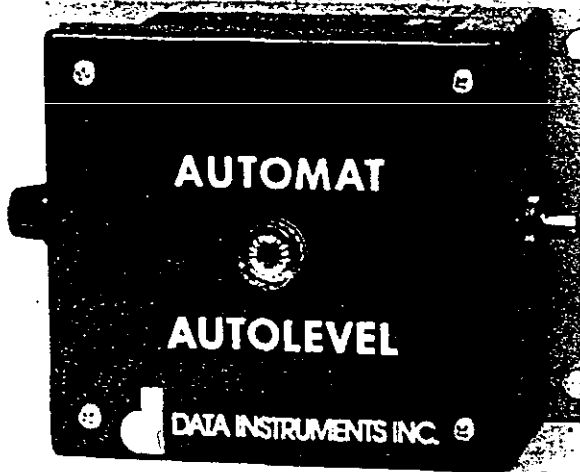


AUTOMAT-AUTOLEVEL



AUTOMAT-AUTOLEVEL DESCRIPTION — The Automat-Autolevel is a compact, inexpensive, low voltage electronic control designed for use with power presses, coil handling equipment, and automated assembly equipment. The control works in conjunction with a variety of contact or non-contact sensors to detect a fault in a given operation and subsequently stop the controlled equipment.

AUTOMAT APPLICATIONS — In its AUTOMAT mode, the unit is designed to detect misfeeds, end of stock, buckling, stripper position, and other feed control sensing situations. Where space is at a minimum the sensors or probes may be made by the user to suit the specific applications. The probes are smaller and more durable than switches, and eliminate high voltage and contact bounce problems.

AUTOLEVEL APPLICATIONS — Used in the AUTOLEVEL mode, the IC510AC provides loop control when used in conjunction with remote probes. The unit commands the stop-start cycle of the stock reel.

NOTE: This unit is highly suitable for light materials which cannot tolerate heavy physical contact.

The AUTOLEVEL control can also be used to maintain a constant feed-rate between a feed mechanism and a press or other machine. Where a hopper feeds parts faster than the machine can handle them, or a wind-off reel feeds material too quickly, the AUTOLEVEL control switches the drive motor or control circuit on and off to maintain an appropriate feed rate. With the electrical control unit located remotely from the probes, a wide range of operating conditions can be obtained.

AUTOMAT OPERATION — The unit has 4 inputs by which it may be operated. The first is a normally above ground, ground to stop circuit (yellow). The second and third are normally grounded, break to stop circuits (red). The fourth is a normally closed stop circuit (remote stop).

Because it is a low voltage unit, any low resistance probe or contact may be used as an input control. Several yellow sensors (normally open to ground) may be used in parallel at one time. A closure of any one of these contacts to ground results in machine shutdown.

The AUTOMAT is wired in series with the press STOP circuit. Thus, it stops a press automatically a few thousandths of a second after a malfunction is detected.

AUTOLEVEL OPERATION — Two insulated probes are mounted in a location where feed level is to be controlled. One probe controls the maximum level or position, the second probe controls the minimum level or position. The probes are grounded when the stampings, parts, or material being fed into the machine make physical contact with the probe tip. In the event that the part or material does not represent ground potential, switch probes must be used.

GENERAL SPECIFICATIONS:

Sensing Inputs: 2 - Red N.C. to ground,
1 - Yellow N.O. to ground,
1 - Reset (low voltage)

Enclosure:

Sealed modular construction for protection against lubricant splash or excessive humidity.

Input Power 115 VAC 1Ø

Mounting:

Any position (shock mounts provided)

Input Impedance: Less than 330 ohms to ground will yield a signal

Note:

This unit will control AC or DC circuitry

Output:

H.D. Relay Contacts
10 amps @ 115 VAC

