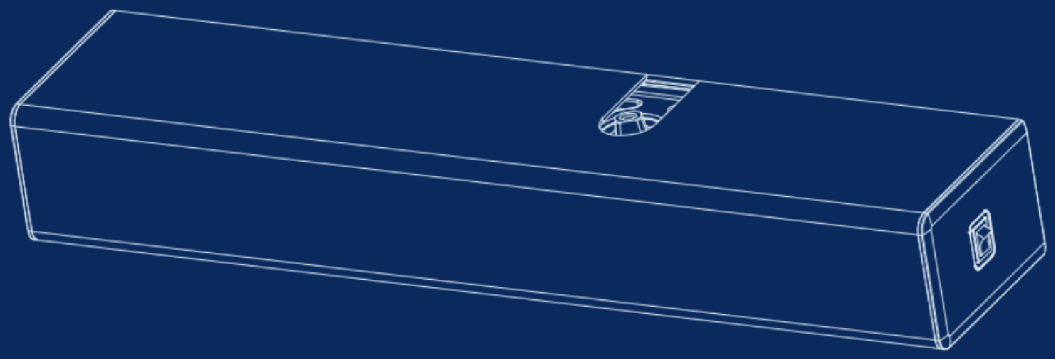
PRODUCT BROCHURE

REV. 2026.09



AUTOMATIC SWING DOOR · SPRING RETURN

CDS-SW85

Power open, spring close.
Built for the way you work.

TALK TO US

+27 83 236 8242

capedoorsystems.co.za

PRODUCT FEATURES

Six reasons the SW85 swing-door operator is the dependable choice for entrances that have to keep working.

01

Power open, spring close

A 24 V DC motor opens the leaf; a mechanical spring closer brings it back — so the door still closes when the power does not.

02

Pull arm or push arm

One drive, two mountings: pull arm for inward-opening leaves, push arm for outward-opening. Set on the S1 shift switch.

03

Self-learning at commissioning

One press of LEARN and the drive teaches itself the door's travel, opening direction and stopping points.

04

Hand open, spring close

The leaf can be pushed open by hand at any time and returns under spring control — no fighting the drive.

05

Anti-press as standard

Obstruction detection is fitted as standard, with inputs for safety sensors, access control and a fire-alarm signal.

06

Adjustable spring force

Spring preload is set on site through a view window, matching the closing force to leaves from 0.7 m to 1.4 m wide.

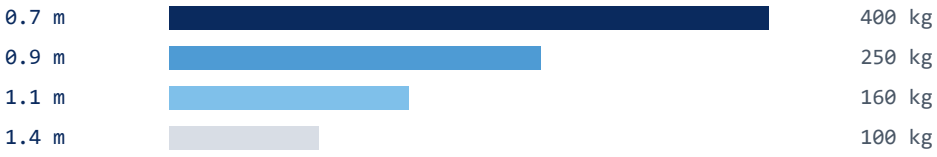
PERFORMANCE PARAMETERS

PARAMETER	CDS-SW85
Door type	Single leaf / double leaf (synchronised)
Supply power	AC 100–240 V, 50/60 Hz
Power consumption	100 W max
Drive unit	DC 24 V motor with mechanical spring closer
Anti-press device	Standard
Opening angle	80°–100°
Opening / closing time	3–7 s each (adjustable)
Hold-open time	0.5–30 s (adjustable)
Drive arm	Pull arm (inward open) / push arm (outward open)
Environment	−20 °C to +45 °C, ≤ 85 % RH

LEAF CAPACITY

WIDTH VS WEIGHT

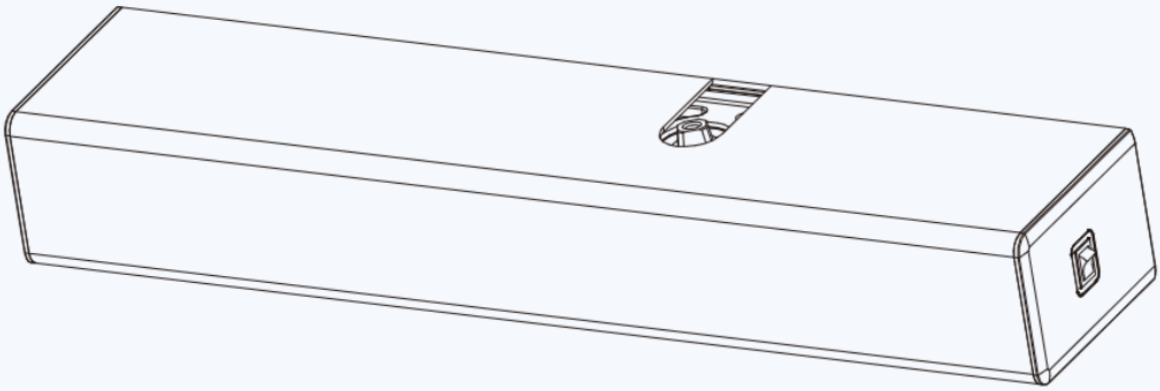
Maximum leaf weight falls as the leaf gets wider. Read the working point off the curve before selecting.



INDICATIVE VALUES READ FROM THE CAPACITY CURVE

PRODUCT DIMENSIONS

Operator housing and base-plate envelope. All dimensions in millimetres.



OPERATOR HOUSING — 610 × 128 × 88 MM

610 mm	128 mm	88 mm	530 mm
HOUSING LENGTH	HOUSING DEPTH	HOUSING HEIGHT	BASE-PLATE HOLE CENTRES

FIXING

Drive device hangs on the base plate and is tightened with 8 × M6 × 12 bolts.

