



**KLS'S GOGTE INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING**

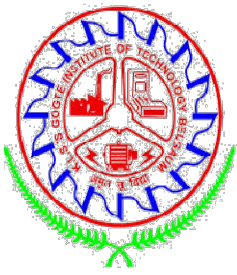


CREINTORS AUTOMATION SOLUTIONS PVT.LTD.

PRESENTS

HONOR'S PROGRAM IN PLC PROGRAMMING





Syllabus of Course



1. Basics of PLC

2. PLC Programming

3. SCADA Programming



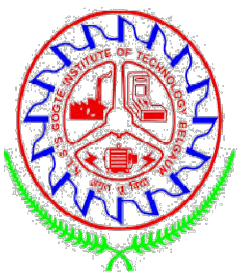
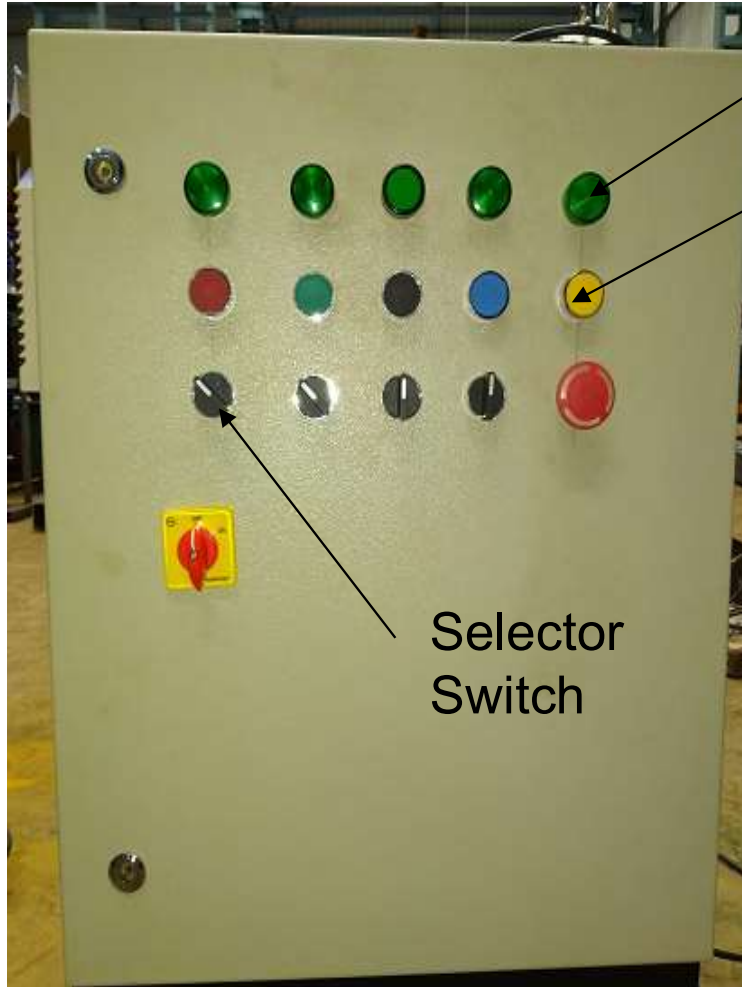


