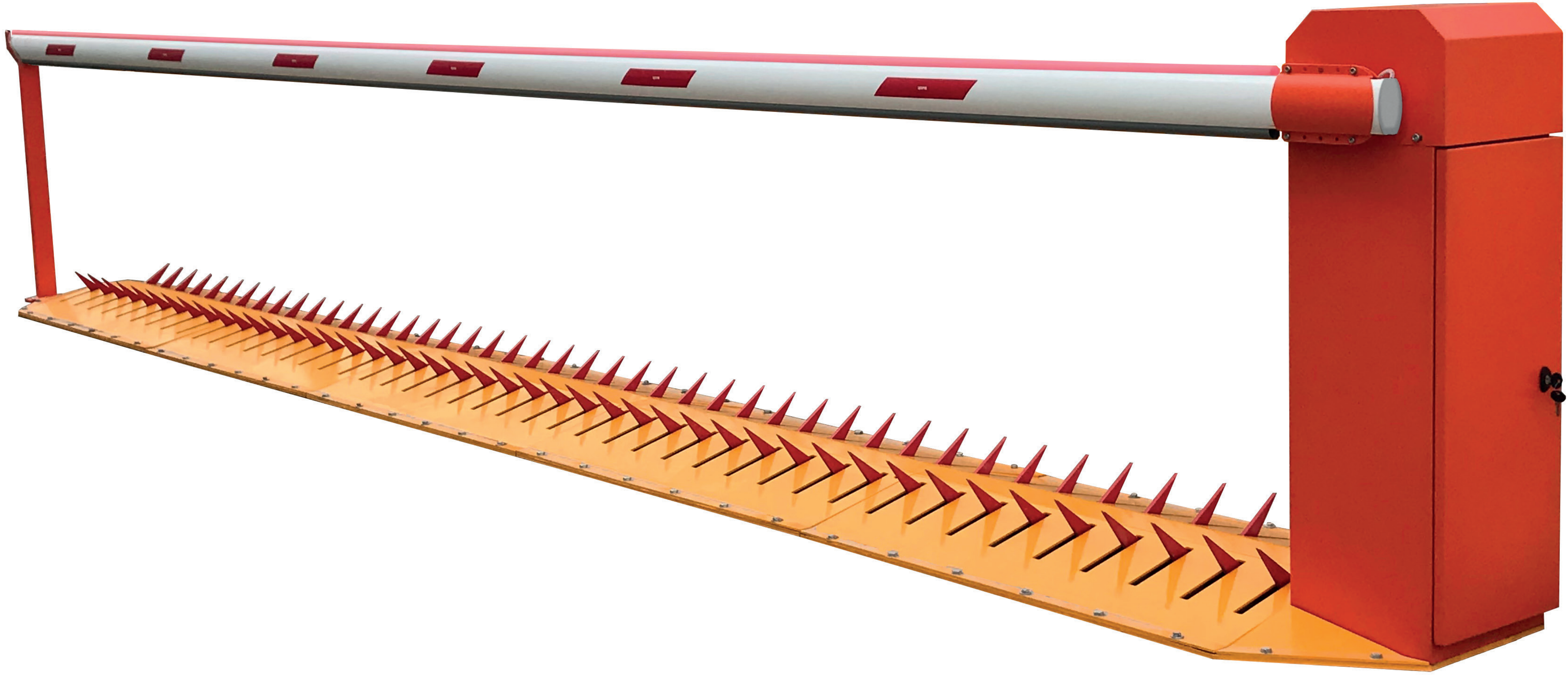


BTK-300SM/BTK-600SM



GENERAL DESCRIPTION

Electromechanical tire killer with arm barrier is one of the highest security vehicle access control systems in which a vehicle without permission cannot enter. Tires of the unpermitted vehicles explode immediately, therefore the vehicle moves only a few more meters and stops. The product stops vehicles coming from both directions. Teeth of tire killer move all together. The drive unit is placed to one end of the tire killer, it stands above the ground level. The arm barrier, which is connected to the drive unit, is another safety feature. It is a mechanism that allows the passage of vehicles by working together with tire killers.

Optima BTK-SM series surface mount electromechanical arm barrier with tire killers are suitable solutions which is not possible to dig into the ground. The barrier with tire killer does not have any depth. It can be placed to ground directly if the ground is strong enough.

CONTROL ELECTRONICS

Optima Electromechanical tire killer with arm barrier is controlled with the help of advanced microelectronics. The barrier works with 220-240 VAC, 50-60Hz. Every kind of radio control receiver cards, safety photocells, open/close buttons, loop detectors, flashing lights, etc. can be integrated into the control electronics easily. Closing the barrier can be utilized by the automatic time delay facility, as well as inputs from other sources. Control electronics are mounted in an IP 67 proof plastic box, as most of the installations are made outdoors.

CABINET

Barrier cabinet is designed to IP 55. Body front lid and the top lid is manufactured from galvanized steel. The cabinet is painted to RAL 2004 and then furnace. There is also locking mechanism in the front lid of the cabinet.

ARM

The arm is aluminum with a special elliptical like cross-section design. This special design enables a safety gasket to be mounted under the arm, besides increasing the arm's inertia (i.e. increased durability against impact, wind force, etc.) It is manufactured by a special mold, with the extrusion process. On the arm, there are red phosphorescent stickers as a night time warning. Two ends of the arm are closed by plastic caps. On top of the arm, there is a LED light strip which is red when the road is closed and green when the road is open (optional).

TEETH

Splitting teeth utilized in tire killers are manufactured from high strength steel. When closed, the tire killer is designed to withstand 50 tons axle load. As it will generally be installed outdoors, all the elements of the body, teeth and drive unit are galvanized. The driving axle on which the teeth are welded is supported by ball bearings, therefore both smooth operation and durability against high axle loads are achieved.

OPTIONAL ACCESSORIES

- ➔ Push button box.
- ➔ Red/green traffic lights with steel pole.
- ➔ Flashing light (flashes while the arm is in motion).
- ➔ LED light under the aluminum barrier arm.
- ➔ Safety photocell.
- ➔ Stand and casing for safety photocell.
- ➔ Pneumatic edge safety sensor.
- ➔ Dual vehicle safety loop detector.
- ➔ Radio receiver & antenna.
- ➔ Radio transmitter.
- ➔ Wrong way alarm.
- ➔ High speed alarm.
- ➔ Protection bar for barrier cabinet.
- ➔ Barrier skirt (aluminum).
- ➔ Stop sign in the middle of barrier arm.
- ➔ SCADA or any control system: It is possible to change and check the position of bollard with touch screen control panel, mobile devices (ios-android), computer, etc. .

ENVIROMENTAL CONDITIONS AND POWER REQUIREMENTS

- ➔ Between -15° and $+65^{\circ}$, %95 non-condensing humidity; 220-240 VAC 50-60 Hz.
- ➔ Power Consumption 650 W (Max).

TYPE DESCRIPTION

BTK-300: 4m maximum arm length, operating time approximately 3 seconds.

BTK-600: 6m maximum arm length, operating time approximately 6 seconds.

MAIN BODY MEASUREMENTS AND FOUNDATION

