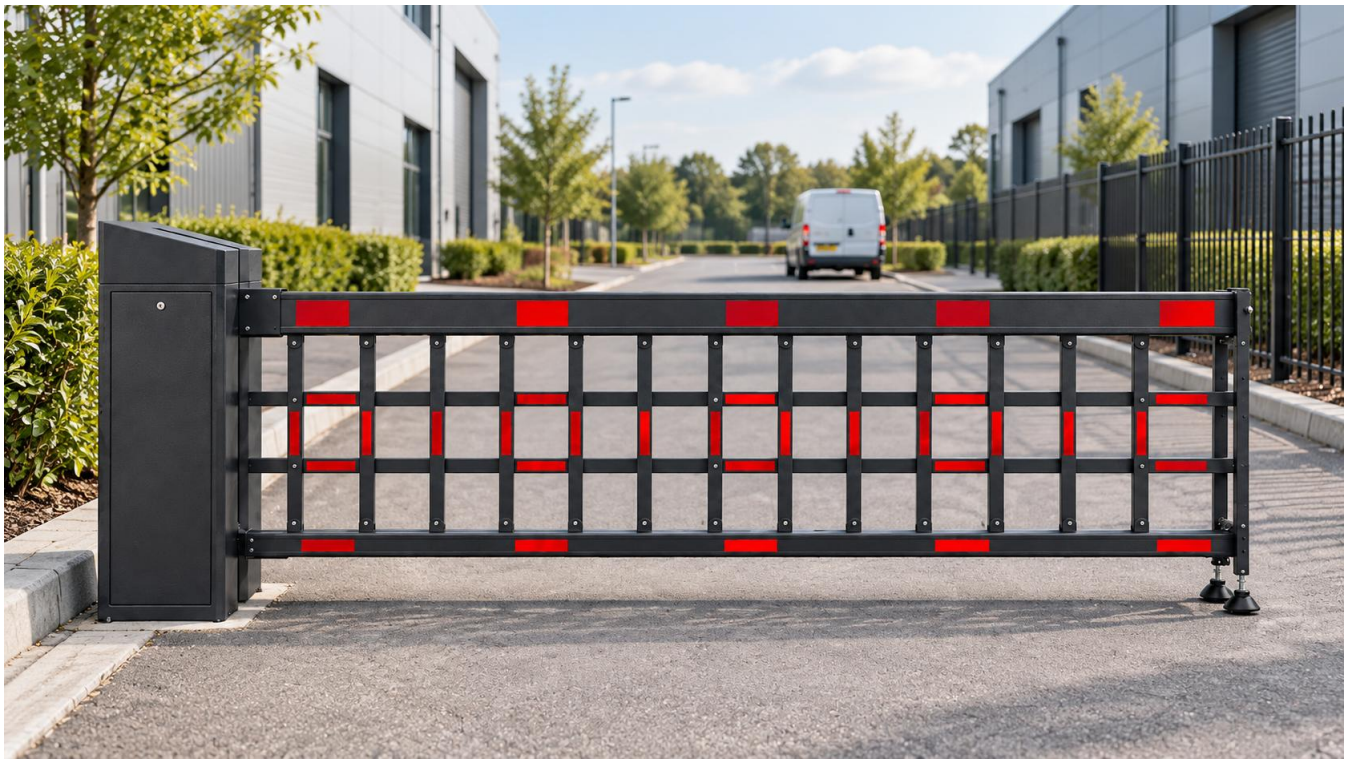
PRODUCT DATASHEET

SXK-KJZ01

Airborne Heavy Duty Barrier

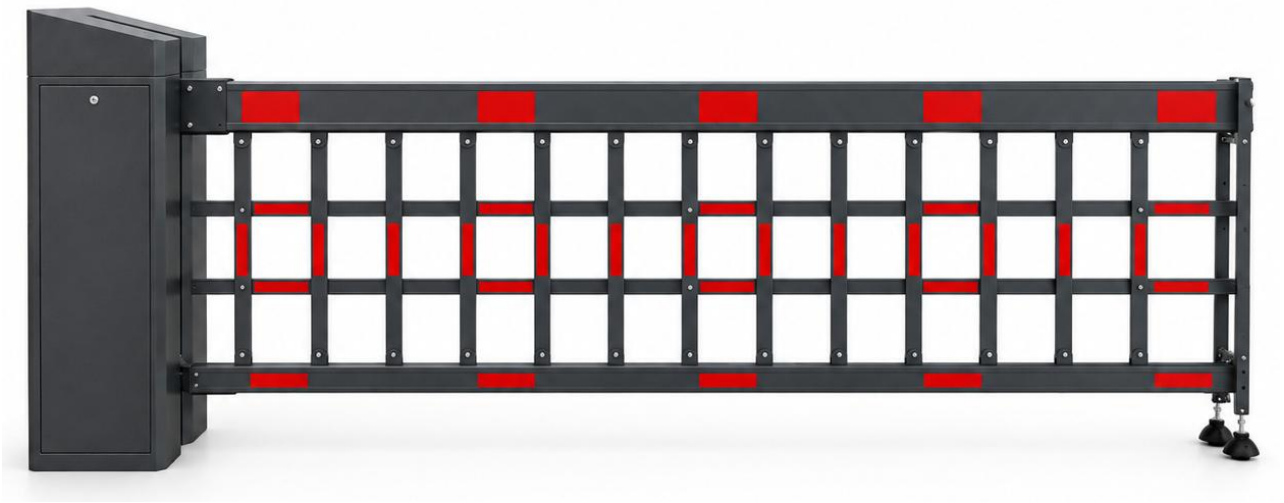
Automatic rising fence barrier | KJZ01 DC brushless control



Illustrative application at an industrial park entrance

Drive configuration	Overall length reference	Fence top rail reference
24 V DC brushless	Up to 7.25 m including cabinet	1200 mm above ground

The KJZ01 combines a tall cabinet with a rising four-rail fence assembly for vehicle access control at industrial, commercial and residential entrances. Its fence provides a clear physical boundary across the lane, while the KJZ01 controller allows motion, detection and access logic to be configured for the site.

