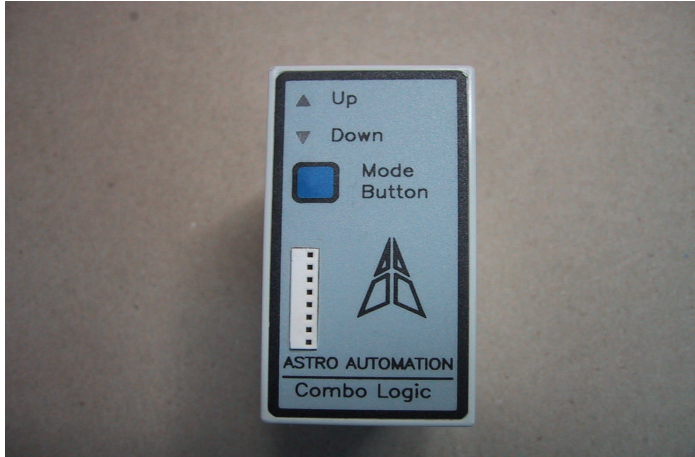




MAGDRIVE

Info



PROGRAMMABLE BARRIER LOGIC VEHICLE DETECTOR

BD 2000 SERIES

BD2000.PUB

ISSUE 24 MAY/01

DESCRIPTION

The BD 2000 is a MICROPROCESSOR based barrier/gate control logic incorporating a vehicle Detector for compact and cost-effective barrier control.

Logic and detector operating parameters are PROGRAMMABLE using a small interface module to load the desired software into a non-volatile memory. The interface module can also be used for real-time DISPLAY of logic function. Once operating parameters are set, the interface module is removed and the detector becomes TAMPER-PROOF as there are no switches or knobs that can be adjusted.

APPLICATIONS

Suitable for the direct control of parking barriers based on drive systems that do not require limit switches. For limit switch based drives, additional switching is required. Ticket dispenser and cash register controls are catered for.

FEATURES

ADJUSTABLE AUTO CLOSE

Set the time after which the barrier should close in the event of the vehicle not traversing the loop.

ADJUSTABLE ROLL-BACK TIME

Set the time after the vehicle exits the loop in which it can re-enter the loop and cause the barrier to re-open.

SELECTABLE LOOP FREQUENCY

Overcome cross-talk between adjacent loops by choosing one of two operating frequencies.

SELECTABLE ACTUATION COUNT (MEMORY)

Increase your traffic flow by selecting the memory function which will count the opening input actuations and only cause the barrier to close after the vehicles have passed through.

MANUAL CONTROL

Maintenance is facilitated by direct manual control on the face of the module.

TICKET DISPENSER INTERLOCK

Prevent tickets being issued when the barrier is in the raised position.

AUTOMATIC CLOSING

Integral loop detector closes barrier after vehicle has passed through.

ADJUSTABLE DETECTION AND RELEASE SENSITIVITY

Set the detection sensitivity (in steps of 0,02% $\Delta L/L$) as desired then choose a level for release (undetected). In this way you can choose your "Automatic Sensitivity Boost" to suit the application.

TECHNICAL DATA**SUPPLY POWER**

BD 2230 230V AC 50Hz
BD 2115 115V AC 50Hz
BD 2024 24v AC
BD 2012 12v DC

INPUTS

Contact closure or open collector
NPN transistor edge triggered OR
level triggered with inhibited
delatch.

**TICKET DISPENSER
OUTPUT**

Open collector NPN
transistor rated at 40V, 400mA.

**OPEN/CLOSE
OUTPUT**

Relay switched mains live
voltage rated at 16A max.

AUTO-CLOSE TIME

Adjustable to 127 seconds.
Factory preset at 120 seconds.

Factory preset at 2 seconds.

MODE BUTTON

Selectable as permanently "open",
permanently "closed" or "auto".

DETECT

Maximum 0.02% Δ L/L

SENSITIVITY

Minimum 5.12%

RELEASE

Maximum 0.02%

SENSITIVITY

Minimum 2.56%

LOOP INDUCTANCE

Self-tuning 10 μ H to 1mH

CONNECTOR

11 pin submagnal

**LOGIC MODULE
SIZE**

75mm (high) x 40mm (wide) x
16mm (deep) - excluding connector.

SURGE**PROTECTION**

Gas discharge and zener
clamping on isolated loop input,
MOV on power input.

TERMINALS

- 1 230V AC LIVE CIRCUIT BREAKER
- 2 230V AC NEUTRAL
- 3 MAINS EARTH
- 4 BARRIER RAISE OUTPUT 230V AC
(4 μ F CAPACITOR BETWEEN)
- 5 BARRIER LOWER OUTPUT 230V AC
- 6 NEGATIVE FOR INPUTS & LOOP INPUT
- 7 CASH REGISTER OR TICKET VENDOR INPUT
- 8 CARD READER OR FREE EXIT INPUT
- 9 CLOSING LOOP INPUT
- 10 LOOP INPUT

} LOOP TERMINALS

ROLL-BACK TIME

Adjustable from 31 to 0 seconds.