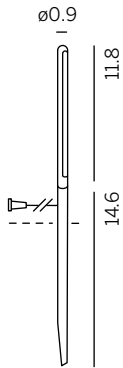


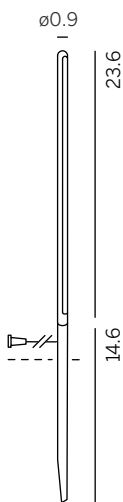
Solar Powered Outdoor Bollard Automatic Operation

kal solar join S



color	item no.	system performance
● deep black RAL 9005	93080-BL-JO	1.1 W/30 lm

kal solar join M



color	item no.	system performance
● deep black RAL 9005	93081-BL-JO	1.1 W/30 lm



requires solar join system see page 2

light technology:

LED
lithium-ion battery
1x 2600 mAh
2700K

operating time:

automatic switch-on at dusk
for a duration of approx. 5 hrs.

connection:

3.9 ft luminaire (05RN8-F 2x0.75 mm²)
including solar join plug

movable

material:

luminaire: aluminum die-casting
powder-coated + polycarbonate matte;
pole: stainless steel powder-coated

protection class:

IP65



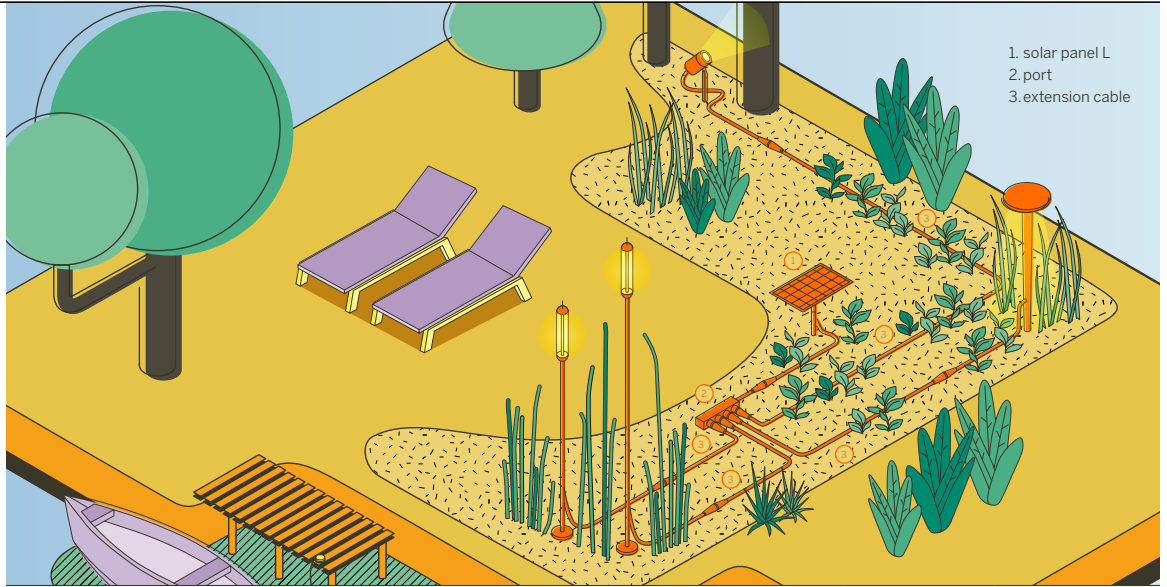
light direction:



mounting:

spike mount into soil or sod

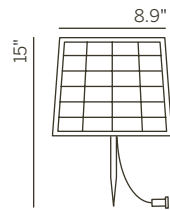
IP44.DE solar join offers very different solar luminaires with piek mini solar, reed solar and lix spike solar. They can be used in any combination with IP44.DE solar join.



IP44.DE solar join stores daytime light for nighttime hours. The system comes on automatically at twilight and goes off again at the latest five hours later. This also means our luminaire cluster never sheds more light than the amount of solar energy previously collected and stored. During the darker seasons, when the sun is low and after bad weather, the burn time is naturally less. But it is restored to full strength when the sun is higher in the sky and when there are more hours of sunshine.

required accessory

solar panel L



solar panel

lithium-ion battery
4x 2600 mAh
3.3 ft supply cable (H05RN8-F 2x0.03"²)
including solar join plug)
protection class: IP65

powers up to any 4 solar join fixtures

color

 **anthracite**
RAL 7016

item no.

53110-AN

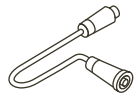
 **cool brown**

53110-CB

 **deep black**
RAL 9005

53110-BL

optional accessory



extension cable

solar join plug on solar join socket
cable: H05RN8-F 2xc
protection class: IP68

6.6 ft

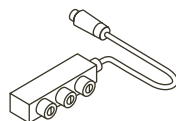
53102

13.1 ft

53104

26.2 ft

53108



junction

1x solar join plug; 2x/3x/4x solar join socket
cable: H05RN8-F 2x0.03"²
protection class: IP68

port 2

53122

port 3

53123

port 4

53124



T port 1x solar join plug; 2x solar join socket; cable: 05RN8-F 2x0.03"²

53125