

# 5100 series sliding doors

Automatic door technology as you've never seen it before!



**record**

your global partner for entrance solutions

*Our top priority is your complete satisfaction with the quality of our products and services.*

**By this we mean:**

- Individual, professional advice in choosing building access solutions for people and goods;
- A wide range of high-tech products to meet the requirements of modern building automation;
- Elegant designs with numerous options, compatible with any architectural style or building plan.

There are 15 record subsidiaries in Europe and the USA, and we have over 50 years' experience in mechanics, sensor technology, electronics and software for automatic door systems and related products.

**Talk to us about your needs!**

*Thank you for your confidence in our company; we look forward to hearing from you.*



**record**

your global partner for entrance solutions

# 5100 series sliding doors

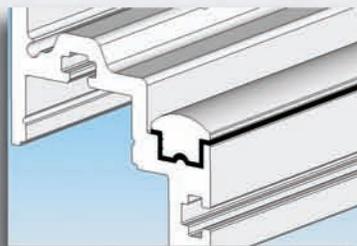
## Subassemblies you can rely on!

### Drive module

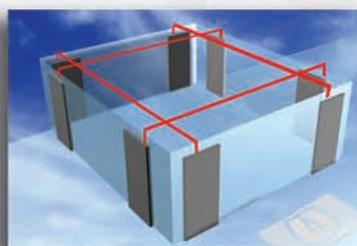
- The drive module is pre-fitted and pre-tested at the factory which assures reduced installation times and confidence that the door will work immediately after final programming.
- The module may be positioned in the center thus providing easy access to all components.
- A compact DC motor drive with electronic distance measurement and integrated safety switch drives door leaves weighing up to 300 lbs.
- The electronics recognize automatically all given parameters such as door leaf weight, opening width, surface frictional resistance, etc.

### Running gear

- 4 large rollers per door leaf made of a robust polymer guaranteeing flawless operation for many years. record proudly offers a 3-year warranty as standard.
- The material of the gear belt is reinforced with glass fibre.
- The track is specially anodized and lined with a rubber profile for incredibly silent movement, and backed by a lifetime warranty.



*Extruded track fully isolated with a neoprene dampener for fluid operation and exceptionally noiseless performance.*



*Built-in support for remote monitoring and control of door through industry standard CANbus.*

## Options

### Security locking

- Automatic locking of slide motion is available with a fully configurable, monitored electro-mechanical lock –
  - Fail Safe or Fail Secure operation
  - Lock engaged when system is in Automatic mode, Exit Only, Closed, etc.
  - Lock status is monitored for remote confirmation of security status of door
- Exit devices – both surface applied and flush-mount are available for securing the breakout function of the door without sacrificing exit compliance.
- Maximum security mechanical locks with interior thumbturns and exterior keyed cylinders are provided as a standard on all units.

### Remote monitoring

- A console is available, which can be remotely mounted, to control the operating mode of the door and provide both visual and audible feedback of door status.
- Additional monitoring of door position, breakout status, and automatic lock position is available for remote auditing by an independent agency.

### Emergency power

- For continued operation during a power outage, two optional systems are available:

Internal battery power – will operate the door for a limited number of cycles, then either close and lock the door, or open to the full open position.

Independent UPS (Uninterruptible Power Supply) – will keep the door fully functional for several hundred cycles and/or several hours of operation.

Drive mechanism built in Switzerland with world-renown Swiss precision and reliability.

Compact header design fits within standard 4-1/2" framing systems.

Diagnostic check of threshold safety beams on every door cycle.

Flush panic hardware available for inside slide and outside slide which will comply with existing exit codes.

### Functional control panel

- The 5100 introduces a new control panel with an intuitive interface and visual feedback of door status. Selecting the operational mode of the door is a single button press, and the built-in display will provide confirmation.
- The control panel can be manually locked, preventing unauthorized alteration by those who do not have permission to adjust the door.
- Two control panels can be installed on the same door; one at the unit and one remote.
- The control panel will automatically provide an Alert message if an abnormal condition occurs.



Optional built-in display control panel for setting operational modes and diagnostics.

Available remote handheld for adjustments, diagnostics, and software upgrades.



