



Automatic Bollard



Outline Specification: EDSUKB101

Raise Height	700mm.
Bollard Diameter Width	275mm.
Construction	Galvanised, Steel or Stainless Steel.
Finish	Powdercoating - Shotblasted to clean metal, hot-dipped galvanised or coated with zinc, with a special 3-part coating system with polyurethane top coat. Stainless Steel – Natural finish Stainless Steel
Safety	Supplied with failsafe protection around the installed bollards. Additional safety such as photocells, interactive IR detectors or magnetic loops can be provided.
Drive Unit	Underground hydraulic.
Operating Speeds	Rising & Lowering Speeds 6 Seconds.
Controls	Microprocessor controlled drive unit which can interface to any standard control system, i.e. card reader etc.
Power	Single Phase 230vac (UK) Supply both 50/60 Hz
Operating temperature	-20 to + 80 degrees Centigrade

EDSUKB101 is a hydraulically operated bollard designed to protect premises and for use in traffic control in both private and public areas. It consists of a flanged cylinder providing a casing to the rising bollard, an electronic control box and a motor pump unit. The housing cylinder, to be inserted into a foundation tube cemented into the ground and is firmly secured to the foundation with anchor flanges. Suitable openings in the lower and middle sections of the bollard are provided both to drain possible water residues that may gather inside and for cables access into the bollard for the electrical connections. Inside the location cylinder is the rising bollard which can be activated by a range of control devices, such as radio transmitters or keyswitch through the main control box, to the raised or fully lowered positions. The combination of the colours and finishes provides an aesthetically pleasing bollard. Three lights are fitted as warning signals while the bollard is operated.

The bollard travels smoothly in the raise or lower positions. In event of power failure a manual override is provided from the top of the bollard by means a specially designed Tool (supplied) to lower the bollard. EDSUKB101 is designed to be a fully automatic bollard conforming to the existing safety regulations, installed and tested by EDSUK, a guarantee of long lasting higher reliability.

Technical Specification & Notes:

ELECTRIC MOTOR

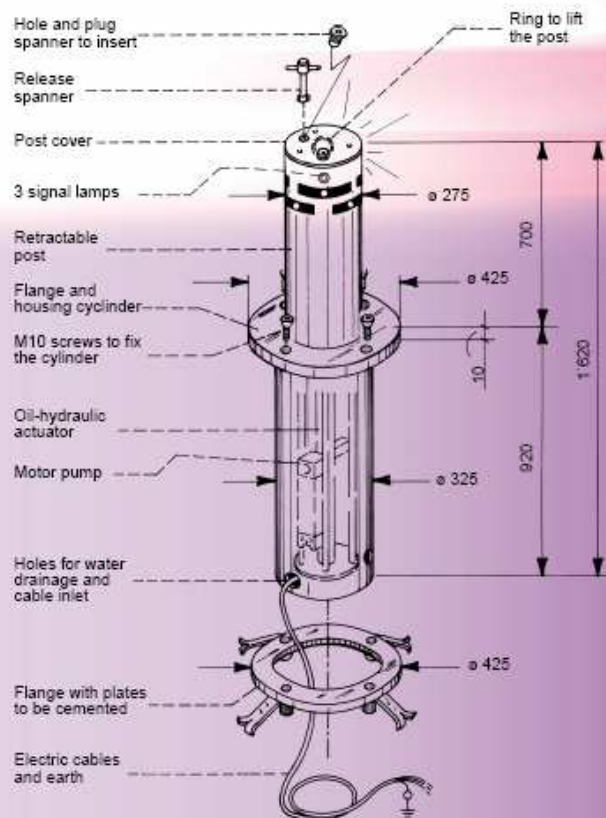
Power output	0.25 KW (0.33 HP)
Supply voltage / Frequency	230 V - 50 Hz
Absorbed current	1.8 A
Absorbed power	330 W
Capacitor	12.5 μ F
Motor rotation speed	2'800 r.p.m.
Intermittent service	S 3

OIL-HYDRAULIC ACTUATOR

Travel time6 s
Stroke	740 mm
Shaft diameter	16 mm
Piston diameter	30 mm
Thrust power raise	276 Kg
Thrust power lower	147 Kg
Assembly weight Strabuc 918	128 Kg
Full protection standards	IP 557
Lamp power supply	230 V - 25 W

HYDRAULIC MOTOR PUMP

Hydraulic pump	P 10
Pump flow rate	2.75 l/min.
Mean working pressure	2 MPa (20 bars)
Max. pressure	4 MPa (40 bars)
Working temperature	-20°C +80°C
Oil type	A 15 FADINI by AGIP
Static weight	10 Kg
Protection standards	IP 54
Duty cycle	6 sec. Rising - 30 sec. Stop - 6 sec. Lowering
Time of one complete cycle	42 s
No. of complete cycles Rising-Stop-Lowering	95/h
No. of cycles a year, 8 hours a day	250'000





Optional Features

Switch & Timer Operation

Push button, Desktop Switch, Keyswitch, & 24hr timer for automatic mode operation.



ANPR – Automatic Numberplate Recognition & AVR Automatic Vehicle Recognition

Allows automatic operation by checking the registration plate against a known safe list, or a unique tag mounted in/on the vehicle, if verified then access is granted.

Intercom Control

Audio, Video & Audio, GSM Intercom operated over a mobile phone SIM card.



Safety/ Opening Loop

Underground loops can be installed for vehicle presence detection, safety, opening/rise, close/lower, switching, alarms, counting of vehicles entering and leaving the site.

Access Control Integration

Keypads, Magnetic Swipe Card, Barcodes, Proximity Card, Photo ID, RFID & Radio Remote Control Technology, Biometric Controls, can all operate the system.



UPS – Battery Backup Facility

Battery back-up facility to operate the system in the event of a power fail and provides a level of mains power filtering.



Traffic Light Control

LED traffic lights and information signs, full & spaces, stop & go and bespoke directional signs etc.



Photocell Safety/ Opening Sensors

Photocell detectors providing opening/rise, close/lower, Switching & alarms etc.



Token Operation

Simple token operation with slotted token, can be customised with your organisations logo or name.