Photo of Panel



Indicators

Push Buttons

Selector Switch

PLC

PLC Expansion Module

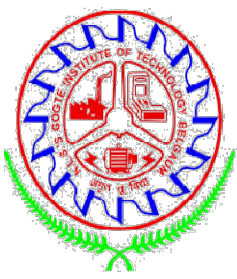
Relay Module

Power Supply
24V DC

Outgoing
Connectors

MCB





Components Used in Panel



Model - Micrologix 1400



PLC - Expansion Module



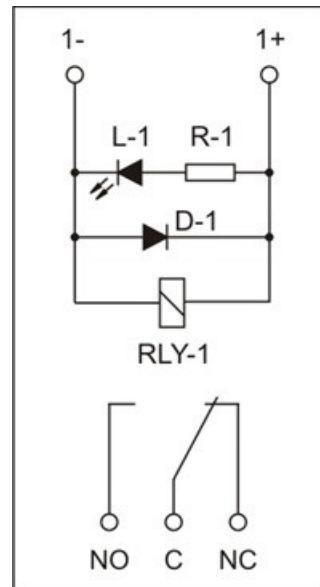
MCB



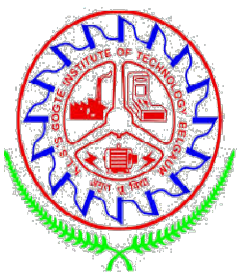
Power Supply 24V DC



Relay Module



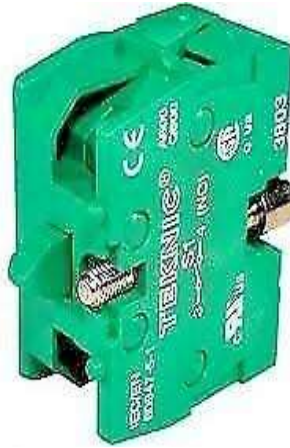
Compact - Relay Module



Components Used in Panel



Push Button -
Emergency OFF



Contact
Elements NO



Contact
Elements NC



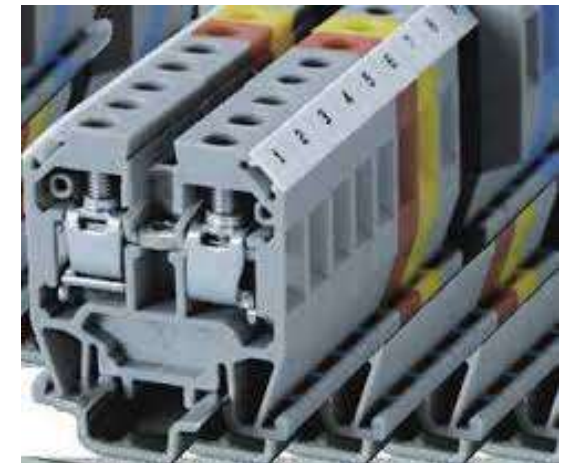
Selector Switch



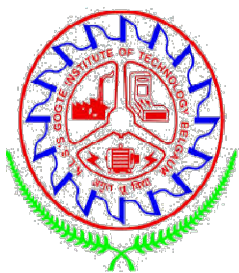
Push Button



Pilot Lamps



Clip on Connector



Components Used in Panel



Proximity Switch -
Non Flush Type



Proximity Switch
- Flush Type



Limit Switch



Level Switch



