

## Automatic Traffic Control Barriers



**EASYSpec** - The Automation Specification Service for Professionals

## SIRIS Automatic Traffic Control Barriers



### OVERVIEW

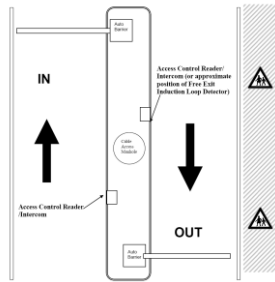
Traffic control barriers are available in various options with mechanical and hydraulic operation. These premier barriers are operated electro mechanically and are commonly used in busy car parks and high volume sites. Some mechanical barriers have a duty rating of 100%, meaning they can operate continuously. Hydraulically operated barriers are also commonplace, but are normally within less demanding sites as they can be rated as low as 20% duty cycles. Barriers are rated according to their speed, duty cycle, (number of operations per hour) and beam length. Beams can be rigid or articulated (for areas of reduced headroom) and can vary in length up to around 6M. Specialist barriers with beam lengths up to 10M are available at increased costs. Safety is normally assured by induction loop detectors, which can also be used to command barriers. Pedestrians and barriers do not mix, and it is advisable to have a separate, well marked pedestrian route in the area. Barriers can be configured for right or left hand use. This is designed to allow minimum damage to a barrier if the beam is damaged. Beams fork supports are available, but are not normally required on smaller barriers.



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## EXAMPLE



This specification example allows for two barriers for an entry/exit arrangement, divided by a single traffic island. The barriers are standard speed and have 4M beams. Safety is provided by induction loop detectors. Control is by the use of an intercom on entry and exit. Both intercom stations terminate and are cabled to a single internal handset.

## SPECIFICATION

The Traffic Control Barrier shall be the SIRIS barrier and shall be supplied and installed by Electro Automation (NI) Ltd. All operating and safety accessories shall be supplied by Electro Automation as part of this contract.

## GENERAL

The SIRIS barrier shall be electro mechanical and be suitable for continuous (100%) duty cycles. The barriers shall incorporate multi-logic control panels offering numerous forms of control. Changes in logic will be available without additional costs. Housings shall be Zintec coated and then polyester powder coated. A manual release device will be incorporated within each barrier. Barriers must have a high intensity LED screen which can be programmed to display messages. Each screen must have a real time clock and be capable of displaying the current date and time. The barriers shall be CE marked and comply with all relevant EN safety standards. The model reference is SIRIS.

## FUNCTIONS

With a customised key, the manual release clutch allows the barrier beam to be raised and lowered with ease and the control system is able to be reset. Mechanical and electronic controls and the use of a compression spring means the barrier beam can raise and lower with a smooth action without undue strain on the mechanical components. Three electrical input signals control the barrier beam movement – Up, Down and Stop. Safety can be provided by either photocells or vehicle detection loops. If the photobeam is interrupted or a vehicle is detected on the loop whilst the beam is lowering, a signal is sent to the control board to stop and raise the beam – normal operation is resumed once the obstacle is clear. The face of the barrier housing incorporates a scrolling LED display indicating current time and date with a customisable message. This will display the date and time, then scroll to a customisable message such as "Welcome to A N Other". The barriers will also have an in-built LED traffic light. This will automatically show RED when the barrier is closed. In opening mode the LED traffic light will show GREEN and the message screen will display PASS. In addition there are outputs (mains voltage) provided to directly connect external Red and Green external Traffic lights if required.