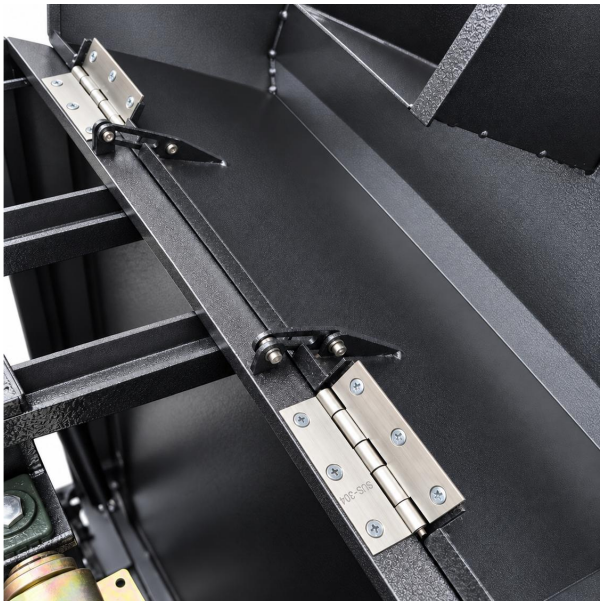


Four-rail fence configuration with red reflective markings and adjustable tip rests

Fence assembly and drive

The fence configuration closes the space below the main boom and gives the entrance a more prominent boundary than a single arm. The complete fence, holder and spring balance are selected as one assembly.





Fence frame and adjustable end rests | Cabinet service-access detail

Four horizontal rails and vertical infill. The pictured assembly combines a main boom, lower rail, two intermediate rails and vertical members. This forms a continuous fence pattern across the controlled lane.

