record **SPEEDCORD**

crash-proof rapid shutter door for indoor applications

Brief description

The record SPEEDCORD is a rapid operating shutter door for indoor applications, easily installed between the warehouse and sales area, or between two warehouses.

Customers often install them in addition to manually operated gates and doors that are locked outside working hours. Due to fully integrated drive and control components, and the fact that the device uses 115 / 230 V mains power, the upgrade is comparatively easy to install and inexpensive to install and run.

Wide range of applications

The record SPEEDCORD also functions well as an inconspicuous, attractive visual barrier, or as a convenient goods entrance in supermarkets. The SPEEDCORD can also be used to connect two storage areas of different temperatures. The high opening and closing speed means low hold-open times, thus minimising thermal exchange, and waiting time is also practically eliminated. This is particularly important in the case of large doors commonly accessed by forklift trucks. The record SPEEDCORD can also be used to stop noise from spreading, e.g. from assembly line areas.

High level of safety

Extensive safety features protect users and materials from damage or harm. A light sensor recessed deep in the tracks detects obstacles in the closing area. The newly developed record anti-crash system (RACS) ensures that collisions with the record SPEEDCORD do not have serious consequences, and do not lead to other operational malfunctions.

Key data

→ Maximum size: 3 000 x 3 000 mm
→ Opening speed: 0.3 - 2.5 m / s
→ Power supply 115 / 230 V AC, 50 / 60 Hz

→ Shutter materials and finishes: 900 g / m2; a range of colours is available; printing and transparent areas are also possible
→ record BDE-D remote control
→ European approval

Options

→ Emergency manual operation using hand crank instead of hand wheel
→ Uninterrupted power supply (USV module) integrated into housing

Benefits

→ All drive elements integrated into housing; no protruding components
→ Modern brushless drive motor: powerful and low maintenance
→ Control panel integrated into doorframe; with graphic display (BDE-D)
→ Power supply is 115 / 230 V; no external wiring or switches required
→ Warning light with maintenance-free LED technology
→ Installation, maintenance and repair through Europe-wide record service network

Range of Applications

→ Interiors of food distribution centres, supermarkets, retail stores, logistics and freight forwarding companies
→ Assembly lines
→ Cargo areas at airports

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General description

The record SPEEDCORD has the following key features:

→ Roller shutter for indoor use

→ Aluminium frame for maximum dimensions of 3 000 x 3 000 mm

→ Drive unit fully integrated into the cross member, power supply: 115 / 230 V single phase

Cross Members

The cross members consist of a series of aluminium extrusions finished in epoxy powder coating in any RAL colour of your choice. The curtain, control logic and shutter drive unit are built into it.

Curtain and winding drum are connected together with clips, enabling quick and easy maintenance.

The control logic is based on record system 20 technology, also used in our automatic door systems. Microprocessor control allows for easy operation and configuration of the shutter.

→ Opening speed adjustable from 0.3 to 2.5 m / s

→ Closing speed fixed, adjustable from 0.3 to 0.8 m / s

→ Diagnostic input

The power supply allows connection to 115 / 230 V power, single phase, with a rated power consumption of 30 W.

Vertical rails

Made from extruded aluminium profiles; the finish is the same as the cross-members. Their shape enables the installation of the following items in an attractive manner:

→ Light curtain, positioned inside the curtain axis

→ Two vertical guide rails, which keep the shutter level

→ Polyamide brush seals on both sides, which ensure the curtain is sealed in the vertical over the entire length of the pillar

Curtain Materials:

→ Manufactured using high-frequency welded, fabric-reinforced polyester fibre, with double-sided PVC coating (weight: 900 g / m²; B1 according to DIN 4102-1 with 680 g / m²; other applications are available accordingly on request)

→ Available in 16 RAL colours, with transparent area and/or printed finish (for white curtains) or self-adhesive foils also possible

→ Sliding elements on both sides of the curtain provide resistance to both high and low pressure

→ In the event of an impact, the plane slides out of the longitudinal pillar and automatically threads back into the guide rails at the next cycle

→ A flexible deflector at the bottom end of the curtain compensates for surface irregularities

Control Circuit Board

This is installed in the left vertical rail, and includes the electronic control unit with LCD display. It is customer-programmable, and provides the following basic functions:

→ Automatic mode: sensors control the opening cycles

→ One-way operation: access in one direction only

→ Continuously open: the shutter remains open

→ Locked: shutter is closed; trigger device is inactive

→ Reset: resets the microprocessor

→ Self-diagnosis: possible malfunctions are displayed here, and can be read immediately

→ Emergency stop

→ Push button to open

→ Port for diagnostics

Security and Safety

SPEEDCORD roller shutters meet the requirements of EN 13 241-1, i.e.:

→ A light curtain in the curtain axis protects people up to a height of 2.5 m. Protection can also be enhanced by adding RIC 290 / AIR 290 sensors in combination.

