PRODUCT DATASHEET

LED Strip for Barrier Arms

SXK-LEDS030/045/060

A flexible lighting accessory with 60 LED High brightness chips/m for parking barrier booms. The integrated light sensor activates illumination in dark surroundings, while the embedded **orientation sensor** selects red for a horizontal arm and green for a vertical arm.



Red and green illumination from the same strip assembly

Operating supply	Low light activation	Horizontal arm	Vertical arm
12V DC	Built-in **light sensor**	Red	Green

Product highlights

Automatic position indication. The embedded acceleration / orientation sensor changes the light color as the arm moves between horizontal and vertical positions.

Automatic activation in darkness. The photosensitive function turns the strip on in low ambient light without a separate external light-sensing module.

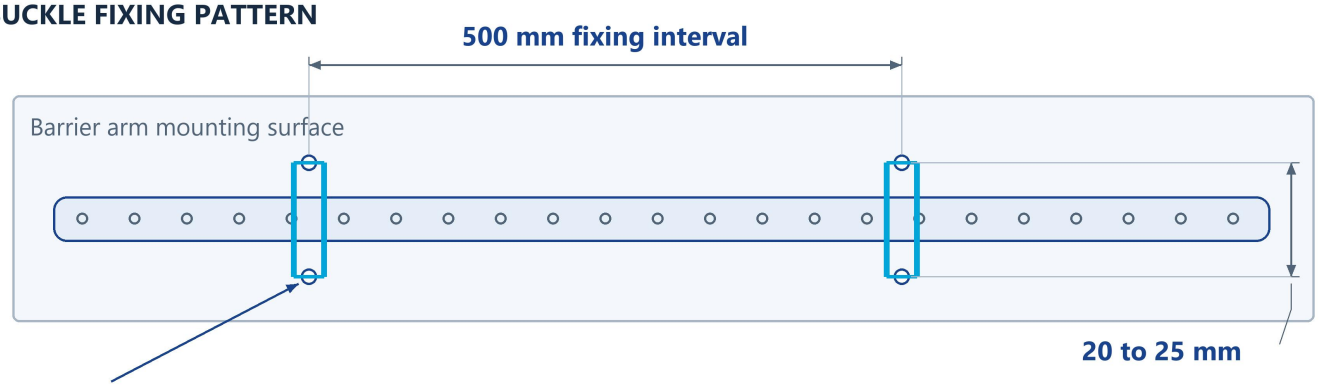
Flexible mounting. Attach the strip to the top, underside of a suitable boom. Top mounting is recommended, with tape and mechanical buckles retaining the full strip length.

Simple power connection. Connect the red and black supply leads to a suitable 12V DC supply(enclosed). The integrated controller handles the strip color response.

Specifications and mounting dimensions

Use the following mounting references for the tape and buckle arrangement. Match the supplied buckles and actual strip to the boom before drilling.

BUCKLE FIXING PATTERN



Two holes per fixing station
Hole diameter Ø3.2 mm

Tape supports the full length; buckles retain the strip.
Not to scale; finished strip width is not dimensioned.

