

# ELECTRONIC CUSTOMS SECURING CORD

## Purpose

ELECTRONIC CUSTOMS SECURING CORD is a device that secures cargo during transport and, having been threaded through openings in locks, bolts, etc., prevents unauthorized access. Any attempt to detach, reattach, or disrupt the cord's continuity (by cutting it) is detected by the device's electronic circuit and immediately reported to the external decision making system. The system verifies and further processes the event. It may, for example, trigger a local sound alarm, turn on the lights of the protected vehicle, send a notification signal via a wireless GSM device or radio at frequency of 433 MHz (868 MHz, 2,45GHz). The device is designed to work outside the vehicle.

## Structure and operation

ELECTRONIC CUSTOMS SECURING CORD is equipped with a microchip electronic circuit located in closed and sealed housing, additionally secured with hermetic filling compound. In normal operation status of the securing cord loop the device output has high status, in sabotage status the output changes its status to low. Thanks to neodymium magnets the device can be mounted virtually anywhere on a flat metal surface of a vehicle or container.

## Installation and usage

Thread the customs securing cord through the lacing holes of a tilt, lock bolts, or vehicle tie-down straps so that it becomes necessary to disconnect it from the device in order to open the cargo space. Next, put the cord ends into the device's sockets, lock it with a screw and seal it by tightening cable glands. Then turn on the device, after about 10 seconds the device will be automatically calibrated to the parameters of a given customs securing cord.

## Technical specification

<b>Power</b>	8... <u>24</u> ...36VDC (not separated)
<b>Power consumption</b>	≤ 0,5 W
<b>Binary output load resistance</b>	≥ 10 kΩ
<b>Two-status output signal</b>	Low status – „0” logic: max 10mV DC High status – „1” logic: min $U_{pow} - 0,5V$ DC Built-in anti-short circuit security device
<b>Protection class</b>	IP 67
<b>Working temperature</b>	-40°C to +80°C

