

## *FEEDER EQUIPMENT MA-800 MACESA*

### Technical Data Equipment

The MA-800 photoelectric amplifier, you can cycle through mechanical work (brake cam-seize) by micro switches, proximity switches or PLC and / or photoelectric head TS-80 (or another of the same characteristics).

The TS-80 head, incorporates amplifier, variable sensitivity and depth of change indicator shot. The distance between the target and to detect the material is 8mm or other distances on request.

The color of the mark to be detected is indistinct, with the only exception that has to be a differentiation of at least 5% of the medium on which color is printed.

The minimum of the mark must be 5mm long and 3mm wide.

The coils of clutch and brake have to be 24 Vdc. And 1.5 Amp. Maximum.

The impulses of 90 V. Degaussing of tension and on the clutch / brake, adjustable time and intensity by 4 multi potentiometers located on the printed circuit 1 controls (Maximum time 90 msec.).

Are located at the base, a 1 Amp fuse. Two 2 amp fuses. That protect the entrance to the 1 Amp transformer. And the output transistors, 2 Amp.

When the cam clutch (terminals 13 and 10) connects, there is the connection and disconnection of the clutch brake. Automatically produces the movement of the material until the end of the cycle (cam clutch has disconnected), connect the brake cam (terminals 13 and 11) the stopping material, this is called end-of-cycle mechanic.

The clutch and brake cam, have a small area (30 °) and the impulses from micro switches, sensors, or robots are of short duration.

While we agree with both the two input pulses (Brake and Clutch) will not happen because the MA-800 amplifier incorporates protection for the item you are working on continuing tension and the other channel will be blocked until the anomaly is removed .

Working with the photoelectric head TS-80, the movement of the material is also produced by the connection of the cam clutch being unemployed through the signal that sends the head, produced by the mark printed on the material to be controlled.

Cam blinded (terminals 12 and 13) is insurance whose mission is to block any signals that send the head off the point of work, in other words, limits degrees cycle time machine that has the head to activate the brake.

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Its work is normally closed to open a few centimeters before the head to be read to detect the mark and can return to close immediately after the occurrence of the stoppage of the material.

The head switch Focus (terminals 3 and 4) is provided for if you want to work in unmarked or anonymous material, and by a switch to cut power supply to the projector lamp head.

The MA-800 amplifier incorporates 5 leads control to display the correct operation of the cams (3 leads green) and the element that is working at all times (2 leads red).