ARM TORQUE

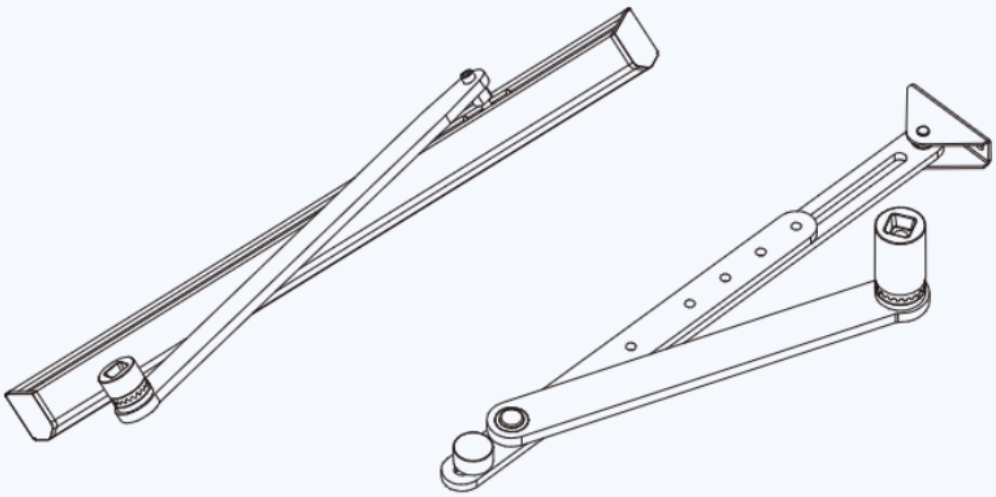
Spline-housing M8 screws torqued to 15 N·m, end faces fully fitted.

CABLE ENTRY

Separate holes for power and signal cable, left- or right-hinge handing.

WHAT IS IN THE HOUSING

Every part of the SW85 assembly, from base plate to end caps.



DRIVE ARMS — PULL ARM (LEFT) AND PUSH ARM (RIGHT)

Base plate

610 mm plate with slide rail, pre-drilled for power and signal cable entry.

Drive device

Motor, spring pack, controller, power supply and mains switch S3 on one chassis.

Cover and end caps

Slide-on cover with a pair of push-in end caps, fitted after debugging.

Pull arm

Slider arm with spline housing for inward-opening leaves, min. 680 mm wide.

Push arm

Linked arm with extended spline housing for outward-opening leaves.

Switches and interfaces

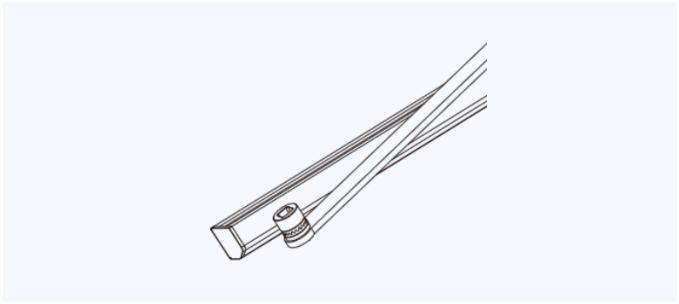
S1 pull/push shift, S2 function switch, signal interface and spring view hole.

TWO MOUNTING MODES

Set the S1 shift switch to match the arm before power-up — the drive will not run correctly on the wrong mode. Factory setting is pull arm.

Mode A

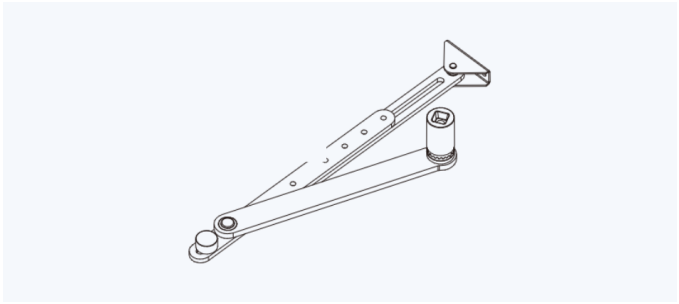
Pull arm



For inward-opening doors, drive on the inside. Minimum door-leaf width 680 mm. The slider runs in the base-plate rail.

Mode B

Push arm



For outward-opening doors, drive on the inside. The reveal between door face and opposite wall must be less than 180 mm.

OPENING ANGLE

Set the stopper so full opening stays under 100°, or the spring cannot close the leaf.

SPRING FORCE

Preload leaves the factory at minimum; increase it to the door weight, but keep hand opening easy.

POWER-FAIL CHECK

Open by hand to full angle and release: the leaf should close slowly, with resistance.

SETTINGS & TERMINALS

Press MOD on the setting panel to enter the menu, ▲ / ▼ to change a value, SELECT to confirm.

PARAMETERS

Opening speed	od 05
Closing speed	cd 05
Hold-open time	on 02
Unlock delay	u 02
Closed force	cn 05
Installation mode	P · pull / push

DOOR DATA

Single / double leaf	S1 · 2Z / 2C
Door-to-door interlock	b · first / second
Lock function	L · on / off
Hand open	H · push / pull
Lock mode	Lo · manual / auto
Block reaction	n · reverse / stop

Terminals

P1 — inside / outside sensor, DC 24 V supply.
P2 — access control and fire-alarm signal.
P3 — safety sensor, safety closing and opening.
P4 — backup battery, e-lock, SYNC for double doors.

State switch S2

Manual — offline, motor stops operating.
Automatic — all signal inputs valid.
Hold-open — the door stays fully open.

LET'S TALK ABOUT YOUR PROJECT.

Whether you need a quote, a site visit, or technical advice — we're a call or a message away.

CALL US

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WHATSAPP

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