ROGER® TECHNOLOGY

PRODUCT TECHNICAL DATASHEET

TOWER PRO

ROGER TECHNOLOGY

SWING SLIDING CANTILEVER

TW110 BOX

- **Stainless Steel 316 enclosure**
- **Adjustable Motor Height**
- **Ergonomic Control Board Placement**
- **Easy Cable Access**
- **Built-in Battery Backup**
- **Status LED Indicator**
- **Versatile Accessory Mounting:** DIN Rail Compatible

TW110-1000-HS / TW110-1600-HS / TW110-2000

Electromechanical **HIGH SPEED BRUSHLESS** motor, low voltage, super intensive 100% duty cycle, with SENSORED digital magnetic encoder at 4096 Pulses Per Revolution (PPR), irreversible. Digital controller in pre-wired box, for gates up to 1600kg and 2000kg respectively.

Brushless **Intensive Use** **High Speed** **Digital Encoder**

	TW110-1000-HS	TW110-1600-HS	TW110-2000
Max Gate Weight	1000 kg	1600 kg	2000 kg
Power Line Supply	230V AC - 50Hz	230V AC - 50Hz	230V AC - 50Hz
Motor Power Supply	36V AC	36V AC	36V AC
Power Rating	240W	240W	240W
Duty Cycle	100% Intensive Use	100% Intensive Use	100% Intensive Use
Thrust	1150N	1250N	1700N
Operating Temperature	-20+55°C	-20+55°C	-20+55°C
Protection Level	IP44	IP44	IP44
Reductor Type	Irreversible	Irreversible	Irreversible
Manoeuvre Speed	25 m/min (420mm/s)	21 m/min (350mm/s)	12 m/min (200mm/s)
Limit Switch	Without Limit Switches - Optional	Without Limit Switches - Optional	Without Limit Switches - Optional
Onboard Control Unit	B70/1THP	B70/1THP	B70/1THP
Encoder	Digital Encoder + Magnetic Digital SENSORED, 4096 PPR	Digital Encoder + Magnetic Digital SENSORED, 4096 PPR	Digital Encoder + Magnetic Digital SENSORED, 4096 PPR
Batteries Recovery	Two Internal 12V 7AH batteries	Two Internal 12V 7AH batteries	Two Internal 12V 7AH batteries
Type Exit Gear	Z17/mod 4	Z17/mod 4	Z17/mod 4

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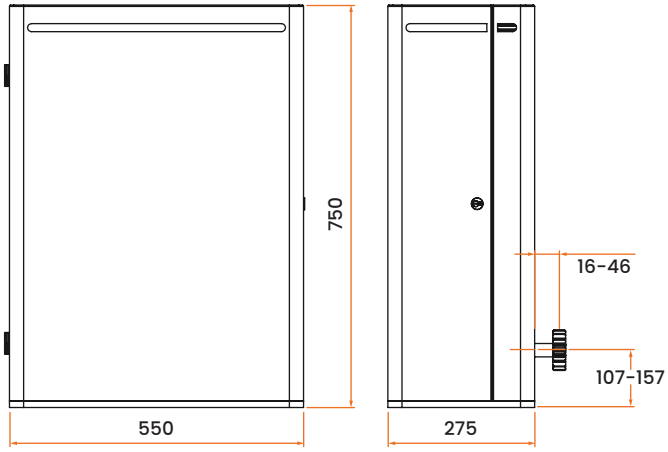
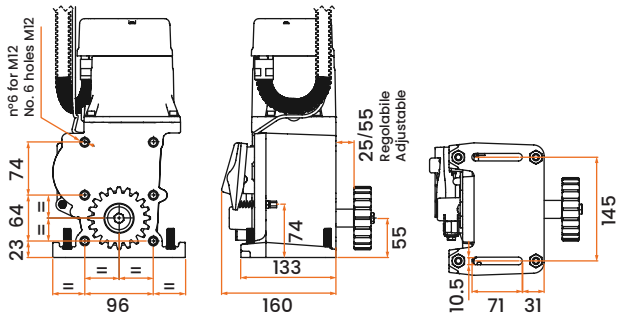
Dimensions

Control Box Fusion

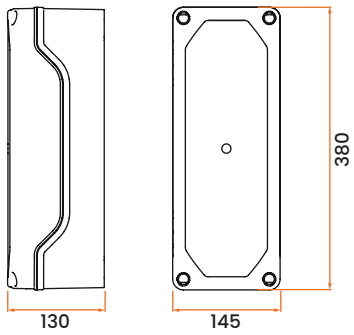


- Convenient access to control board and accessories
- Status LED
- Integrated Battery Backup

