

STATIONARY ARCHWAY METAL DETECTOR

RUBIKON



APPLICATION

Rubikon is designed to screen people going through the control gate for the detection of concealed weapons and is used for security screening in locations of mass gathering (airports, railway stations, stadiums).

SPECIFIC FEATURES

- High radio-interference immunity
- High mechanical impacts immunity
- 15 detection areas (5 vertical and 3 horizontal)
- 50 levels of sensitivity adjustment
- Protection from illegal access to control panel
- Remote control
- Selection of ferrous and non-ferrous metals (optional).

MAIN TECHNICAL CHARACTERISTICS

Transit speed	0.2 to 5 m/sec
Traffic capacity.....	50 person/min
Alarm indicators	visible and audible
Power supply	100 ÷ 240V, 50/60Hz
Power consumption	less than 15W
Dimensions	2300x960x600 mm

OPERATING CONDITIONS

1. *Temperature
2. Relative humidity

* The device version with operating temperature above -10°C is possible.

MAIN DESCRIPTION

Operation of the Stationary archway multizone metal detector is based on disturbance of low-frequency three-dimensional electromagnetic field resulted from appearance of metal object in that field. Electromagnetic field is generated by two excitation coils located in the side walls of the detector. The changes in the field strength are detected by six sensor coils (three in each side) located in the side walls as well. Special digital signal processing algorithm allows selection of up to five zones of detection in the vertical direction and up to three zones in the horizontal one (Figure 1). Special shapes of the sensor coils ensure high radio-interference immunity of the metal detector.

To eliminate false alarms caused by mechanical impacts, the detector is equipped with infrared sensors that allow analyzing the signals only while passing the area of detection by a person.

Parameters of operation mode may be adjusted either by the built-in control panel or by remote control device.

For protecting the operating parameters settings of the detector the security lock is implemented.

Metal objects location in the area of detection is indicated by the LEDs sited along exit sides of the arch. Specific location of the metal object is indicated by the light up of the LEDs of corresponding vertical and horizontal zones.

In case of location of metal object around the central zone of the arch the LEDs light up on the both exit sides. The metal detector supports a wide range of sensitivity adjustment.

ADDITIONAL CHARACTERISTICS

The following additional features may be implemented optionally:

- Separate adjustment of sensitivity for each and any zones.
- Variation of operating frequencies in order to avoid interference while simultaneous operation of several metal detectors at a close distance.
- Selective detection of ferromagnetic or nonmagnetic materials.



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