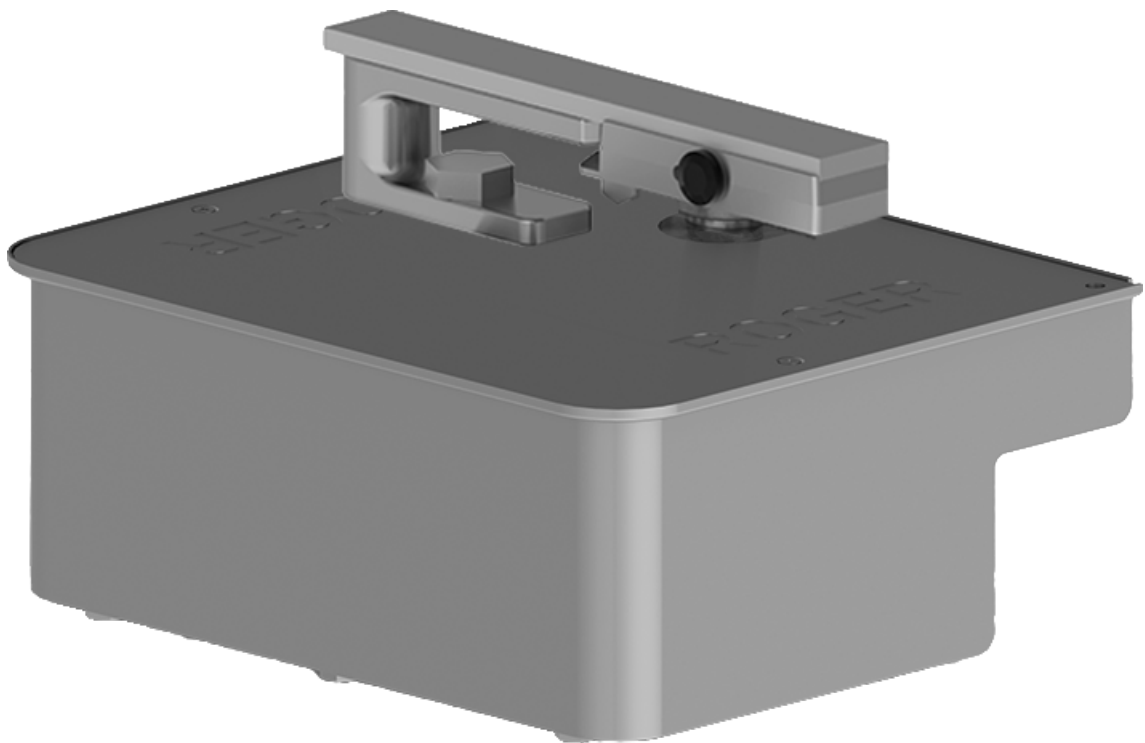


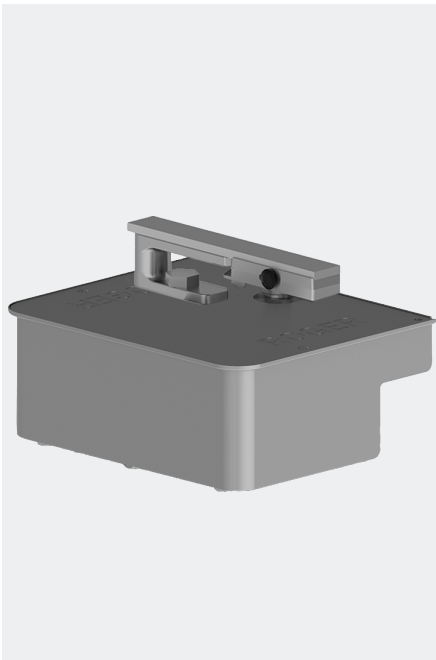


SERVICING W.A | RESIDENTIAL & COMMERCIAL



T E C H N I C A L D A T A S H E E T

UNDERGROUND



Electromechanical underground motor, BRUSHLESS, low voltage, super intensive use, with native encoder onboard, irreversible, ideal for swing gates with leaf up to 4.5m.

Variant SKU	Underground BR21
Max Gate Weight	800kg
Max Gate Length	4.5m per leaf
Opening Time at 90°	19–29s
Power Line Supply	230V AC – 50Hz
Motor Supply Voltage	36V AC
Power Rating	200W
Duty Cycle	100% Intensive Use
Thrust	2200N
Operating Temperature	–20+55°C
Protection Level	IP67
Reductor Type	Irreversible
Limit Switch	Mechanical Stoppers
Backup Batteries	(Separate Enclosure)
Control Board	EDGE-1
Encoder	Digital encoder + SENSORLESS 48 PPR
Max Opening	105° (optional 125°–360°)
Power Supply Cable Length	2m

ROGER TECHNOLOGY

Underground BR21



19–29s



800



Warranty


 100%
Duty Cycle

Recommended Accessories:



