Engineering Systems

Mechatronics

Barrier system

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Main features:

- Fail safe barrier closing by gravity on release the supply of the Barrier or system fault.
- Manual or automatic selectable operating mode.
- Adjustable opening and closing time of the barrier between 8 and 15 seconds.
- Mechanical fuse to prevent the barrier from damage due to collision and wind load.
- Hand crank for manual operation.
- Barrier length up to 10 Meters.
- Barrier arm made of Aluminum or fiberglass.
- Overvoltage and overcurrent protection.
- Signals indication for position and status of the barrier.
- Low maintenance and easy access to the interior elements of the mechanism.

Modes of operations:

Mechanical switching between automatic or manual crank operation, and barrier turning axis, by gears and cam system.

Automatic mode:

The barrier is kept in opening position (85° - 90°) by the holding mechanism.

When the barrier received an order to close the holding mechanism release the barrier and the motor turned on for moving the barrier down. After the barrier closed the lock device turned on to keep the barrier in horizontal position.

When the barrier received an order to open, the lock device turned off to allow the barrier moving up by the motor. When the barrier going up to the open position the motor turned off and the holding mechanism has been switched on.

Manual mode:

The automatic mode can be deactivated by rotating a special locking arm and can be operated manually. The motor and the brake mechanism are deactivated thus allowing the barrier arm to be moved by hand crank.

Basic technical parameters

Rated voltage	24Vdc	Cabinet material	Steel
Motor starting current	up to 17 A	Beam length	Up to 10 m
Motor rated current	up to 15 A	Opening / closing time	Up to 16 seconds
Holding system current	0.5 A	Protection	IP 54