Large structural sections. The supplied dimensional reference specifies a 150 × 50 mm main boom, 86 × 44 mm lower rail and 55 × 16 mm vertical and cross members. Final length and configuration are matched to the drive.

Adjustable moving tip rests. The two rests at the free end support the lowered fence. Set their contact height to suit the finished pavement; both remain attached to the moving assembly and clear the lane as it opens.

A rising barrier for confined entrances. The fence rises with the boom instead of sliding along a long runback area beside the driveway. Confirm the full overhead and lateral swept envelope for the selected fence length.

Controlled brushless movement. The 24 V DC brushless drive works with independent opening and closing settings, acceleration control and a slow final approach. Tune the movement to the mass and balance of the installed fence.

Visible finish and service access. The dark textured finish and red reflective markings define the barrier in the entrance. The lockable cabinet door provides access for inspection and adjustment by service personnel.

Use the approved fence assembly and support arrangement. Changes to length, added signs or other attached equipment require a review of balance, motion settings and clearances.

Motion and vehicle protection



Conceptual system interfaces. External detection and access devices are selected separately.

Independent opening and closing profiles. Set opening and closing speed separately, with individual acceleration times, deceleration start angles and end speeds. The final low-speed zones and horizontal and vertical trim help the fence settle at its end positions.

Adjustable reversal on contact. Resistance threshold, detection duration and the active angle range can be set for obstruction response. During closing, a qualifying obstruction causes the boom to reverse. Commission these settings with the complete fence fitted.

Detection before contact. The vehicle detector and protection inputs accept compatible external devices. A detector can command reopening during descent or hold the configured closing logic until the vehicle has passed.

Timed and passage-based closing. Set an automatic-close delay from 0 to 255 s, with 0 disabling that timer. A separate passage delay controls the time between a detector clearing and closure, allowing the lane sequence to suit the site.

Command counting. The controller can count opening commands and subtract vehicle-passage detections before closing. Modes allow a small fixed queue or up to 255 commands; the result depends on reliable detector signals.

Fleet passage and opening priority. Fleet mode holds the barrier open for a supervised convoy until the appropriate closing command. Selectable opening-priority logic defines how commands are handled while the boom is rising.

End-position learning and holding. Automatic or manual limit learning establishes travel endpoints. Adjustable powered holding is available at the open and closed positions; holding power and duration are set for the actual mechanism.

Electrical protection and feedback. The controller provides over-current, overload, short-circuit, motor-fault and reverse-polarity protection. The local display shows operating states, faults and optional motor voltage or current readings.

Command counting coordinates access requests and detector events; it does not independently detect tailgating. Powered holding consumes energy. Protection devices and controller settings must be verified as a complete lane system.

System integration and operating modes

Connection	Capability	Configuration reference
Command terminals	Open, close and stop inputs with common GND	Compatible access controller or local controls
Vehicle detector input	Presence and passage-triggered logic	VD input; delay and counting through P-32 to P-38
Protection input	Reopening or selected reassigned input function	AS input; mode selected through P-27
Two relays	Position feedback, traffic indication, pulse or alarm modes	Shared outputs; combination selected through P-44
RS485 A and B	Serial integration and master-slave configuration	P-55 baud rate, P-56 address, P-57 role
Receiver connector	Compatible remote transmitter learning	P-11 and P-12; receiver and transmitter dependent
Light-sensor connector	Threshold-based switching of optional lighting	P-41 and P-45 to P-48
12 V auxiliary terminals	Supply for compatible low-power equipment	Confirm the connected load and supply arrangement

Relay functions and lane signaling

Select end-position feedback, direction or movement status, detector or open-signal transmission, a brief position pulse, or red and green traffic-light control. The two relays are shared resources, so the selected output mode determines which functions can operate together.

Serial and paired operation

RS485 supports selectable baud rates from 9600 to 115200, a controller address and master or slave operation. Confirm the command protocol, firmware compatibility and detection logic when integrating a site system or coordinating a pair of barriers.