### Basic functions

#### Different operating modes

- Automatic mode with full opening width
  - Automatic mode with reduced opening width
  - Automatic mode in one-way (exit only) for traffic control
  - Adjustable reduced opening mode
  - Continuously open: door opens and remains in open position; either full open or reduced opening width
  - Off mode: door can be moved by hand
- The position of the obstacle is stored and will be slowly approached during the next door movement.
  - Even in the case of power failure the emergency fail close or the emergency opening is assured by the optional emergency power options.
  - Sidelight protection – Additional sensors located above the opening path of the door will slow the opening if a person or object will inhibit the door opening normally.

#### Safety functions

- Safety sensors (self-monitoring holding beams) in the clear opening of the door prevent the door from shutting if persons or objects are in the detection zone.
- Safety automatic reversing mechanism: if the door leaves are inhibited when closing, they are immediately re-opened (automatic reverse 2-step adjustable). If the door leaves are hindered when opening, they are immediately stopped.

#### Failure indication

- Any irregularity or fault is indicated on the control panel display.

#### Customer-specific settings

##### Programmable values

- Independent door speeds for opening and closing.
- Independent time delays according to actuation (automatic mode or key-operated impulse).
- Independent adjustable opening width at the reduced opening.
- Adjustable acceleration.

#### Additional functions

- Automatic cancellation of the reduced opening width when traffic is heavy.
- Emergency close with or without automatic locking (option to re-open the door after actuation of the emergency close and close again automatically).

### Options

- Emergency battery: in the case of power failure, the optional battery back-up device will perform flawlessly (including all sensing devices) for hours. When the battery's capacity is low the door slides to a pre-determined position (open, shut or locked). In the case of continued power failure the shut and locked door can still be opened automatically by a key-operated impulse.
- Electro-mechanical locking device concealed in the operator casing.
- Systems for locking device surveillance and alarm.
- Door leaf surveillance.
- Night control with time switch, key-operated impulse, electronic encoding switch or building services control system.
- Interlock control: Continuous interlock control or only selectable by external contact (key-operated contact or building services control system).
- Communication module for data exchange with a higher-level building services control system.

### Door closers

- Integrated support for hydraulic closers in both SX (slide/swing) and SO (swing sidelite) panels.
- Built into the top rail, door closers are available when specified, to ensure the door closes and remains operable after emergency breakout egress.

## Sophisticate™ All Glass Entrances



### Automatic telescopic sliding door

Door panels open and close in an elegant and noiseless movement and at different, harmoniously coordinated speeds. This interesting motion is not only aesthetically pleasing but also functional. The telescopic sliding door operator is ideal for narrow passages where the opening width obtained with a normal sliding door would not be sufficient. Crowded entrances are no problem as it opens quickly and quietly. The power transmission between the carriages of the slow and fast moving door leaves is achieved without drive by 2 guide pulleys -an additional advantage for the noiseless movement of the door leaves.

Automatic door technology  
as you've never seen it before!

Showcasing a building, emphasizing a lobby or creating an illusion of openness, the Sophisticate All Glass Automatic Sliding Entrance allows the beauty and elegance to show through the entrance area with clear line of sight unhindered by vertical stiles.

This entrance creates an unobstructed view of either the interior or exterior of a building while providing the smooth quiet and reliable operation that sets the standard for the industry.

Designers can choose many of the same options and configurations that are available on other record sliding entrances without compromising the entry/exit area. Compact and attractive, the operator and control are housed in a continuous aluminum header with extra large rollers and a dampened track to provide a dependable mechanism for long-life trouble free operation.

Clear and dark bronze finishes are standard, but the designer can choose from a wide variety of painted or clad finishes. Each sliding door opening has two safety beams and safety reversing. Emergency swing out of sliding doors is standard for compliance with egress codes.

Suitable for high end design applications as well as every day use, the Sophisticate Series is the perfect compliment for architectural design creativity in entrances.



your global partner for entrance solutions

4910 Starcrest Drive  
Post Office Box 3099  
Monroe, NC 28111-3099

800 438-1937  
704 289-2024 Fax  
[www.record-usa.com](http://www.record-usa.com)