



TRANSMISSION
A U S T R A L I A

Geared to drive Australian industry



The GateKeeper
Gate Operating System

GateKeeper Operator

The GateKeeper is an industrially designed gate operating system unmatched in its capability and flexibility.

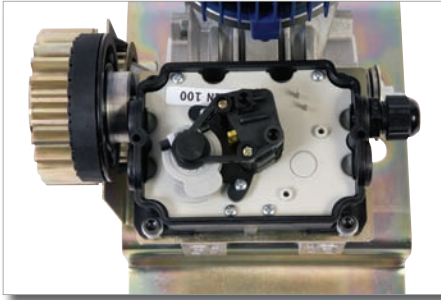


- A reliable design driven by a 3 phase motor coupled with a sealed-for-life worm drive gearbox,
- Designed for the busiest applications,
- Sturdily encased with an attractive powder coated steel cover,
- A zinc plated steel mounting base,
- A high degree of self-locking on the 49:1 unit minimises back-driving,
- The GateKeeper also offers unique and unmatched security locking via the German engineered **motor brake option**.

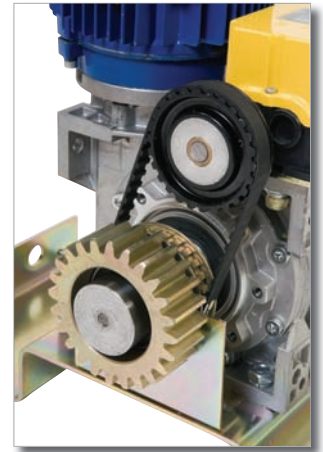
- Linear speeds ranging from 17 to 52 m/min are available through a combination of pinion sizes, gearbox ratios, and the flexibility of a motor inverter,
- Available in a 0.75kW (1hp) unit as standard. 1.1kW (1.5hp) option for those extra heavy duty applications, with pull ratings up to 205kg,
- 30 tooth pinion offers a gate travel distance of 18m. 24 tooth pinion offers a gate travel distance of 15m.

Set-and-forget

Open and close travel limits are very easy to set and are designed as **set-and-forget**, never needing adjustment. Setting is done via the 2 pole 50:1 ratio limit switch assembly (see left). The non-slip, non-stretch timing belt (right) eliminates problems associated with standard chain driven limit switch systems.



A 4 pole limit switch assembly is also available where you need a slower creep speed prior to stopping, or for other applications.

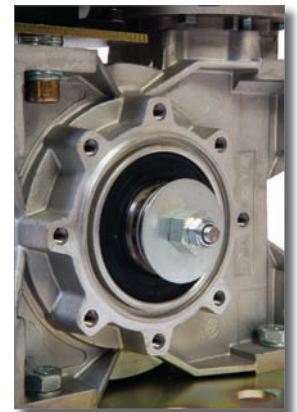


Securely enclosed

Foreign objects are prevented from interfering with the GateKeeper due to the minimum gap between cover and pinion.

Easy release

In case of power failure the GateKeeper has an easy release mechanism. This is accessed through a hole in the cover with a supplied 19mm tube spanner.

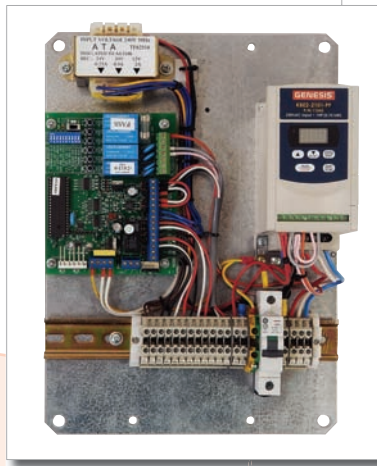


Selection

Maximum pull		Gate speed		Brake motor	Maximum gate travel [m]	Operating frequency [Hz]	Pinion	Ratio
0.75kW [kg]	1.1kW [kg]	[mm/sec]	[m/min]					
140	205	364	21	NO	18	50	30T	49:1
		510	30					
140	205	291	17	NO	15	50	24T	49:1
		407	24					
112	164	442	26	YES	18	50	30T	40:1
		618	37					
112	164	354	21	YES	15	50	24T	40:1
		496	29					
85	125	630	37	YES	18	50	30T	28:1
		882	52					
85	125	504	30	YES	15	50	24T	28:1
		706	42					

GateKeeper Control Box

The GateKeeper control box is a versatile controller designed for use with the GateKeeper sliding gate operator. It is also ideal for controlling other leading gate operator brands and rolling shutters.



