



WHAT IS IT?

Forteza Tribo-M is a special fence protection system. The main part of the system is a control unit where the deformation sensitive cables are connected. *Forteza Tribo-M* system has four detector inputs (zones) for deformation detection cables. The length of one zone is up to 300 m.

WHERE IS IT USED?

Forteza Tribo-M system can be used to guard various areas. Deformation detection cable is installed on any type of fences made of:

- "rabitz" wire netting;
- welded galvanized wire;
- spiral steel barbed wire;
- mesh wire;
- flat reinforced barbed tape;
- wooden, brick, ferroconcrete, steel barrages;
- metal grates etc.

HOW IT WORKS?

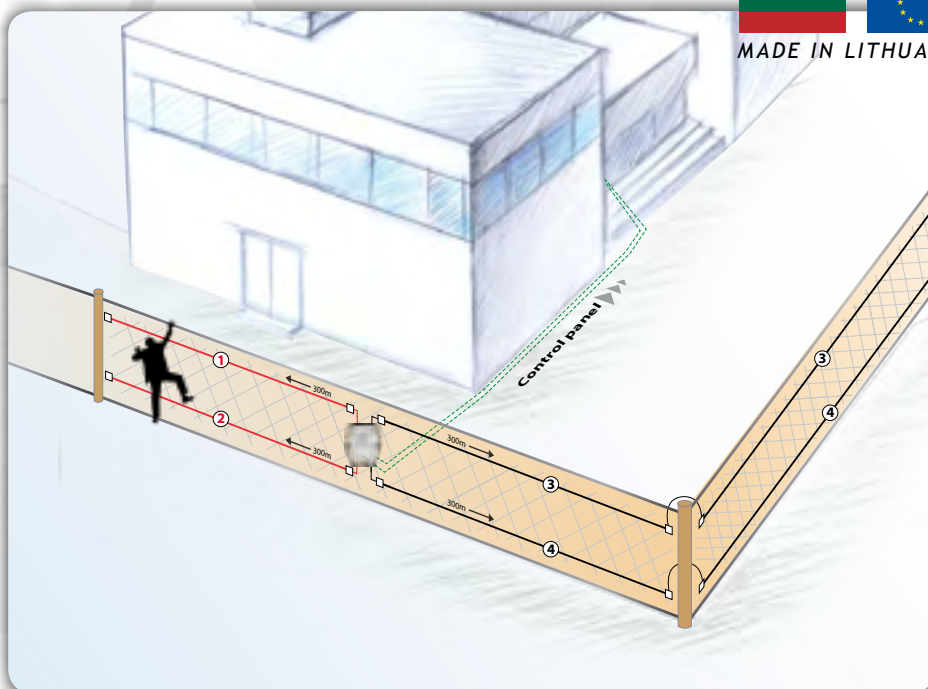
- Sensitive cable is installed on the fence and connected to the detector *Forteza Tribo-M*.
- The intruder, trying to climb over the fence, deforms it in several places.
- Deformation is transmitted to the sensitive cable fixing points.
- Processing unit (detector *Forteza Tribo-M*) detects deformation of cable.
- Alarm signal is generated when the optoelectronic relay contacts are switched off.

WHY TO CHOOSE IT?

- Quick and easy installation; simple and convenient operation;
- Performance/price ratio is one of the biggest advantages over similar detectors.
- You can choose between different deformation detection cable lengths.
- Easy remote control via computer software.

