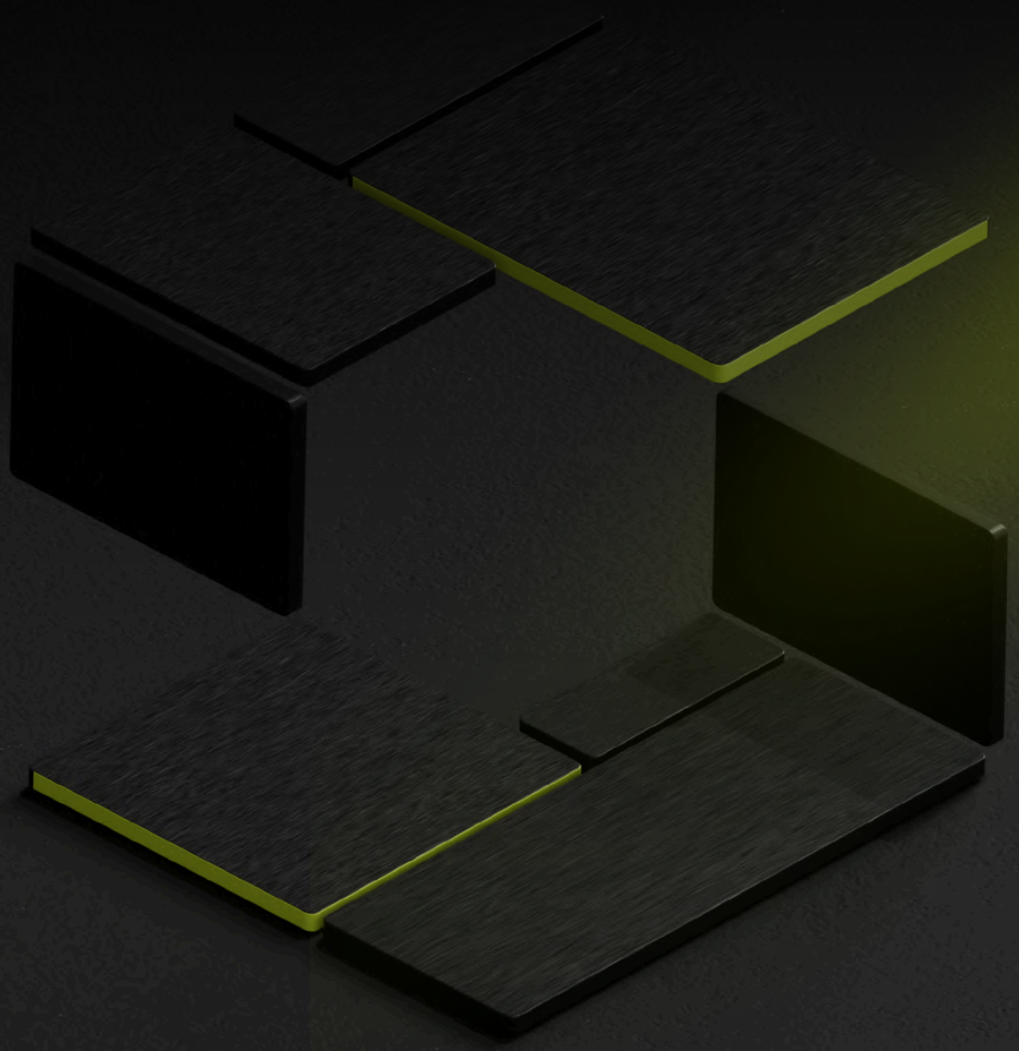
TECHNICAL SPECIFICATIONS & MAINTENANCE

S4S NORDIC Self-Storage System

Smart Soffit



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S4S NORDIC

1 PRODUCT DESCRIPTION

The S4S Smart Soffit System is an integrated LED lighting solution designed for self-storage corridors. LED lighting, motion sensor and dimming controls are built into the soffit in production and delivered as one tested, certified unit. Five segments at 4 786 lm each, more than 50 000 hours service life, easy to maintain and troubleshoot.

Product Type	Smart soffit with integrated LED
Application	Indoor self-storage facilities
Material	Steel
Length	3000 mm
Width	280; 500; 800 mm
Soffit colour	White
LED light colour	4000 K
Light Source	LED 250–350 lux
Sensor	Movement sensor every 15 m



