

# PF9000A Specification Sheet



*Installation/building requirements  
The PF9000 heavy-duty*

*automatic sliding gate is fully assembled and tested within the production factory, thus minimising the disruption on site. The gate will be delivered ready to be lowered on to the pre-installed concrete plinths.*



*Dual-height photo cells are fitted as standard, for*

*safety to pedestrians and vehicles, on all our PF9000 Heavy-Duty Automatic Sliding Gates. A Programmable Logic Controller, operated via an inverter, allows the user to adjust many settings to their individual requirements.*

## The PF9000A Automatic Sliding Gate

The PF9000 Automatic Cantilever Gate unique to our brand the PF9000 is a pioneering concept using a simple yet reliable design it uses an external friction drive mechanism.

Where the use of conventional swinging gates are not feasible due to space restrictions, the PF9000 Automatic Cantilevered Sliding Gate is an easy to install and ideal solution.

We offer a bespoke service from design to manufacture where we can supply a custom built gate to match existing fencing / surroundings ensuring that the finished product is exactly what is required.

The standard round tube infill can be replaced by a variety of infill options including D or W profile palisade pales, timber panels, solid sheeting and various mesh panels to integrate perfectly with all fence types.

A Manual Release Mechanism, concealed within the lockable housing unit, is included as standard, allowing manual control of the gate in the event of a power failure.

To aid in the safety aspect of the Automatic Cantilevered Sliding Gate the portal is fitted with dual-height photo cells and rubber profile safety edges.

The gate is operated by a Programmable Logic Controller, operated via an inverter, which allows for programming of various parameters like gate speed, passage timeout, automatic opening times, free exit loop operating times etc.

Proximity sensors mounted in the main portal read the moving beam so as to indicate the start and end of the travel cycle.

Towards the back of the gate's opening area a floor mounted support roller handles the weight of the gate in the fully open position.

Anti-climb spikes are fitted as standard to gates over 1500mm high.

EVERY EFFORT HAS BEEN MADE IN PREPARATION OF THIS SHEET HOWEVER WE HOLD NO RESPONSIBILITY FOR ERRORS OR OMISSIONS.

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## Electric Motor:

400v 50hz 3 phase (Braked Motor)  
4 pole  
IP54  
B14 C face mounted  
Frame size 80  
Output power: 0.75kW  
Current @ 400v: 2.2A  
Rated speed: 1400rpm  
Full-load power factor(cos): 0.67  
Ts/Tn: 2.5  
Is/in: 4.3  
DC Brake In (mA): 150  
Zo (starts/hour): 15000  
Moment of inertia (Jx 10-4 Kgm2):  
17.19  
Max brake torque (Nm): 18  
Net weight 15kg

## Geared Motor Spec:

Type: Worm & Wheel  
Overall speed: 200 rpm  
Max rated torque: 320nm  
Actual torque: 32nm  
Gearbox efficiency: 90%  
Output size: 30mm  
Mounting position: V5  
Angular Backlash: 20' +/- 5' /  
0.00582 +/- 0.00145  
Lubricated with: Shell Tivela S320  
0.48 litres



*Don't forget to ask about all the different access control kit that we can supply.*

*In the majority of scenarios we will pre fit this equipment with your order cutting down the labour time on site. We offer endless combinations of access control.*



*Remember that we offer a gate that suits all*

*applications. Our range currently consists of PF9000 Automatic Cantilever Gates, PF9000 Manual Cantilever Gates, PF9200 Manual or Automated Swinging Gates and our PF9500 Automatic Bi-Folding Speed Gates. All have different advantages and niche applications so for the best advice give us a call on:*



## Specification:

CE Approved BS/EN 12453

## Dimensions:

250mm x 225mm extruded Aluminium beam

Infill – 30mm diameter x 6mm Wall thickness

## Power Requirement:

230v, Single Phase, 50Hz, 10 Amps

## Drive Motor:

0.75KW's - 1.1KW's, 3 Phase

## Maximum Span:

10 Metres Drive-Through  
(14.5 Metres overall) Single Leaf

## Maximum Height

2.4 Metres (maximum width 10.0 metres)

3.0 Metres (maximum width 6.0 metres)

## Duty Cycle:

100%

## Operation Time:

4 Seconds per metre (Variable)

## Finish:

2 Pack Oven Baked Epoxy Coated – extensive range of colours and colour combinations available.

## Operation:

Friction-driven 3 phase motor via Inverter and

Programmable Logic Controller

## Access Controls:

Proximity Card Readers and

Controllers, Keypads,

Remote Control Transmitters, Push-Button control Raise/Stop/Lower, Intercom Systems, Video Systems, Token Acceptors, Counting Systems etc.

## BS/EN 12453 Compliant:

The PF9000 complies with safety features announced under the EU standards and regulations. Five profiled Safety Edges are provided; each consisting of 2 parallel electrically conducted rubber strips. These are connected to the main control panel by two cables, which are concealed within the lower beam, which transmit messages to and from the safety edges. In the unlikely event of a fault, messages will be transmitted to the necessary safety edges instructing the gate to be stopped, regardless of its current operation.

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