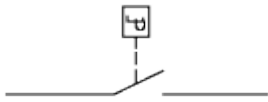
Thermal Switch -
Overload
(N/C)



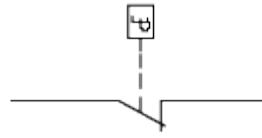
Temperature Switch
(N/O)



Temperature Switch
(N/C)



Pressure Switch
(N/O)



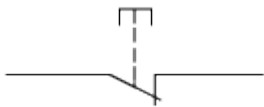
Pressure Switch
(N/C)

Push-buttons

The following table provides the commonly used electrical wiring schematic symbols for push-buttons and lamps which comply with the IEC and BS Electrical Symbols. We have included the Normally Open and Normally Closed status for each contact.



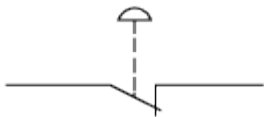
Normally Open PB
(N/O)



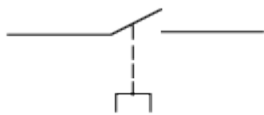
Normally Closed PB
(N/C)



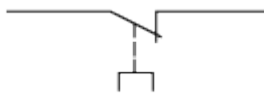
Emergency Stop PB
(N/O)
Indication Contact



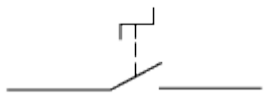
Emergency Stop PB
(N/C)



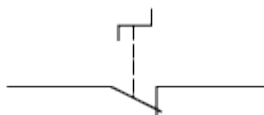
Pull Switch
(N/O)



Pull Switch
(N/C)



Turn/Rotary Switch
(N/O)

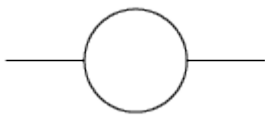


Turn/Rotary Switch
(N/C)

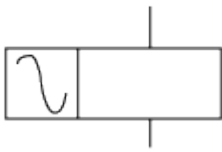
Coils and Relays

Electrical Symbols - Coils and Relays

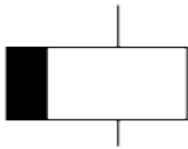
The following table provides the commonly used electrical wiring schematic symbols for coils and relays which comply with the IEC and BS Electrical Symbols



Contractor Coil



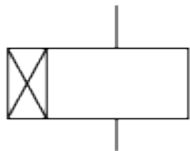
Relay with AC Supply



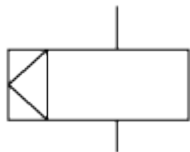
Slow Release Relay
Delay Off



General Relay
(DC Supply)



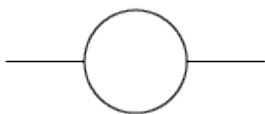
Slow Operating Relay
Delay On



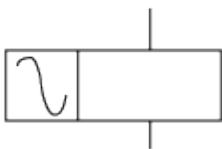
Mechanically Latched Relay

Semi Conductors

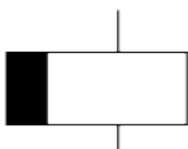
The following table provides the commonly used electrical wiring schematic symbols for coils and relays which comply with the IEC and BS Electrical Symbols



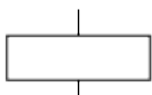
Contractor Coil



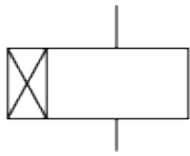
Relay with AC Supply



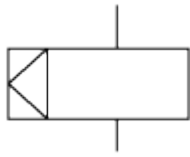
Slow Release Relay
Delay Off



General Relay
(DC Supply)



Slow Operating Relay
Delay On

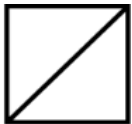


Mechanically Latched Relay

Other Symbols



Three-phase winding - Star

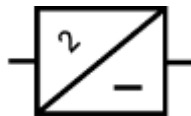


Changer, general symbol
Converter, general symbol

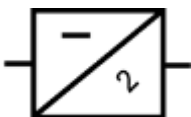
Notes:

(1) If the direction of change is not obvious, it may be indicated by an arrowhead on the outline of the symbol.

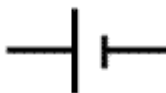
(2) A symbol or legend indicating the input or output quantity, waveform etc. may be inserted in each half of the general symbol to show the nature of change.



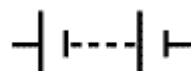
Rectifier



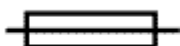
Inverter



Primary cell - longer line positive, shorter line negative



Battery



Fuse link, rated current in amperes