## WORKING ENVIRONMENT

The barriers shall be designed for a working temperature: -25°C to +85°C  
Mains power input: 220vAC ± 10% 50/60Hz at 120W. Relative humidity: equal or less than 95%

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## SYSTEM CONTENT

2 No. SIRIS Electro Mechanical Barriers  
2 No. 4 Metre Rigid Beams  
2 No. Safety/Closing Induction Loop Detectors  
1 No. Intercom System comprising 2 gate stations and 1 internal handset  
2 No. Intercom Posts  
All civil works and cabling by others

All materials and specialist advice can be obtained from:

### **Electro Automation (NI) Ltd**

21 Crescent Business Park  
Lisburn BT28 2GN

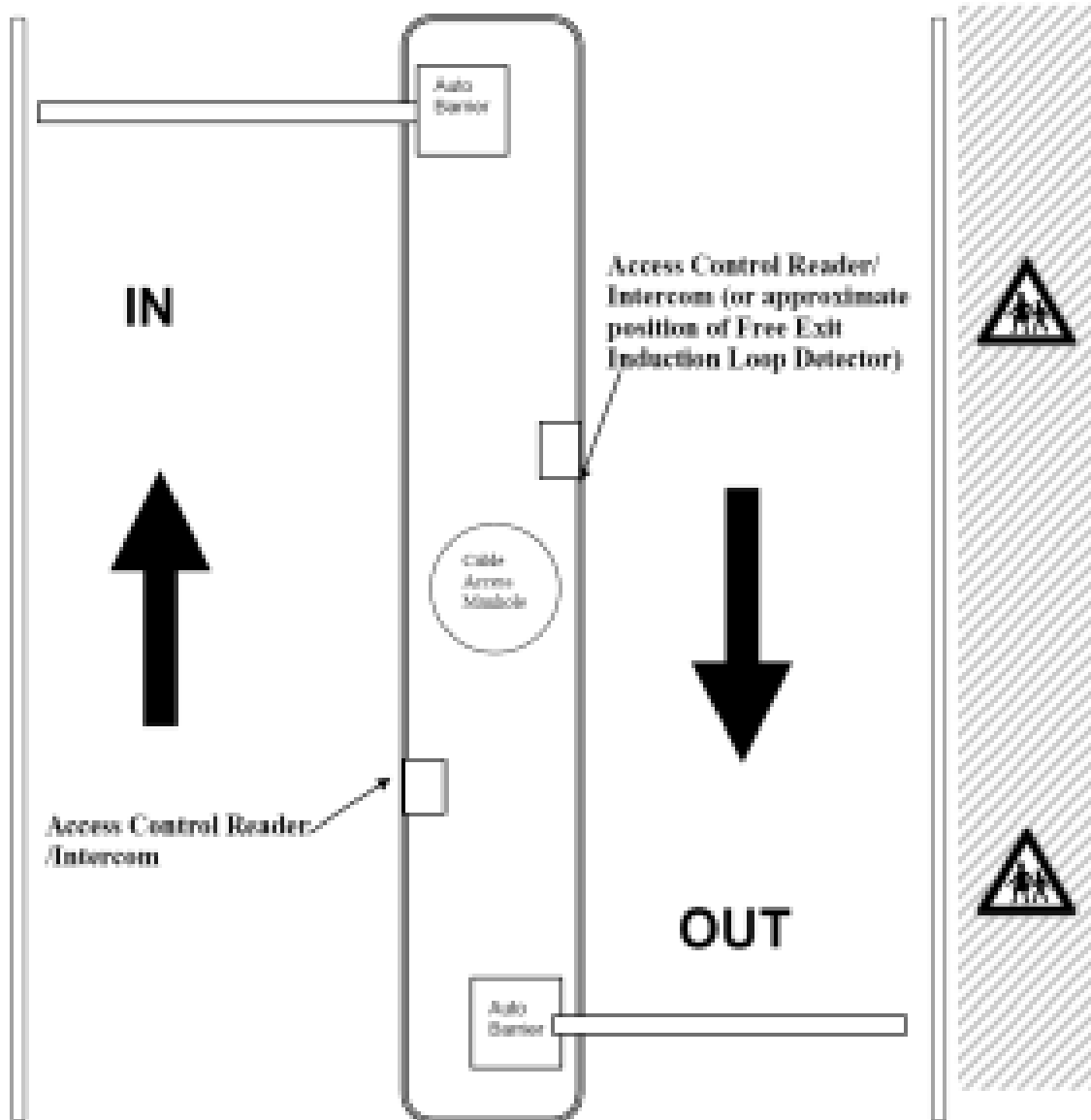
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Typical Layout - Not to Scale