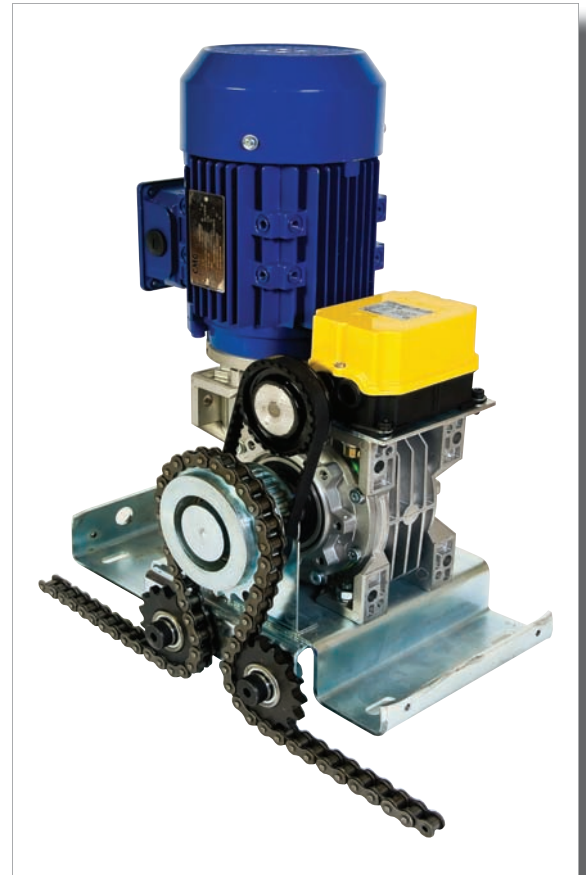
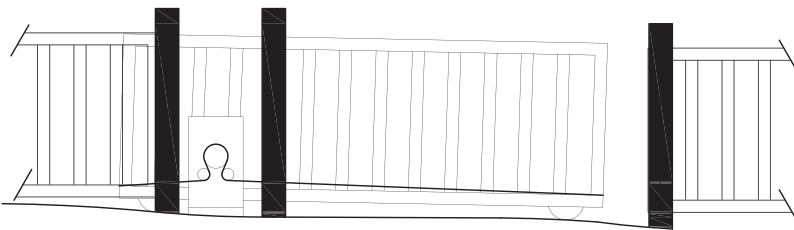
Features

- Suits 0.75kW or 1.5kW motor powers, depending on the choice of inverter,
- Logic is provided by the well proven CB6 control board,
- Designed to interface with most access control systems including remote controls, loop detectors, photo cells and key switches/pads,
- Fully adjustable and independent open and close speeds,
- Fully adjustable soft start (acceleration) and soft stop (deceleration),
- Fitted with a circuit breaker.
- IP65 enclosure protection for safe outdoor installation,
- Continuous 2 Amp 12V AC output for easy control system connection,
- All connections brought out to a terminal strip for easy installation,
- Switched 1 Amp 240V AC output for magnetic brake where fitted,
- 240V AC three phase output,
- 240V AC single phase input,
- DIN rail mounting for up to 3 loop detectors.