→ Two orange LEDs indicate opening and closing operations; adjustable early warning

→ The curtain's static unbalanced force is within the safe margin of < 20 daN

→ In order to ensure safe operation, closing speeds are less than 0.5 m / s (minimum 0.3 m / s)
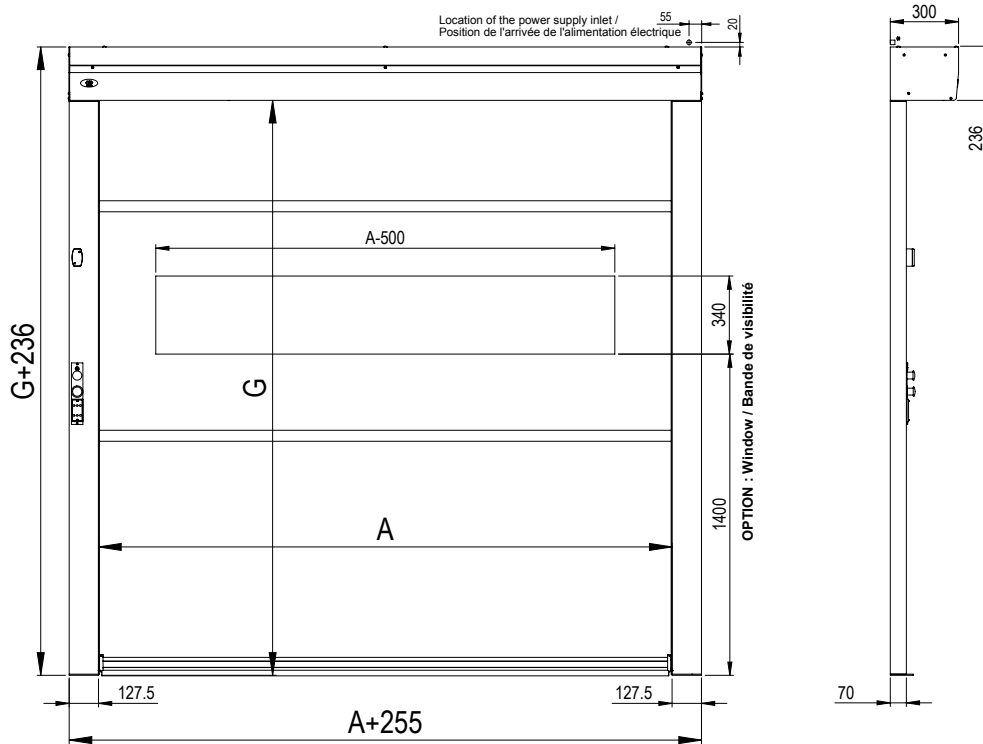
Assembly

Installation of the above-listed items, including:

→ design and location of the automatic shutters

→ installing framework and sealing profiles

→ installing control panel and accessories

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Dimensions

Location of the power supply inlet /
Position de l'arrivée de l'alimentation électrique

55 20

300

236

G+236

A-500

340

OPTION : Window / Bande de visibilité

G

1400

A

127.5   127.5

A+255

70

A = opening width

G = opening height

Space requirements for assembly:

A + 10 mm, G + 15 mm

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Specifications

Key Data

Width of passage A	1 000 – 3 000 mm
Height of passage G	2 040 – 3 000 mm
Total width	A + 255 mm
Total height	G + 236 mm
Drive housing depth	300 mm
Vertical rail depth	70 mm

Electrical connection data

Key Data

Mains voltage	115 / 230 VAC, 50 / 60 Hz
Rated power	30 W at 30° C
Consumption in standby mode	7 W (including sensors, remote control and lock)

Environmental conditions

Key Data

Temperature range	+ 3° to + 50° C
Humidity range	Up to 85 % rel. humidity, non-wetting
Wind pressure	Up to 45 km / h shut; up to 17 km / h in motion

General technical characteristics

Motorisation and drive

Gears	Brushless, 3-phase internal rotor motor with EC technology
Motor output	370 W
Drive	Chain and steel sprocket

Structure and roller shutters

Roller shutters	high frequency welded, toughened PVC, 900 g / m²
Material and Structure	Steel and lacquered aluminium

Functional safety

Maximum opening speed of shutter	0.3 - 2.5 m / s
Closing speed	0.3 - 0.8 m / s
Personal protection in line with EN 13 241-1	Type E

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