THE DETECTOR IS FUNCTIONAL AND DOES NOT GENERATE FALSE ALARMS WHEN:

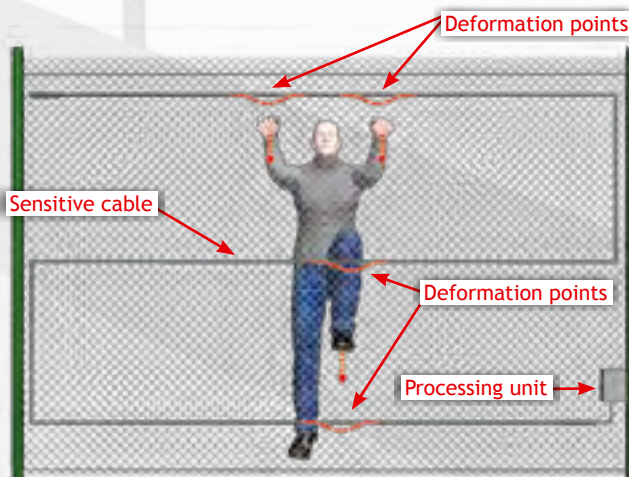
- The train is moving near the fence at a distance not less than 100 m;
- Precipitation in the form of rain (intensity up to 40 mm/h), snow and hail (in terms of water) (intensity up to 10 mm/h), gradually increasing to a maximum value, not faster than 2 min.;
- Work VHF radio power up to 5 W at a distance not less than 2 m;
- Electromagnetic and acoustic interference in the storm;
- Single mechanical effects on the barrier (stick, ball, stone, etc.);
- Product is resistant to weather, solar radiation, dynamic dust exposure;
- Detection probability is not less than 0,95.



THE MAIN TECHNICAL CHARACTERISTICS:

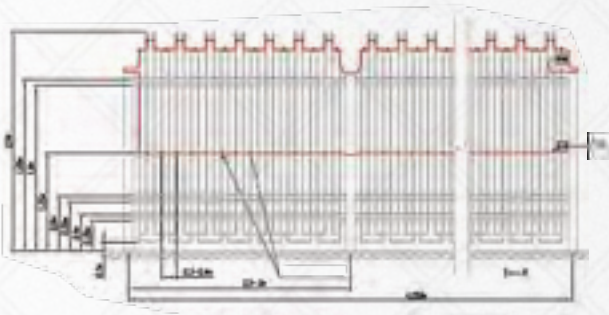
The maximum length of the sensitive element (<i>Forteza sensitive cable</i>) in a single zone	up to 300 m
Entrance areas	4 independent zones
Relay outputs	4 independent outputs
Power source	9-36 V (DC)
Current consumption	< 100 mA
Operating temperature	from -40 °C to +50 °C
Alarm, tamper output	dry relay contact
Terminal impedance of the sensitive cable	1 MΩ
Mounting on the fence	plastic fixing brackets; Outdoors wire can be used
Compatibility	any alarm control panel
IP class	IP55
Setup equipment	computer
Integral remote control of the detector. Suitable for any monitoring and control system.	
Deformation detection cable length: 300 m per detection (a total of 4 detections).	

PRINCIPLE OF OPERATION:

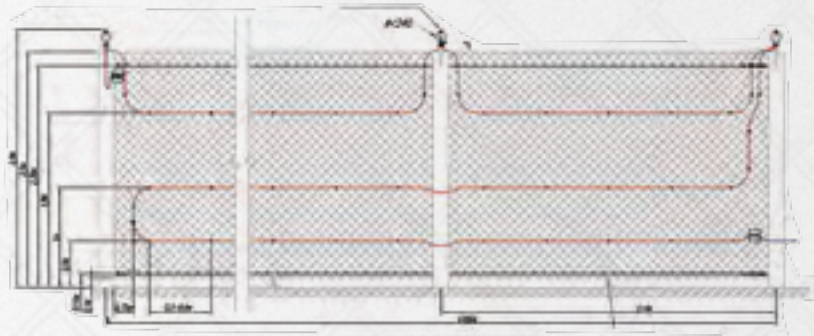


1. Sensitive cable is installed on the fence and connected to the processing unit;
2. Intruder tries to climb over the fence and deforms it in several places;
3. Deformation is transferred to a sensitive cable fixing points;
4. Sensitive cable receives deformation from the fence;
5. Processing unit detects deformation of cable;
6. Alarm signal is generated by opening relay contacts.