2 TECHNICAL INFORMATION

LIGHT SOURCE
ED 250-350 LUX
illuminance · 4000 K

LED LIFETIME
>100 000 h · L80B30
>50 000 h · L90B10
service life, hours

INSTALLATION
Technical Info
plug-in · 24 V

CORROSION RESISTANCE
RC5
classification

TYPES


Width 280 mm


Width 500 mm


Width 800 mm

3 TECHNICAL SPECIFICATIONS

POWER	
System wattage	230 W
Voltage	230 VAC ±10%, 50 Hz · 24 V DC LED side
Supply current	1.1 A · power factor > 0.96
Max. units per breaker	C10: 5
LIGHT SOURCE	
Type of light source	LED · Samsung, 120 LEDs/m
Light source included	Yes · AKTO MFL/AFL strip
Luminous flux	23 934 lm (5 × 4 786 lm)
Efficacy	114.2 lm/W
LED light colour	4000 K
Colour rendering (Ra)	Ra ≥ 80
MacAdam factor	SDCM 3
Lifetime	>100 000 h · L80B30 | >50 000 h · L90B10
Light distribution	Direct · Lambertian, 120° beam angle
Optic	Frosted plastic lamp cover
Visible flicker	Flicker free
CONTROL / DIMMING	
Motion sensor	Merrytek MSA001D · every 15 m · up to 3 sensors
Driver type / dimming	PWM-200-24 · PWM dimming · DIP switch 0–63 min
Astro relay (optional)	PCZ-521 (1 pc.)
On/off switch	Rocker switch
Operating temperature	−10 to +40 °C (Tc point)
PROTECTION	
Luminaire class	Class II (device) · Class III (LED side)
IK class	IK08 enclosure · IK05 cable glands
IP class	IP56 enclosure (tested IPX0) · IP20 LED strip
Glow-wire test	650 °C enclosure · 750 °C cable glands
ENERGY AND APPROVALS	
Energy efficiency class	F · EPREL ID 2689299
Approvals	CE · RoHS · EU market
MATERIALS AND FINISH	
Housing	Aluminium LED profile
Control box	Halogen-free, UV-resistant thermoplastic · RAL 7035
Soffit colour	Glossy White
MOUNTING / CONNECTION	
Mounting	Surface, indoor · on unit walls with holders
Module	3000 mm
Connection	Plug-in · 3 m, 6 m and 9 m cables
Mains cable	3 × 1.5 mm² H05VV-F, 3 m · Schuko Type F
DIMENSIONS	
Length (mm) L	3000
Width (mm) W	280 / 500 / 800
LED profile (mm)	5 × 32 × 11 × 3000
Control box (mm / kg)	348 × 256 × 138 (with glands) · 2.74 kg
Weight, 1 pc	8.80 kg (280) · 13.40 kg (500) · 19.10 kg (800)



4 SPARE PARTS & REPLACEMENT

COMPONENT	DESCRIPTION
LED strip	AKTO MFL/AFL, Samsung LEDs, 120 LEDs/m, 14.4 W/m, 4000 K IP20 · cutting step 50 mm
LED profile and cover	Aluminium LED profile 32 × 11 × 3000 mm Frosted plastic lamp cover
Control box	Halogen-free, UV-resistant thermoplastic, RAL 7035 348 × 256 × 138 mm · IP56 · IK08
Motion sensor	One every 15 m, up to 3 per system DIP switch hold time 0–63 min
Cables	Plug-in connection cables 3 m, 6 m and 9 m Mains cable 3 × 1.5 mm² H05VV-F, 3 m, Schuko Type F

5 OPERATION & MAINTENANCE

ROUTINE CLEANING

- Clean with a paper towel or a soft, clean, dry cloth or sponge.
- If a damp cloth is used, the power must be switched OFF first.
- After damp cleaning, dry the surface with an absorbent paper towel or microfibre cloth.
- Never spray liquid directly onto a fitting, driver or sensor.

MAINTENANCE ITEMS

- Motion sensor — Merrytek MSA001D.
- LED driver — PWM-200-24, 24 V DC, in the control box.
- Astro relay — PCZ-521 (optional; in case delivered with original configuration).
- LED segment — AKTO AFLP-120V14424M-XW, 3 m.
- Keep spare units of each on site to keep downtime short.

INSPECTION / CONTROL

- Check that the lights are steady and not flashing.
- If one 3 m segment is off, check its plug-in cable to the control box.
- If that does not help, replace the segment — AKTO AFLP-120V14424M-XW.
- If several segments are off with 230 V on, replace the sensor (Merrytek MSA001D) or the LED driver (PWM-200-24).
- If lights switch off too early, adjust the DIP switch hold time (0–63 min).

SAFETY

- Switch off with the red rocker switch and unplug the Schuko plug before damp cleaning or replacing parts.
- Electrical work must be carried out by qualified personnel only.
- Use only equivalent, CE-marked replacement parts.
- Let fittings cool before handling.

DO NOT USE

Abrasive and aggressive cleaning agents such as scouring pads or steel wool · polish, detergent, furniture cleaner, bleach · detergents with strong acids or salts · steam cleaning equipment · any wet cleaning with the power on.

6 DRAWINGS



SOFFIT (x 5)

HOLDER (x 10)



SENSOR (x 1)



CONTROLLER UNIT (x 1)



SCREW (x 70)



CABLES (2 x 3m , 1 x 6m , 1 x 9m)