Optional lighting and emergency opening

A light sensor can control optional lamps with adjustable switching thresholds and delays. A selectable input mode can also open the barrier and enter fleet mode from an emergency signal. Reassigning a terminal changes its original function, so allocate protection inputs accordingly.

Power interruption and idle movement

With a matched backup power supply, voltage-triggered settings can request opening, closing or a defined intermediate action during supply loss. Temperature-triggered exercise and periodic movement during long idle periods are also configurable. Enable these functions only where automatic movement suits the site operating plan.

Detectors, access readers, traffic lights, lighting drivers and backup power are project options. RS485 support does not by itself establish compatibility with a particular third-party protocol.

Technical specifications

Fence and cabinet reference configuration

Parameter	Reference specification
Product model	SXK-KJZ01 airborne heavy duty rising fence barrier
Fence configuration	Four horizontal rails with vertical infill; dark finish and red reflectors
Cabinet dimensions	460 × 545 × 1400 mm nominal W × D × H
Maximum overall length	7250 mm including cabinet; configured to the site
Fence top rail height	1200 mm above ground in the supplied dimensional reference
Lower rail ground clearance	180 mm nominal in the supplied dimensional reference
Main boom section	150 × 50 mm nominal
Lower rail section	86 × 44 mm nominal
Vertical and cross members	55 × 16 mm nominal
Tip support	Two adjustable moving end rests as pictured

