

Electromechanical Barriers



General Description

Electromechanical barriers are designed for the controlled flow of traffic, especially for the parking places.

CABINET

Barrier cabinet is designed to IP 55. Body front lid and top lid is manufactured from A1 Quality Steel. They are phosphate plated, painted to RAL 2004 and then furnace. Anchoring to the floor is achieved by a galvanized anchoring plate. There are air circulation openings on the front lid which is opened by a key.

CONTROL ELECTRONICS

Optima barriers are controlled with the help of advanced microelectronics. Barrier works with 220-240V, 50-60 Hz. Every kind of radio control receiver cards, safety photocells, open/close buttons, loop detectors, flashing lights etc. can be integrated to the control electronics easily. Closing the barrier can be utilized by automatic time delay facility, as well as inputs from other sources. Time delay can be adjusted between 0-50 seconds. Control electronics is mounted in a IP 65 proof plastic box, as most of the installations are made outdoors. Unit comes with a start stop button.

MOTOR AND REDUCER

A high torque AC motor is utilized in the barrier. Coupled to the motor, there is a reducer with 1/62 reduction ratio. Casing of the reducer is injection aluminium, preventing formatting of rust. All the gears in the reducer (worm, spur etc.) are heat treated so that wear is reduced to a minimum. Single row, radial contact ball bearings are utilized for smooth operation. A cooling fan exists at the back of the motor, running full time to cool the motor.

ARM

Arm is aluminium with a special elliptical like cross section design. This special design enables a safety gasket to be mounted under the arm, besides increase the arm's inertia (i.e. increased durability against impact, wind force etc.) It is manufactured by a special mould, with extrusion process. On the arm, there are red phosphorescent stickers as a night time warning. Two ends of the arm is closed by aluminium coloured plastic caps.

MECHANISM WITH MANUAL OPERATION

All the elements of the mechanism are manufactured on CNC machines. A 10 mm allen key is put through a hole on the outer surface of the barrier to provide manual operation by hand.

ENVIRONMENTAL CONDITIONS AND POWER REQUIREMENT

Between -15°, and + 55°C, %95 non-condensing humidity; 220V 50-60 Hz.

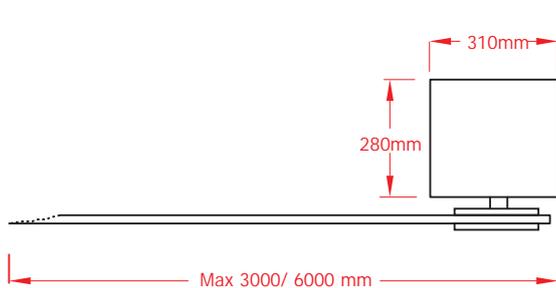
OPTIONAL ACCESSORIES

1. Flashing lamp (flashes while the arm is in motion)
2. Barrier skirt (aluminium)
3. Protection bar (2" tubing, galvanized, RAL 2004 painted, furnaced)
4. Safety photocell
5. Stand and casing for safety photocell against direct sunlight, rain, snow, etc.
6. Loop detector
7. Radio receiver card
8. Transmitter
9. Antenna
10. Stop sign in the middle of aluminium barrier arm
11. LED light under the aluminium barrier arm

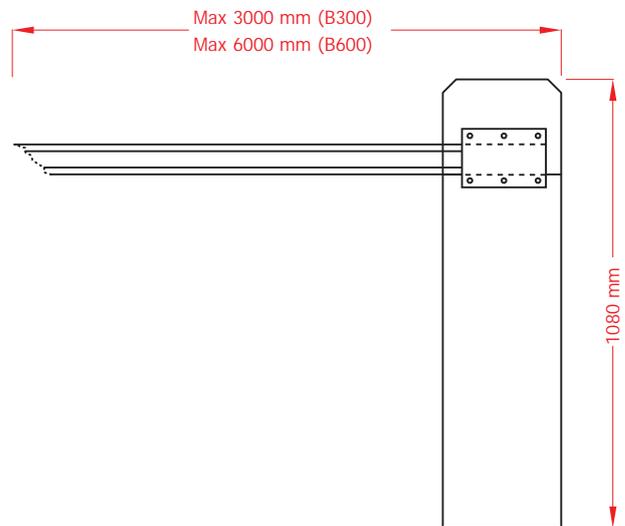
TYPE DESCRIPTION

B300 3m maximum arm length, opening time approximately 3 seconds

B600 6m maximum arm length, opening time approximately 6 seconds



TOP VIEW



SIDE VIEW