TB 900 SERIES

ELECTROMECHANICAL ARM BARRIER

MAKİNE OTOMASYON ELEKTRİK ELEKTRONİK SANAYİ VE TİCARET LTD. ŞTİ.

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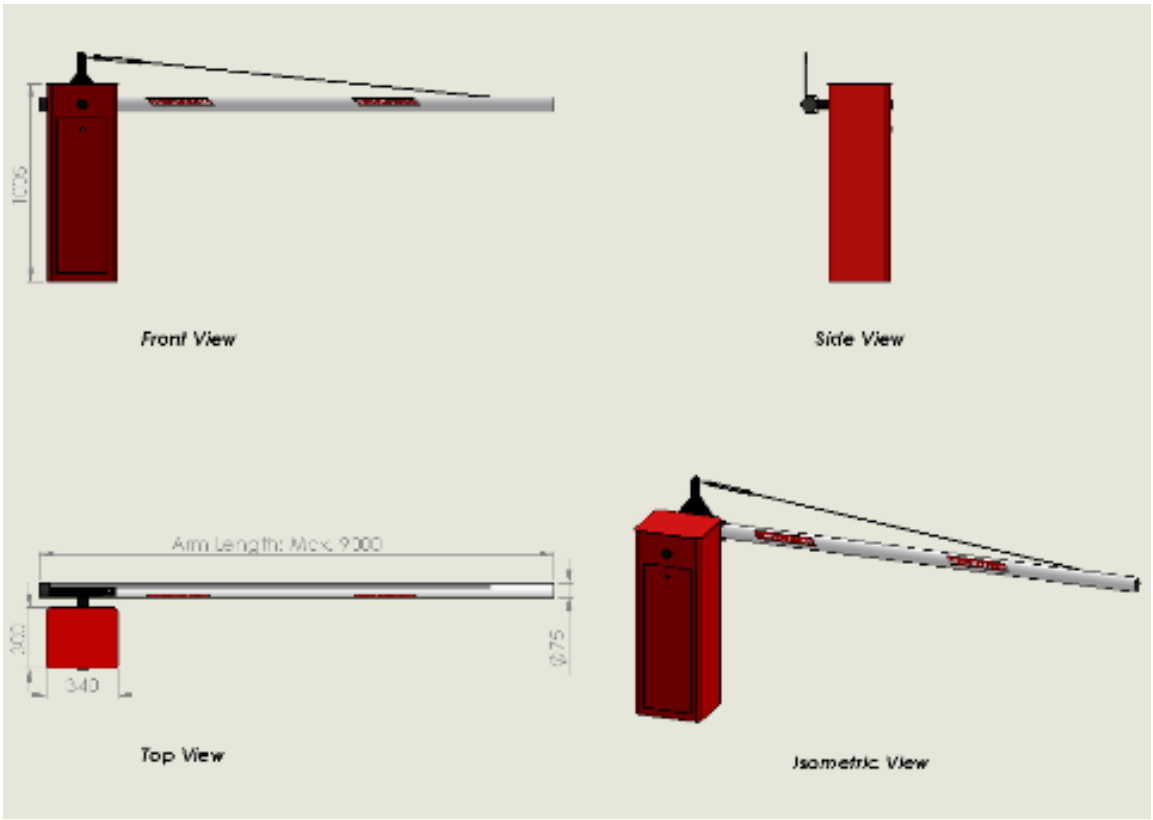
GENERAL INFORMATION

TB 900 series electromechanical rising arm barriers are ideal solutions in order to provide security access or traffic control in larger entrance-exit points. These barrier systems have a variety of usage areas such as large vehicle parking areas, government offices, military compounds, industrial areas, business centers and many places that requires vehicle access control. TB 900 series arm barriers which have longer arms are suitable to use in specific applications for access control of larger entrance points or roads.
TB 900 series arm barriers are designed to fulfill the latest requirements of industry and harsh environmental conditions. Although the drive unit is electromechanical, in case of a power failure, it is possible for barrier system to be lifted and lowered manually. Arm barriers can be integrated with other kinds of security access systems.

MAIN CHARACTERISTICS

- 8 seconds of operation time,
- 9.00 meters of maximum arm length supported with steel rope,
- Thanks to its mechanical design, arm can be mounted in reverse direction,
- Easy to install, low maintenance cost,
- In case of power failure, manual opening and closing from the propeller on the motor,
- The system can handle more than 5000+ movements per day,
- Have an aesthetic and elegant design,
- Can be integrated with other access control systems.

DIMENSIONS



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PHYSICAL CHARACTERISTICS

CASE DIMENSIONS	340mm x 300mm x 1005mm (W x L x H)
BARRIER ARM	75mm of diameter, 9000mm (standard), aluminum alloy, warning reflective stripes on the color of white (RAL 9016), 6 mm diameter steel plastic covered rope
MECHANISM	Drive unit consists of electric motor, reducer (gearbox), mounting parts and there is a spring mechanism which helps rising-lowering movement of the arm.
BARRIER CASE	Manufacture of 2 mm thickness of electrostatic painted DKP steel sheet plate barrier case, 304 grade stainless steel is optional, motor and gearbox holder is 10 mm electrostatic coated steel sheet, 10 mm galvanized slotted external mounting steel plate for robust and easy installation
TOP COVER	5 mm thickness of electrostatic painted DKP steel sheet plate (standard), 30 mm cast aluminum with LED stripe to enhance visibility (optional)
MECHANICAL ELEMENTS	Stainless steel, aluminum, galvanized coating, plastic materials are preferred for the mechanical elements of mechanism according to requirements

OPERATIONAL CHARACTERISTICS

OPERATION	Electromechanical
POWER (MOTOR)	220 VAC, 50-60 Hz, 1 Phase, 0,75 kW
RISING/LOWERING TIME	6-8 seconds at 7-9 meters arm
OPERATION FREQUENCY	5.000 + continuous movements with %100 duty cycle
SPEED/MOVEMENT CONTROL	Smooth operation with PLC inverter panel
POSITION CONTROL	Inductive limit switches (weather proof) with physical position adjustment for up and down positions
OBSTACLE DETECTION	Arm can detect obstacles in both direction and reverse operation instantly
CRASH ARM KIT	Optionally, arm releases itself from its mounting point, activate the alarm and warning signal in the situation of hitting by a vehicle (Breaking arm signal feature can be integrated with other access control systems)
AUTO CLOSE	Closing automatically in adjustable time

RESISTANCE CHARACTERISTICS

ENVIRONMENTAL CONDITIONS	-25 °C / +70 °C, %100 RH or less humidity (without condensation)
PROTECTION CLASS	IP 65

EQUIPMENT AND ACCESSORIES

MANUEL OPERATION SWITCH	When switch turns on, barrier arm is raised without triggering any alarm or any other commands. When switch is off, barrier arm is lowered and continues to its automatic operation. (Optional)
CRASH ARM MECHANISM	In a case of a vehicle hits arm barrier, the arm is displaced from its mounting point and alarm is activated by a proximity sensor, in order to save the mechanism of barrier from damage and detect the hostile vehicle. (Optional)
OPTIONAL ACCESSORIES	Button control, Loop Detector, Safety photocell, Traffic light, LED Top Cover, RF Receiver, RF Transmitter, RF Antenna

CERTIFICATIONS AND WARRANTY

CERTIFICATIONS	ISO 9001:2015, ISO 14001:2015, OHSAS 18001, CE, TSE
WARRANTY	2 years

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