

Vehicle access control equipment

Product information

Typical applications:

*Vehicle entry blocking
Access security
Car parking control
Vandal protection and
Pedestrianisation schemes*

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A member of the



British Parking Association



Description:

The Cedamatic CS500 and CS650 are traffic control barriers of the rising arm type. Employing low voltage, high torque motors, they are suitable for intensive use and are designed to meet the most demanding requirements. A high level of reliability has been established in use controlling the flow of traffic for car parks, factory entrances and toll collection systems. The two models in the range are similar in design, the main difference being the speed of operation and the length of barrier arm that can be accommodated. The barrier arm on both models can be installed for either left or right hand operation.



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Technical information

Applications:

The CS500 model is used for barrier arms of between 2 and 4 metres long, and adjustable opening speed from 2 seconds. The CS650 can operate barriers of up to 6.5 metres in length, but with a slightly longer opening time. All the operating components of the system are housed in a weatherproof vertical cabinet which also acts as a support for the barrier arm. A range of peripheral equipment is available:

- * Tip support posts, fixed or arm mounted.
- * Battery back-up for limited operation during a power failure.
- * Articulated barrier arms.
- * Flashing light beacons.
- * Barrier arm skirt.
- * Magnetic card, radio control, token or push button console operation.
- * Induction detector for raise or lower on entry or exit.

Operation and Maintenance:

The motor and gearbox are an integral assembly and operate the barrier boom and its shaft through an adjustable link arm which is spring compensated to reduce the load on the mechanism. At the extreme range of movement, when an adjustable stop is reached, an electrical clutch, which is load sensitive, cuts the power. Adjustable limit switches determine the point in movement where the motor is slowed at each end of its travel. This arrangement gives a controlled movement to the barrier boom and protects the mechanism as it is brought to rest.

The operating speed of the barrier can be varied between set limits by altering the settings on the gearbox logic card. The speed is optimised at the time of installation. The motor and gearbox are factory lubricated, and need no maintenance during their life. The shaft of the barrier arm is held in grease sealed bearings.

A range of gauged tension springs is available to allow for the differing weights and lengths of barrier arms with applicable accessories fitted. The spring mounting is finely adjustable so that a smooth counter balancing effect is achieved. The rear panel of the cabinet can be unlocked and removed to allow access to the mechanism for maintenance and adjustment and also to gain access to the manual release lever in the event of power failure.

Safety:

Agies barrier booms are manufactured in lightweight extruded aluminium section and the inbuilt electrical clutch which is load sensitive, will arrest movement of the boom should it contact an obstacle. Connections are available on the microprocessor controls to support installation of infra-red safety edge, induction detector or pneumatic cushion safety systems.

Installation:

The cabinet which contains the operating mechanism is bolted to a foundation plate or alternatively, directly onto a prepared concrete base. The boom length may be tailored to requirements and is stabilised by a spring balance system so that the overhanging length moves smoothly throughout its arc of travel. The entry point for power supply and control cables is at the bottom of the cabinet through a hole cut centrally in the base plate. All cables should be routed through a 50mm duct buried in the concrete base.

AGIES (S500 & CS650)			
		CS500	CS600
Type of operation		Rising Arm	Rising Arm
Operation frequency		Continuous	Continuous
Road width covered	(Metres)	2.0 - 5.0	4.5 - 6.5
Operating speed	(Secs)	2 - 7 adjustable	4 - 9 adjustable
Motor power supply	(Volts)	24	24
Motor rating	(Watts)	190	190
Gearbox power supply	(Volts)	230 +/-15%	230 +/-15%
Gearbox reduction ratio		200:1	200:1
Torque at output shaft	(Nm)	280	350
Motor requirements	(Amps)	12	12
Insulation class		y	y
Temperature working range	(°C)	-20/ +70	-20/ +70
Weight	(Kg)	61	105
Dimensions	(mm)	310x230x1070h	450x250x1070h
Lubrication		Grease	Grease
Barrier arm		Anodised Aluminium	Anodised Aluminium
Mounting Cabinet		10 S.W.G mild steel powder coat painted (Stainless steel option)	10 S.W.G mild steel powder coat painted (Stainless steel option)
Backup battery supply		2 12V 6.5Ah lead acid batteries. Recharging is continuous & automatic	2 12V 6.5Ah lead acid batteries. Recharging is continuous & automatic