GateKeeper ChainDrive

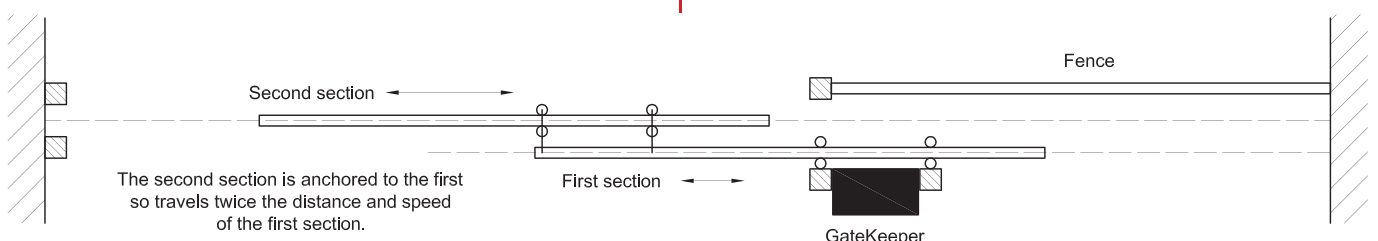
The GateKeeper ChainDrive version is the ideal solution for gate applications with site conditions that make a rack and pinion drive unsuitable.

In gate applications where the bottom track is uneven, the ground is not flat or the driveway is subject to movement, the GateKeeper ChainDrive system offers the answer. In many situations correction is not an option and problems can occur with the rack and pinion drives. To overcome this we have designed a ChainDrive system.



Features

- Based on the same reliable proven GateKeeper base unit,
- A chain is laid in a channel running the length of the gate, tensioned at either end,
- The system ensures that engagement is never lost because the chain runs over the main drive sprocket and under two idler sprockets keeping the drive constant.
- The flexibility of the ChainDrive makes the option for bi-sectional sliding gates more viable. Bi-sectional gates are perfect in locations where there is limited room for the gate to reside when in the open position.



GateKeeper Test Program

Security and convenience are two main reasons to install automated sliding gate systems, so reliability is a key issue. Our tests prove the GateKeeper is the most reliable system of its kind available.

Test Program

Transmission Australia conducted an exhaustive and demanding testing program on the GateKeeper over a 5 month period to confirm its reliability.

- The system was run continuously at the rate of 5 cycles per minute,
- The motor was operated without a cooling fan,
- The load was 300 kg,
- A 30 tooth pinion was used to increase the load on the system,
- The motor was run at an elevated frequency (70Hz).

Test Results

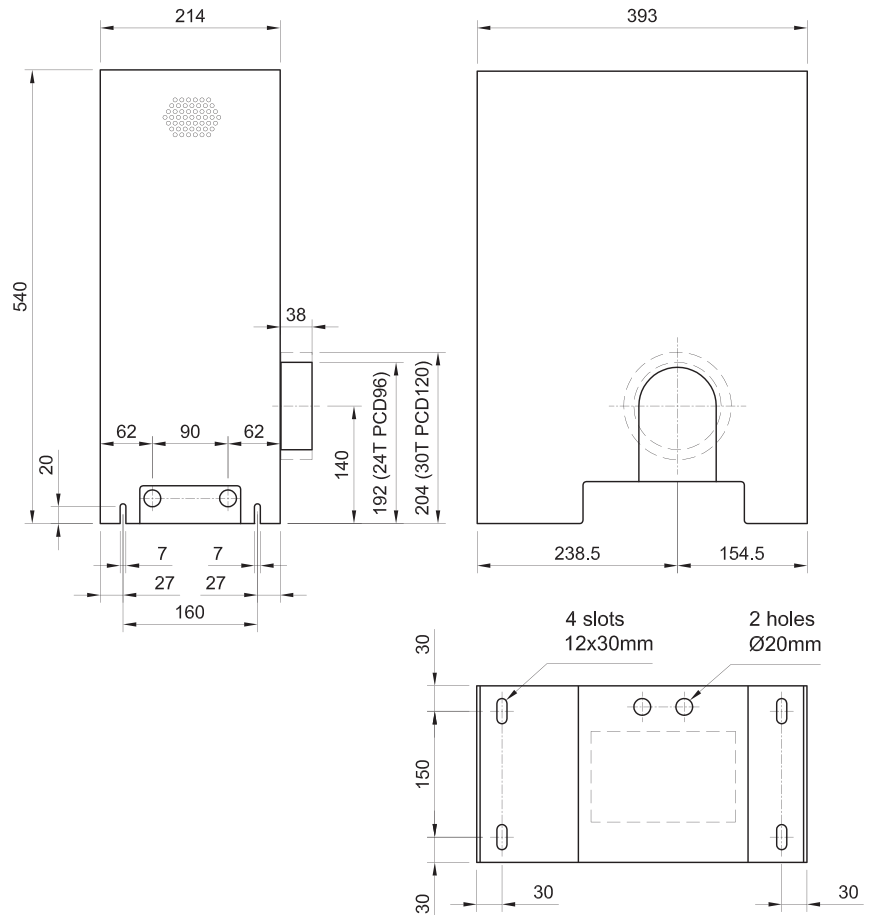
- 1,100,000 continuous cycles,
- 2,200,000 motor starts,
- 2,200,000 limit switch operations (1,100,000 each open & close),
- 2,200,000 inverter operations,
- 2,200,000 logic board operations.