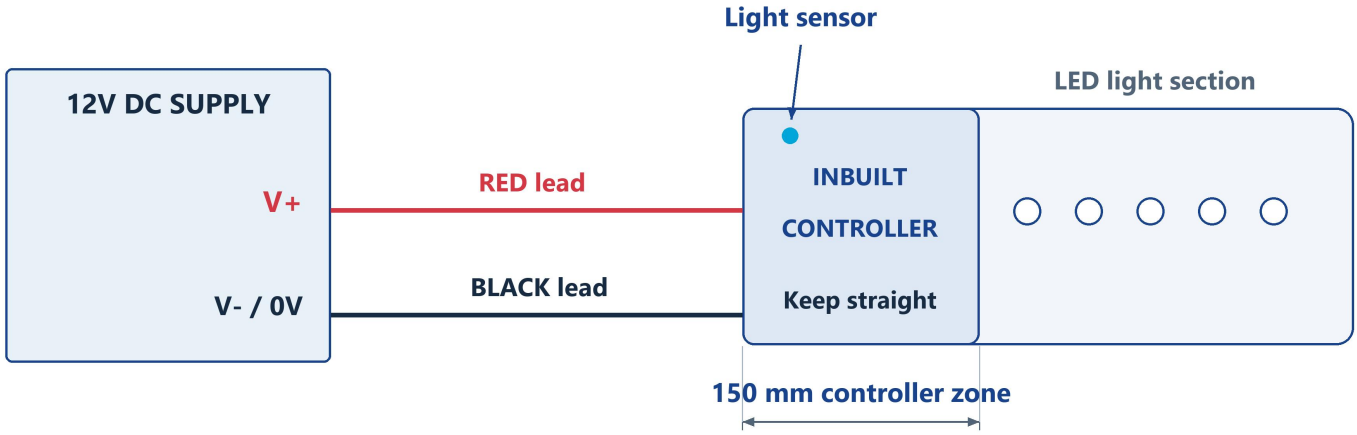
Parameter	Specification
Product type	Flexible red / green LED strip for barrier booms
Operating supply	12V DC, 2A
Power lead polarity	Red to V+ / positive; black to V- / 0V
Illumination colors	Red and green
Automatic light activation	Photosensitive function; illumination activates in dark surroundings
LED type	RGB5050 60/m, 10mm width
Working lifetime	50000hours
Position sensing	Embedded acceleration / orientation sensor on the control board
Horizontal arm indication	Red
Vertical arm indication	Green
Inbuilt controller zone	150 mm zone illustrated at the cable end; keep this section straight
Mounting position	Top recommended; may also be fitted underneath
Retention method	Double-sided tape plus fixing buckles; secure the entire strip
Fixing holes	Two Ø3.2 mm holes at each fixing station
Pair spacing	20 to 25 mm across the fixing pair
Fixing interval	500 mm along the boom
Length adjustment	Cut to fit using the specified procedure; reseal the cut end

Dimensions are installation references. Verify the actual strip and buckle fit on the selected boom before drilling. Secure the entire strip length and keep the controller zone straight.

Power and automatic control

The power cable feeds the integrated controller. Mount the controller firmly with the arm, keep the sensor area unobstructed, and retain the controller section in a straight condition.

12V POWER AND INBUILT CONTROL



Functional diagram | Supply rating must suit the installed strip | Geometry is schematic

Connection or feature	Function and installation requirement
Red lead	Connect to the 12V supply positive output V+.
Black lead	Connect to the supply negative output V- / 0V.
Supply selection	Use a 12V DC supply rated for the installed strip length and load.
Light sensor	Keep the sensing area exposed to representative ambient light.
Orientation controller	Retain its installed orientation and keep the 150 mm controller zone straight.

AUTOMATIC COLOR BY ARM POSITION



Check the sensor response in dark conditions with the arm horizontal and vertical. Illumination should be red when horizontal and green when vertical. Confirm intermediate movement behavior during commissioning.

The illustrated connection is a two-wire power feed to the integrated controller. The light indication follows the strip sensor response; it is not a substitute for vehicle detection or obstruction protection.

Installation and care

Fit the strip along the selected boom surface, secure the full length and protect the integrated controller from bending. Commission both the lighting and the complete barrier system.



Application examples | Horizontal arm in red | Vertical arm in green

Installation sequence

01 Prepare the mounting surface. Check the intended top, underside or side location. Mark the fixing stations, drill the specified pairs of holes and confirm that the buckles fit.

02 Tape and retain the strip. Apply double-sided tape, position the strip and press the flexible section firmly along the boom. Insert the buckles and secure the entire length without twisting or distorting it.

03 Protect the controller. Keep the inbuilt controller section straight and firmly retained. Route the power cable with movement allowance and strain relief, clear of the shaft and moving parts.

04 Connect and commission. Connect the 12V DC supply with the correct polarity. Check low-light activation and the red / green position response, then verify cable clearance through the full barrier movement.

Shortening and sealing

When shortening is required, preserve the controller and sensor area and follow the product cutting procedure. Reseal the cut end with the specified 704 silicone sealant to maintain water resistance. Do not use glass glue.

Do not bend the controller board, twist the strip or force it out of shape. Inspect the tape, buckles, cable and sealed ends during maintenance, and keep the light sensor clean and unobstructed.