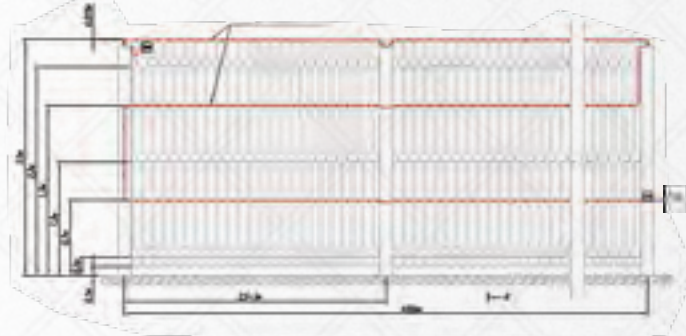
INSTALLATION RECOMMENDATIONS FOR VARIOUS TYPES OF FENCE.



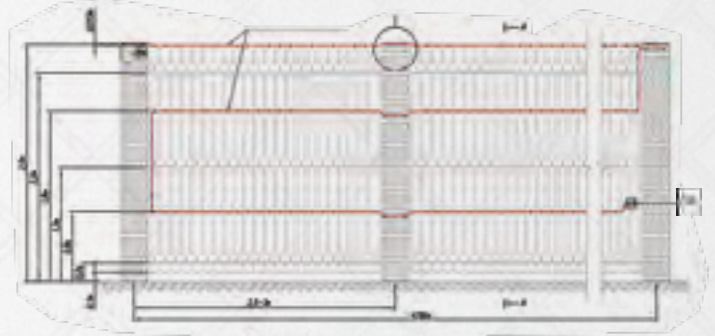
Installation on welded thick stripes fence.



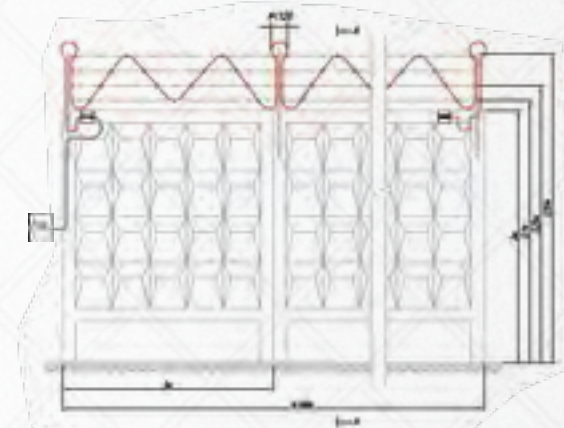
Installation on mesh fence.



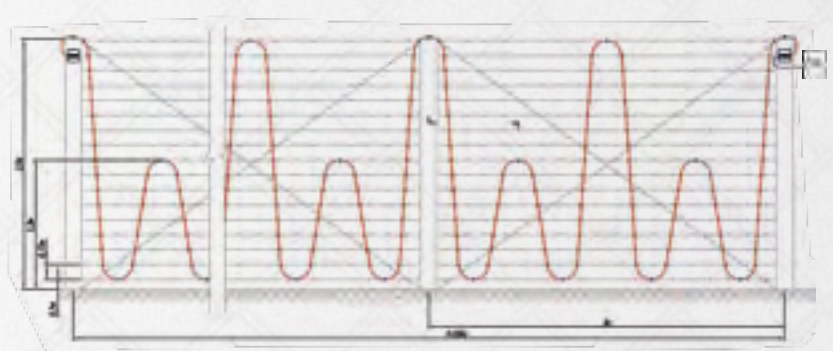
Installation on wooden fence.



Installation on wooden fence with brick pillars.









Installation on concrete wall.



Installation on fence made from steel ropes.

Marking:

-  Connection sleeve
-  End sleeve
-  Sensitive element
-  Non sensitive cable
-  Processing unit
-  Fixing points

Intended for the protection of any types of fences from an intrusion by means of climbing over or destroying them