The test rig travelled the equivalent of 2,860 kms without failure. Based on a 6 metre gate this represented 238,333 openings. Based on a 5 day working week with 100 operations a day this calculates to a working life in excess of 9 years.

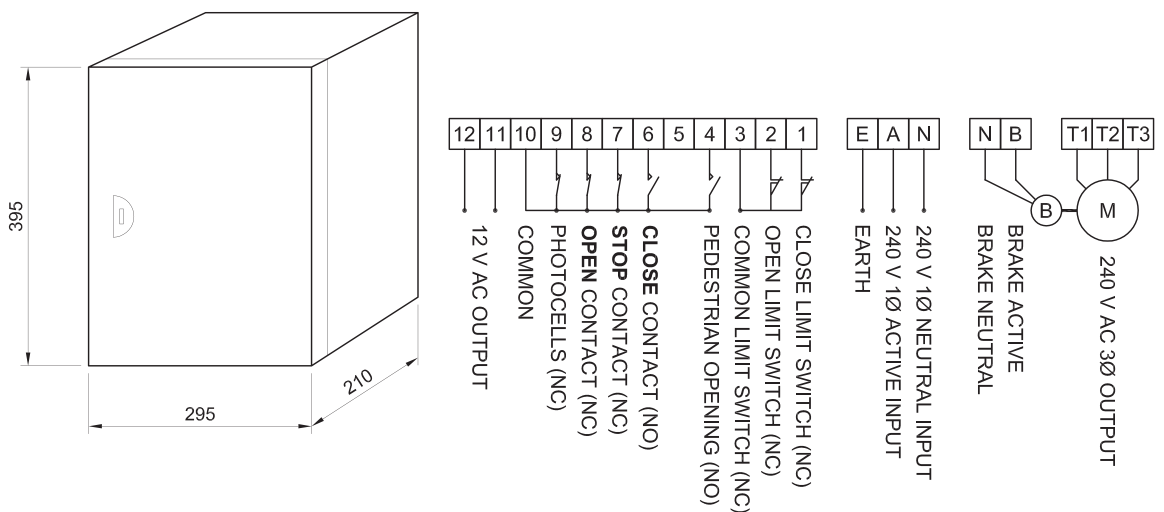
GateKeeper Installation

Mechanical and electrical installation, and electronic programming of the GateKeeper Operator and Control Box is easy.

Mechanical



Electrical





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LOCATION	TELEPHONE	FACSIMILE
VIC Rowville	03 9755 4444	03 9755 4411
NSW Kings Park	02 9672 8877	02 9676 3355
QLD Archerfield	07 3275 1717	07 3275 1818
SA Pooraka	08 8359 1321	08 8359 5675
TAS Devonport	03 6424 8574	03 6424 9393
WA Welshpool	08 9458 6088	08 9458 7088

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