Remote

Universal Control System



Back-up Battery

External Battery Back-up 36V



Chain-driven Arm

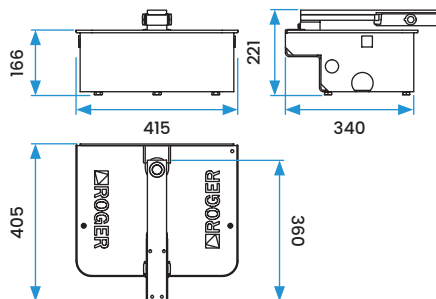
Arm for 360° Kit



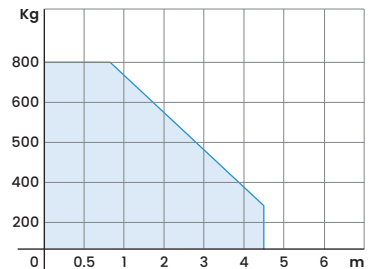
Photocells

15m Range

Dimensions:

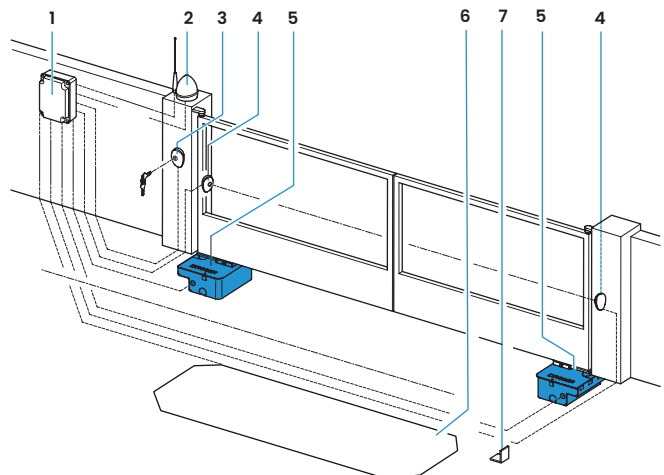


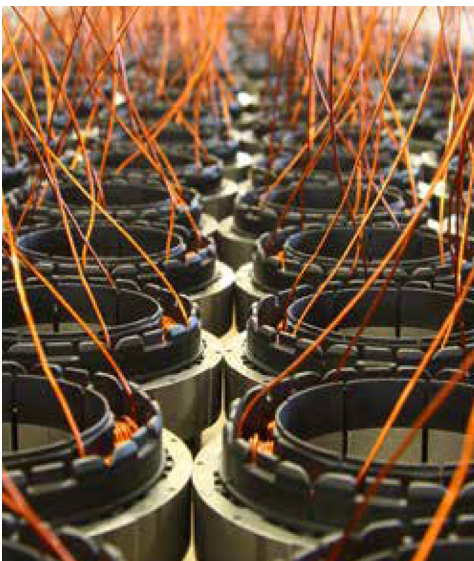
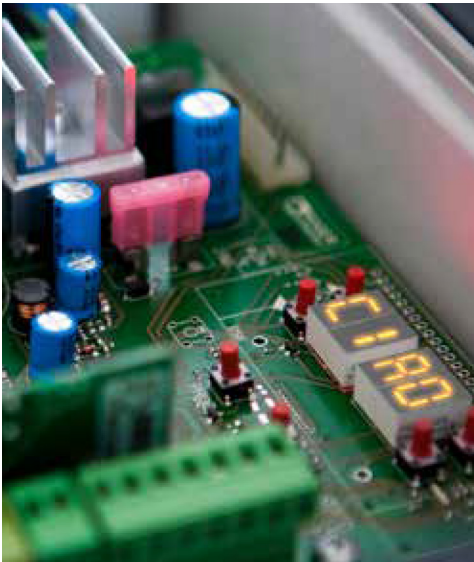
Operating Limits



Typical Swing Gate Set Up

1. Control Box
2. Antenna/Fashing Light
3. Keypad/Exit Button
4. Safety Beam
5. Motor
6. Loop Detector/Probe
7. Gate Stop





- **Brushless Digital Motor**

Features a compact design with neodymium iron-boron magnets, available in 24V & 36V AC versions, operating at ambient temperature with low consumption.

- **Speed & Acceleration With Maximum Safety**

Controls motor torque precisely for smooth acceleration and deceleration, ensuring safety.

- **Super Intensive Use**

Operates at low voltage with a 100% duty cycle, maintaining low energy consumption.

- **External Transformer For Heavy Gates**

Low voltage options reduce installation costs where high voltage is unavailable.

- **Extremely Low Energy Consumption**

Consumes about 1/3 the power of other brands for the same gate weight and speed.

- **Amazingly Quiet**

Precision gearing and smooth torque control result in very quiet operation, ideal for residential applications.

- **Mechanical Stops**

Worm drive with mechanical stops.

- **Standby Batteries**

Emergency battery backup system available, with optional 'fail open' setting during power outages.

- **Multifunctional Digital Display**

4-quadrant display with 6 function keys for parameter adjustment, error checking, and self-learning.

- **High Precision Engineering**

Features premium materials and double shielded ball bearings for precise alignment and durability.

- **Reinforced Aluminum Body**

Aluminum housing reinforced with titanium and epoxy-painted for weather protection.

- **Sustainability**

Roger Technology is a green customer-centric company dedicated to creating sustainable products through environmentally responsible production processes, innovative technologies, and a culture that prioritizes the health, safety, and development of its workers and customers.



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