

TRUE/FALSE

1. Push buttons are always shown as normally open.

ANS: F PTS: 1 REF: Push Buttons

2. Limit switches are drawn by adding a wedge to one of the four basic switches.

ANS: T PTS: 1 REF: Sensing Devices

MULTIPLE CHOICE

1. Push buttons that contain multiple contacts are often called ____ push buttons.
a. normally closed c. stacked
b. pull d. lighted

ANS: C PTS: 1 REF: Push Buttons

2. The symbol for a float switch illustrates a ball float. It is drawn by adding a ____ to a line.
a. sphere c. square
b. circle d. triangle

ANS: B PTS: 1 REF: Sensing Devices

COMPLETION

1. Schematics are always drawn to show components in their de-energized, or _____, state.

ANS: off

PTS: 1 REF: Basic Schematics

2. The most common coil symbol used in schematic diagrams is the _____.

ANS: circle

PTS: 1 REF: Sensing Devices

SHORT ANSWER

1. What are lighted push buttons?

ANS:

Lighted push buttons are an example of providing a second function in a single space. They are generally used to indicate that a motor is running, stopped, or tripped on overload. Most lighted push buttons are equipped with a small transformer to reduce the control voltage to a much lower value. Lens caps of different colors are available.

PTS: 1

REF: Push Buttons

2. Describe the contact symbol.

ANS:

Another very common symbol used on control schematics is the contact symbol. The symbol is two parallel lines connected by wires. The normally open contacts are drawn to represent an open connection. The normally closed contact symbol is the same as the normally open symbol with the exception that a diagonal line is drawn through the contacts. The diagonal line indicates that a complete current path exists.

PTS: 1

REF: Sensing Devices