TW110 Motor

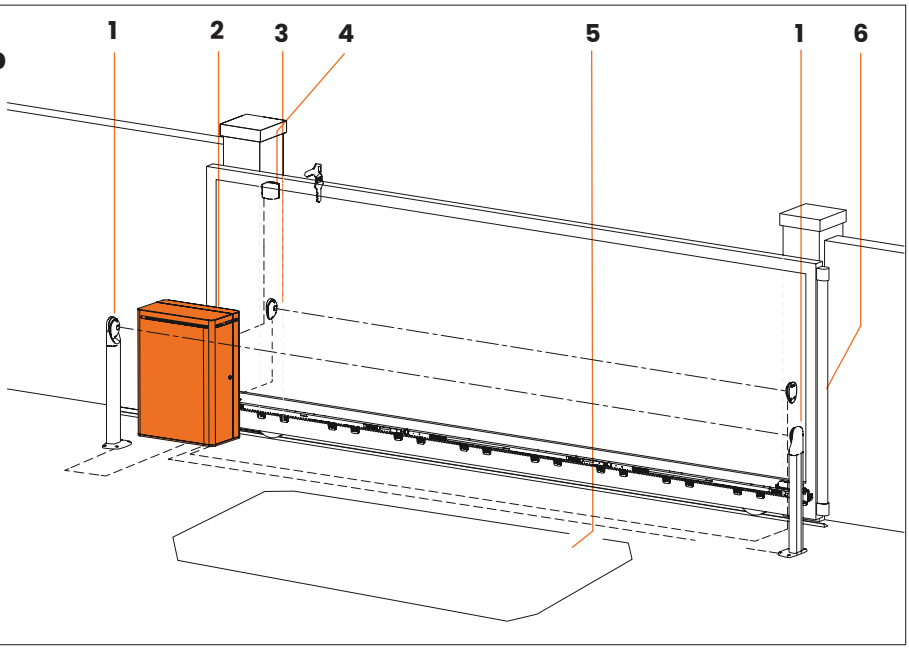


TW110 Control Unit Dimensions



Typical Sliding Gate Set Up

1. Photocells
2. Motor
3. Safety Beam
4. Keypad/Exit Button
5. Loop Detector/Probe
6. **NEW! Mayser Safety Edge**



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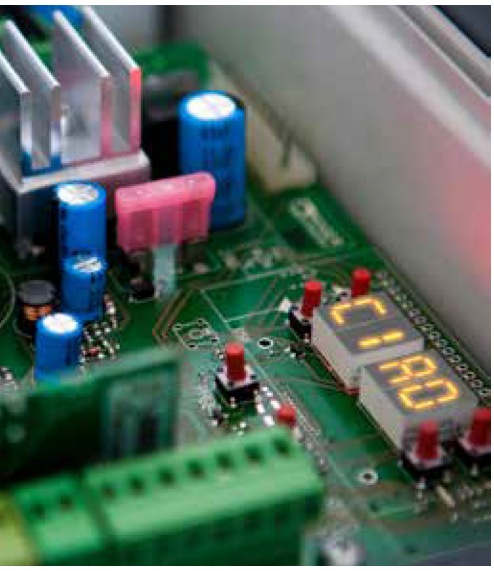
SWING SLIDING CANTILEVER



Brushless Digital Motor

This motor uses a permanent magnetic field with neodymium iron baron magnets inside the rotor. It has special coil windings and runs on a three-phase 36V AC for the TW110 power system. The motor is compact, operates at ambient temperature, very low energy consumption and for use in high duty cycle applications.

4096 PPR High Resolution Magnetic Encoder

This encoder ensures precise control of the motor's movements, especially during acceleration and deceleration and detects obstacles accurately.

Precision Engineering

The gear motor is made of aluminum, steel, and bronze. It uses high-quality double-shielded ball bearings for precise alignment and long-lasting, quiet operation.

Adjustable Pinion

Pinion easily adjustable on 7 positions. With the through type pinion shaft, the pinion distance can be adjusted via 5 mm steps, up to a maximum extension of 30mm.

Lock Release System

Internal lever unlocking system equipped with a magnetic release sensor, which allows the control unit to be informed of the unlocking status of the automation.

Emergency Battery Back Up

In the event of power failure housed within the enclosure are two x 12V DC 7AH batteries.

Optional Magnetic Limit Switch

An optional limit switch can be added, taking up minimal space in the automation system.

Sustainablity

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.