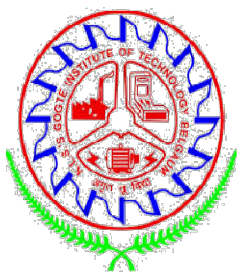
Temperature Switch



Pressure Switch



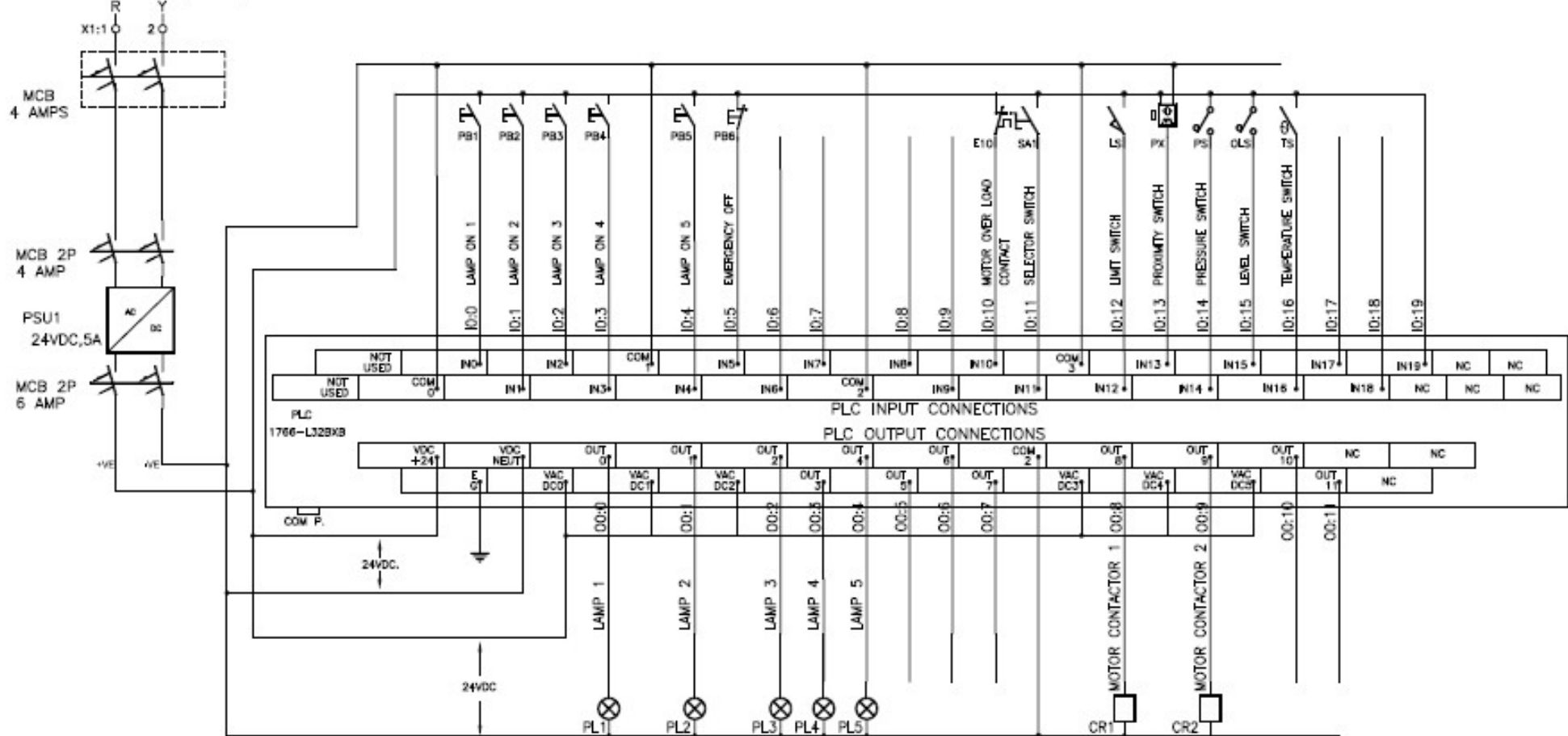
Safety Light Barrier Sensor



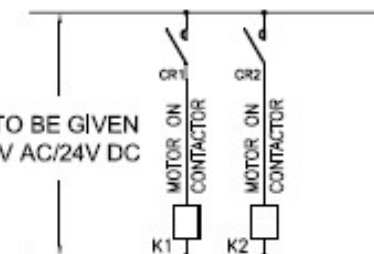
Electrical Circuit

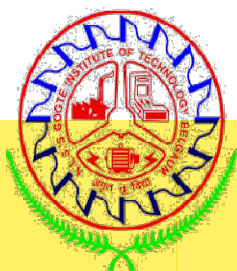


INCOMING POWER 1PH, 230V, 50Hz



SUPPLY TO BE GIVEN
i.e. 230V AC/24V DC





Basic Ladder Logic “Bit” Instructions



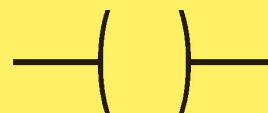
Normally open contact



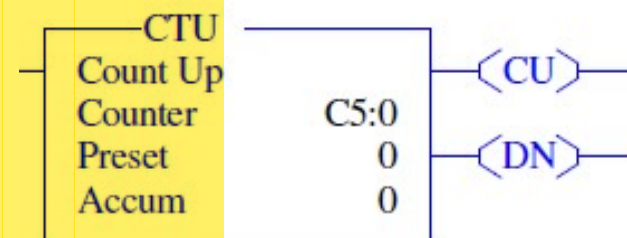
Normally close contact



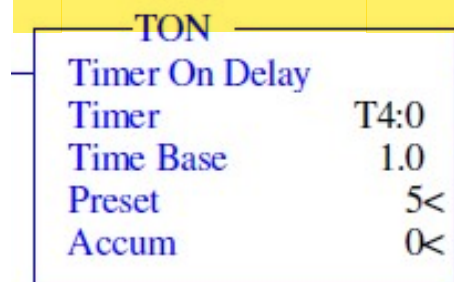
Coil



Counter UP

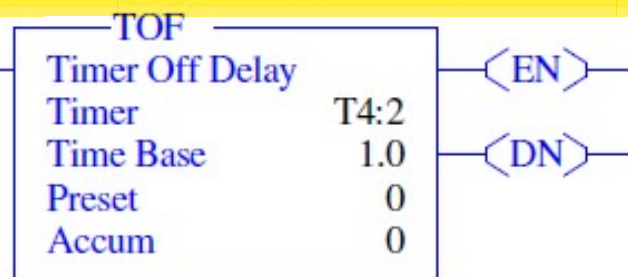


ON-Delay Timer

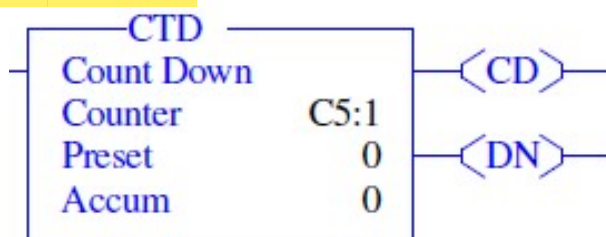


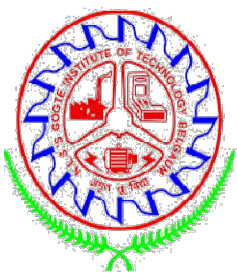
OFF-Delay Timer

OFF DELAY TIMER



Counter DOWN

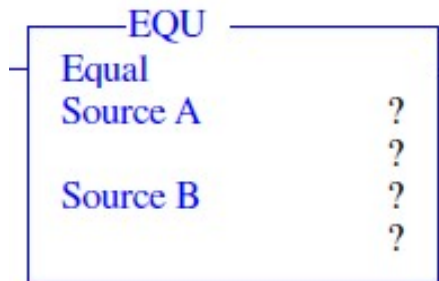




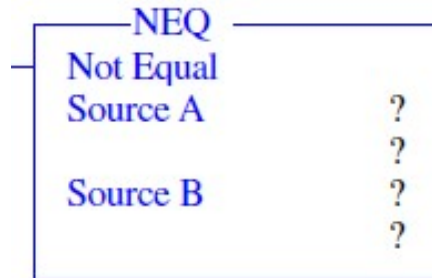
