Cover
Led lamp
350
350
6
Articulated arm

Release handle
Coded keys

840
600
Straight arm with guiding section

Control board Elpro 35S (Bart 350 Slave)

Control board Elpro 35M

Motor assembly

Fixing bracket

Opening gate stop

Limit switch cams

Limit switch

189 mm
235
356
6
90
177   85
200

BART 350 is an electromechanical gate system fitted with an arm, either cranked or straight (both made of zinc-coated steel) for residential swinging gates, semi-intensive use, designed for gate post mounting.

Bart 350 consists of two main parts: a bracket (zinc-coated steel) to be mounted to a gate post and the motor assembly. Once the mounting bracket is fixed, the unit has to be fitted with the gate stop (unless a gate stop is mounted to the ground). As next step, the electric cables are to be led to the electronic control board; this one is mounted on top of the second component part (the motor assembly). Four bolts fasten the motor base plate to the mounting bracket.

The installation of the opening gate stop under the mounting bracket turns Bart 350 into either a right- or left-hand unit (view from inside the gate perimeter). The gate stop consists of a M10 galvanized, adjustable screw, locked by a nut in stop arm position.

The movement is stopped when the control board detects that the gate has reached the gate stop. As an alternative, the gate can be stopped by the limit switches operated by means of two adjustable cams fitted on to the rotation shaft, under the mounting bracket (this solution is to be adopted in case of light gates and the sliding guide option is to be used).

The rotation of the shaft (zinc-coated steel) is by a motor and a mechanical worm-crown gear system (both made of steel), lubricated by high performance grease; all mounted on radial bearings protected inside two pressure cast aluminium bodies.

The cover is made of polycarbonate, fitted with a lock operated by a custom-coded key. The lock is positioned onto the release handle, designed to override the mechanism in case of power failure, when manual operations of the gate are needed (Bart 350 release system).

When the release handle is operated, an inner microswitch is disengaged and power supply to the control board disconnected: by giving a new command pulse, Bart 350 operates the gates slowly either towards the gate stop or the limit switch as initially programmed. To prevent misuse or unauthorized actions, the cover can be removed only by the custom-coded key.

The key allows both operations: overriding and cover removal, as required.

Where limited space conditions are to cope with, an option is available ie. a straight arm and a sliding guide: in this case it is mandatory that opening and closing gate stops be installed on the ground and limit switch microswitches enabled.

Two Bart 350s (Master e Slave) are required with double swinging gates: only one is to incorporate the control board (Elpro 35M on Bart 350 Master), for the accessories to be terminated to, and programming carried out; a connection card, ie. Elpro 35S (Bart 350 Slave) is to be fitted on to the other unit. Two electric cables (4x0,5 mm² + 3x1,5 mm²) are to connect the two gate operators.

Bart 350 is fitted with an amperometric sensor to stop the system on touching the gate stop and reverse gate travel on hitting an obstacle.

The cover is fitted with a blue led lamp to indicate the status of the installation (Blue led = voltage supplied and operative conditions, amber in colour and flashing = problems occurring, maintenace required). Programming, simple and intuitive, is by a dedicated button. Auto-programming of the entire opening and closing cycles is possible, also for the slowdown positions; manual programming is recommended for the gate delay setting. Management of the functions is by Dip-switches with Elpro 35M Master, LED diagnostics incorporated in it.

TECHNICAL DATA

Supply voltage	230 Vac - 50 Hz
Motor voltage	24 Vdc
Max. absorbed power	150 W
Max. absorbed current	5 A
Max. torque	180 Nm
Opening-closing time (95°)	16 s
Opening-closing time (95°)	15 s (with sliding guide)
Protection Standard	IP 53
Lubrication	grease
Working temperature	-20 °C +50 °C
Weight of Bart 350 Master	10 kg
Weight of Bart 350 Slave	6,5 kg

APPLICATION LIMITS

Max gate weight	300 kg
Max gate width	2,3 m

PERFORMANCE

Frequency of use	semi-intensive 30 cycles/hour

Bart 350