

CEDAMATIC SLIDING GATE ACTUATORS

Type: GLISS (BS6VK, BS15K, BS15M, BS15T & BS20N)

Description:

A properly designed sliding or cantilever gate is one of the most secure methods of access control. Conventional sliding gates require a track fixed in the ground along which the gate rolls, the top being stabilised by upper guides. Cantilever gates do not require a track at ground level. In either case the drive is commonly transmitted by rack and pinion.

Selection of a suitable motor will depend upon the anticipated intensity of use and the weight of the gate which will vary according to the size of the opening and the structure of the gate.

Applications:

Ceda sliding gate actuators come in a series of 5 sizes to suit a range of gate weights from 600kg to 2000kg. Hence, requirements can be accommodated from a typical domestic driveway entrance up to heavy industrial gates for commercial premises. Due to the type of operating mechanism the gates can be arranged to open in either direction.

All the operating components are designed for external location and for minimum of maintenance. To complete installation a drive rack is bolted or welded for the length of the gate and a range of running gear, including a hardware pack consisting of rollers, guides and stops is available to mobilise the gate. In practice there are few constraints upon the style and design of the gate which can conform to the client's choice.

The electrical control gear is housed in a separate weatherproof cabinet which can be mounted adjacent to the actuator, except for the domestic unit (BS6VK) which is self contained.

The drive mechanism is not reversible (except when released by key for manual operation) and therefore the gates are locked in both the open and closed positions.



Operation and Maintenance:

The drive unit motor is contained in a weatherproof steel housing with an aluminium casting for the gearbox. Commercial models are fitted with fan cooled motors so that they can operate continuously. The (BS6VK) is designed for domestic use and is not continuously rated.

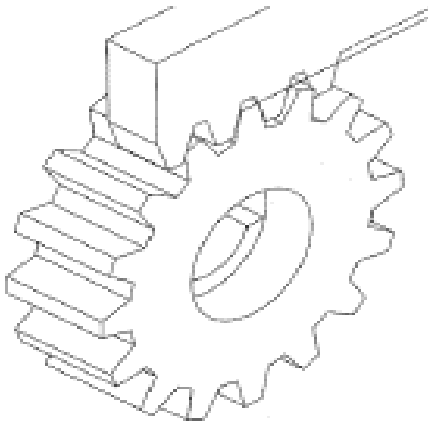
The motor transmits motion through a worm reduction gear and electric clutch to a pinion which engages with a drive rack located on the gate.

At either end of the rack adjustable cams are mounted, which, as they move passed the drive unit, operate a micro switch to shut off the power and prevent further movement of the gate. A key operated manual override is provided to enable the release of the drive clutch and allow the gate to to be opened manually in the event of a power failure.

The motor bearings are lubricated with grease and the gearbox with oil, except for the BS145K model whose gearbox is also grease lubricated. The units are designed for minimum of maintenance, the only regular work being to ensure that the rack, pinion and guides are kept free of debris and adjusted for optimum clearances.

Motorised gates can be opened by push button, radio control signal, card reader, automatic vehicle detector and other devices and operation can be customised to suit individual requirements.

Specification	BS6VK	BS15K	BS15M	BS15T	BS20N
Power supply:					
Volts	220	220	220	380	380
Amps	1.6	2.5	2.5	1.4	2.5
Hz	50	50	50	50	50
Motor:					
Power (Watts)	370	550	550	550	955
Condenser (µF)	16	25	25	-	-
Insulation class	F	F	F	F	F
Thermal protection cut off (°C)	130	130	130	-	-
Gearbox:					
Torque (Nm)	19.33	22.12	55	55	80
Thrust (N)	1835	2765	3313	3317	4513
Reduction ratio	100:3	100:3	100:3	100:3	100:3
Lubrication	Grease	Oil	Grease	Grease	Grease
General:					
Working temperature range (°C)	-20/+70	-20/+70	-20/+70	-20/+70	-20/+70
Max. load of gate (Kg)	600	1000	13000	15000	2000
Opening speed (M/min)	9.5	10	10	10	10
Weight (Kg)	13	22	26	26	28
Max height of rack fixing (mm)	90	130	130	130	130
Dimensions (mm)	210x230x280h	240x315x340h	190x315x340h	90x315x340h	190x315x340h



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