Basic Ladder Logic “Bit” Instructions



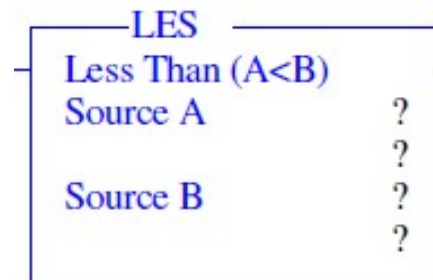
Equal To



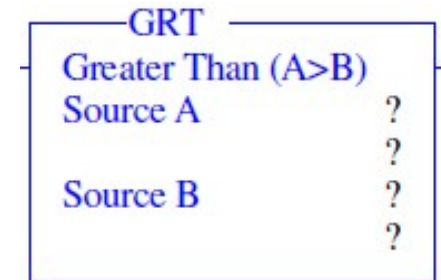
Not Equal To



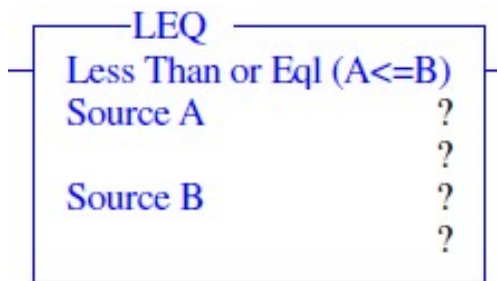
Less Than



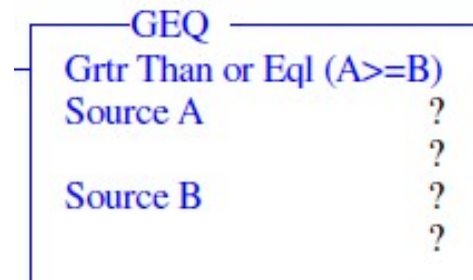
Greater Than



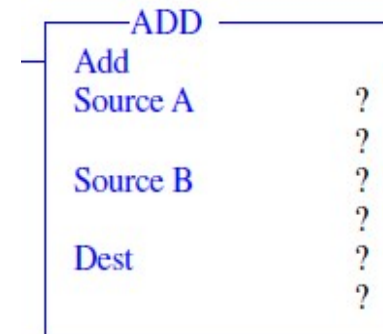
Less Than or Equal to



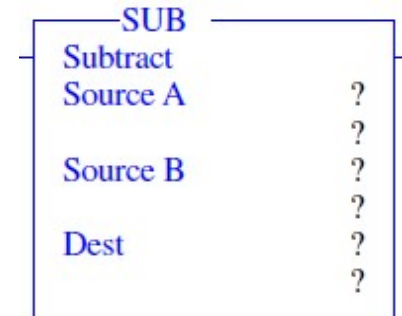
Greater Than or Equal To



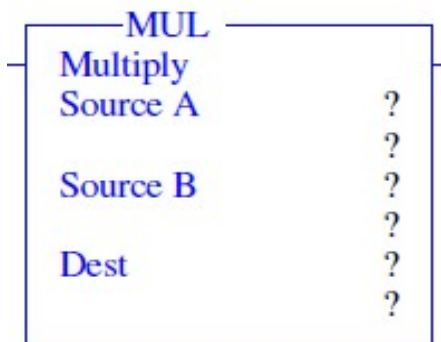
Addition



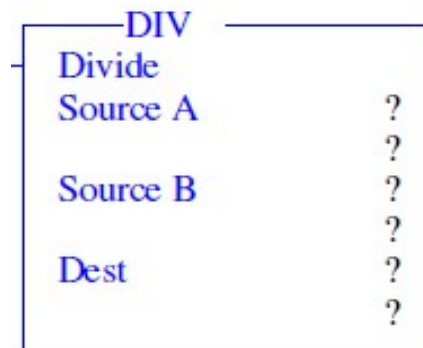
Substraction



Multiplication



Division



A black and white photograph of a perforated metal surface, possibly a grate or a screen. The surface is covered with a grid of small, circular holes. The lighting is dramatic, with strong highlights and deep shadows, creating a textured appearance. The text "THANK YOU" is overlaid in the center in a bold, white, sans-serif font.

THANK YOU