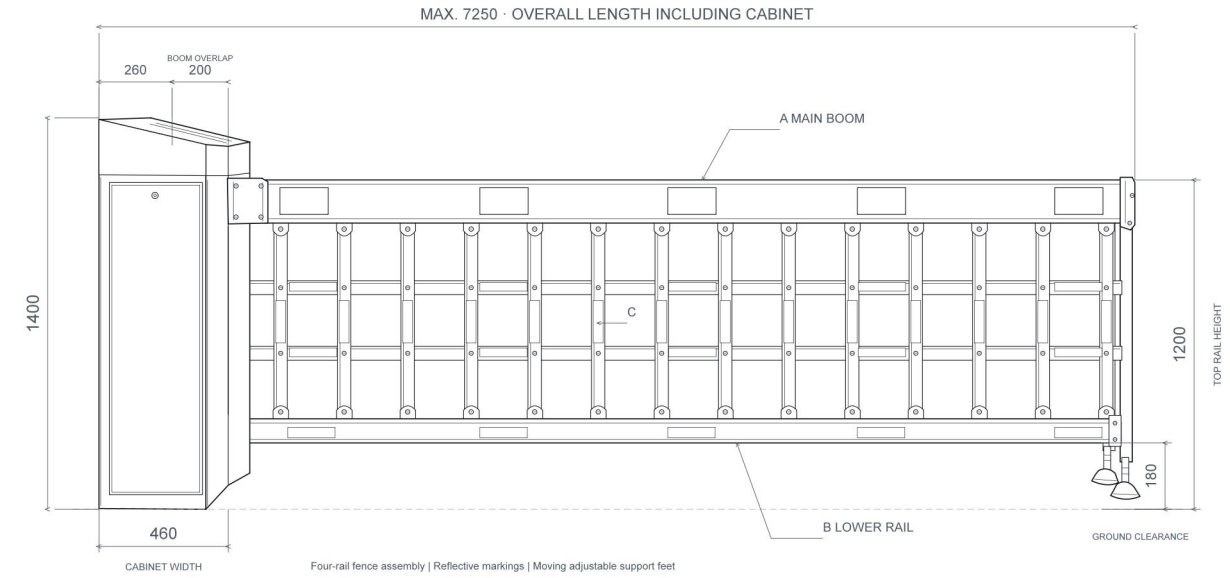
Control and electrical configuration

Parameter	Specification
Drive and controller	DC brushless motor with V3.7 controller configuration
Controller supply	24 V DC ±10%, 10 A; matched power supply required
Input power	AC220/110V, 50/60Hz
Rated power	300W
Controller standby power	Less than 2 W; excludes motor holding and external loads
Opening and closing movement	Independently adjustable; travel time set for the installed fence
Automatic-close timer	0–255 s; 0 disables timer-based closing
Post-passage closing delay	0–25.5 s in 0.1 s increments
Command count	Selectable modes; up to 255 opening commands in the extended mode
Outputs and communication	Two configurable relays; RS485 A/B
Controller ambient range	-35 to +75 °C; 30–80% RH, non-condensing
Supply-loss operation	Requires matched backup power and configured voltage/action settings

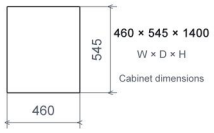
The dimensions describe the supplied brushless drawing reference. Overall length includes the cabinet and is distinct from the usable lane opening. Electrical and environmental figures above apply to the D8 controller; select the complete assembly and accessories for the site.

KJZ01 AIRBORNE HEAVY DUTY BARRIER

PRODUCT LINE DRAWING / DC BRUSHLESS VERSION / DIMENSIONS IN mm



CABINET FOOTPRINT

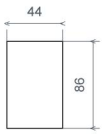


A MAIN BOOM SECTION



150 × 50
Rectangular profile

B LOWER RAIL SECTION



86 × 44
Rectangular profile

C VERTICAL / CROSS MEMBER



55 × 16
Vertical / cross member

All dimensions in millimetres. Overall length includes the cabinet. Illustration not to scale.

KJZ01 / DIMENSIONAL REFERENCE / Rev 1.0

Applications and project specification

Use the KJZ01 where a rising fence is preferred to a single boom for controlled vehicle access. Select the fence length, operating sequence and detection layout around the vehicles and people using the entrance.

Application	Typical use
Industrial and business parks	Controlled access to company premises, service roads and staff parking.
Logistics sites and vehicle depots	Managed entry for delivery vehicles, authorized fleets and supervised convoys.
Residential developments	Entry to managed estates and shared parking with authorized vehicle access.
Institutional and office campuses	Controlled staff and visitor lanes at administrative or business premises.
Commercial parking entrances	Access linked to a compatible parking controller, reader or plate-recognition system.

Project options

Selection	Specify with the order
Fence and mechanical assembly	Finished length, installation side, holder, spring balance and end-rest height.
Vehicle and protection detection	Compatible loop detector, radar or photocells with a suitable site detection plan.
Access and local controls	ANPR, credential reader, intercom, remote transmitters or pushbuttons through compatible interfaces.
Lane indication	Traffic lights, warning devices or optional lighting with confirmed output and power requirements.
Paired operation and backup power	RS485 integration, coordinated logic and the required behavior on supply loss.

Installation and commissioning

Foundation and clearance. Provide a suitable foundation, anchorage, drainage and cable routes. Check the complete raised-fence envelope, lateral movement and end-rest contact points against buildings, signs and adjacent lanes.

Mechanical and motion setup. Fit and balance the approved fence, learn the end positions and tune acceleration, travel and stopping. Keep the fence clear of people and vehicles during setup; do not cut, extend or add weight to the assembly without approval.

Lane function tests. Verify commands, detector response, obstruction reversal, closing delays, fleet mode and selected relay functions. Test any paired or backup arrangement and record the final parameters before handover.

Ordering and service

State SXK-KJZ01 with brushless control, required clear opening, overall fence length, installation side and preferred operating time. Include the supply available on site, vehicle types, expected traffic, control interfaces and detection devices. Confirm final assembly dimensions and equipment scope with the order.

Inspect fence joints, fasteners, spring balance, support feet and cable connections during scheduled service. The digital display and four local keys support setup, voltage/current checks, fault diagnosis, test operation and controlled reset.

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Specifications and supply scope are subject to the confirmed order. Dimensions are nominal. Rev 1.0