SBPILED

Dupline® Carpark 3 LED indicator

Benefits

- Easy and fast installation
- Clearly visible LED indication in a 360° visual angle
- Select between 8 LED colours to indicate for instance "vacant", "occupied", "booked", "disabled"
- Programming and test over network by use of a central PC based configuration tool

Description

SBPILED is an 8-colour bus-controlled LED indicator and is part of the Dupline® parking guidance system.

This indicator is used in those cases, where it is required to have the sensor and indicator as two separate units.

The unit is to be mounted outside the parking bay along the driving lane, and it is used to indicate the status (e.g. vacant, occupied, booked).

It is controlled from the sensor SBPSUSL, which is mounted above the car in the middle of the space.

Applications

Parking Guidance Systems

Main functions

- This Carpark 3-LED indicator can be used to show the presence of a car in a carpark bay.

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Features

▶ **Power Supply**

Nominal supply	20-30 VDC, 27 mA, CL. 2
Consumption	0.78 W
Consumption on the Dupline® bus	1 mA

▶ **Input /Output Specifications**

RJ12 connector	Female: In base Male: With cable in sensor	Internal communication between sensor and base	
2 x 3-pin Connector (Only base)	Max. 1.5 mm²	D+	
		D-	
		POW	

Note: The base connectors are using the "push-wire-connection" method. Use a 1.5 mm² single core wire or a stranded wire with ferrules for the sensor installation.
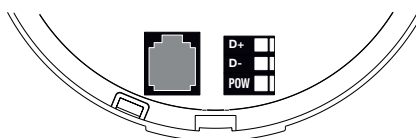
Fig. 1 *Input - output (Base A or B)*

▶ **Communication**

Protocol	Smart-Dupline®

▶ **Environmental**

| Operating temperature	-40 to 70°C (-40 to 158°F)
Storage temperature	-40 to 80°C (-40 to 176°F)
Degree of protection	IP34
Humidity	5-90% relative humidity
Pollution degree	3 (IEC60664)

Mechanics

Housing

Casing	ABS	
LED protection	Transperant polycarbonate	
Case colour	Light grey	
Dimensions	Base A + LED indicator	75.5 x 116 mm
	Base B + LED indicator	94 x 116 mm
Weight	Base A + LED indicator	175 g
	Base B + LED indicator	200 g

116 mm

75.5 mm

With Base A

94 mm
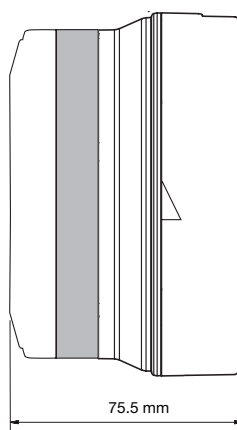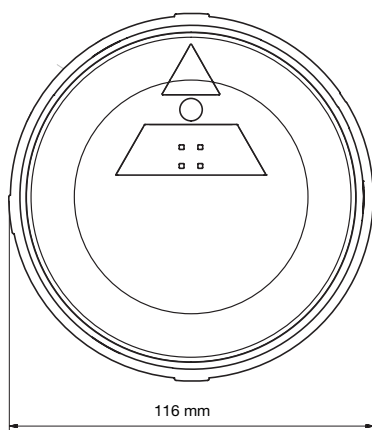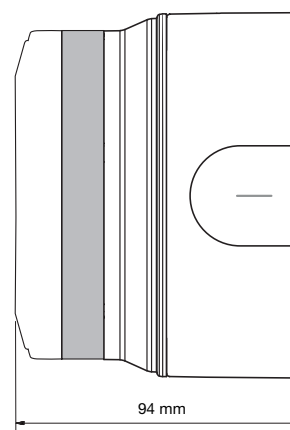
With Base B

▶ **Wiring**

Multiple sensors to one indicator

Sensor line

Sensor 1	Sensor 2	Sensor X

D+
D-
POW

SBP2MCG324

**Bus-controlled
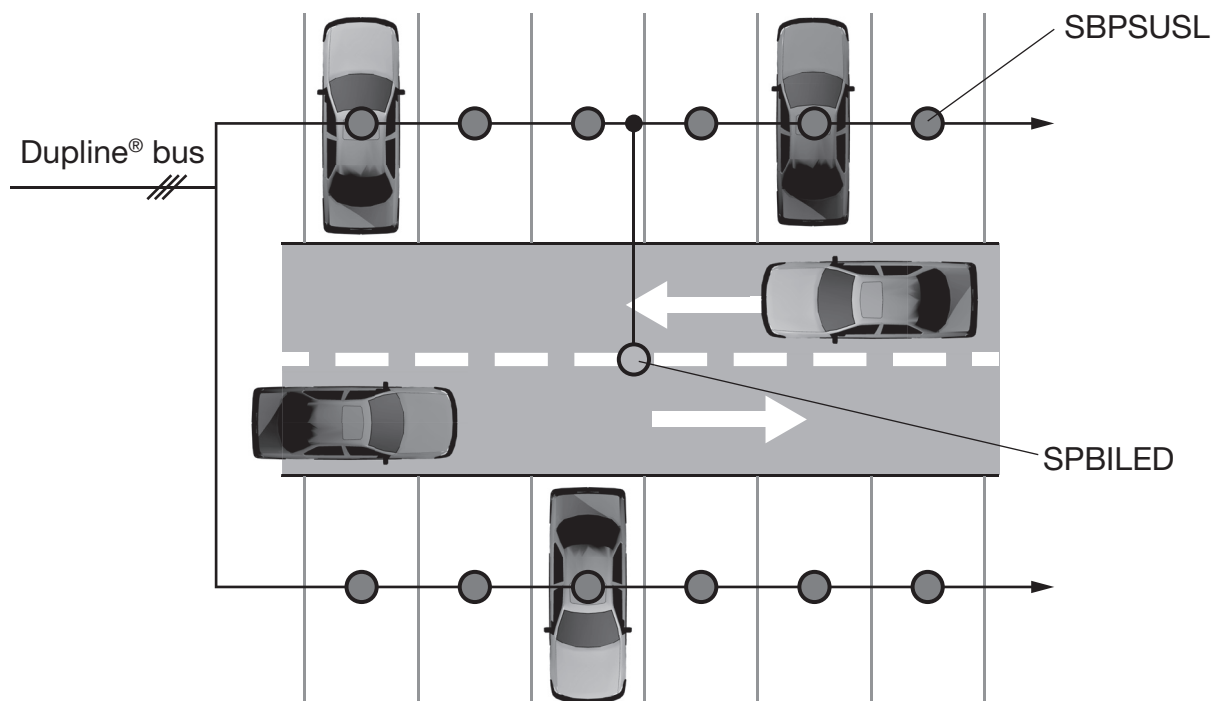LED indicator**
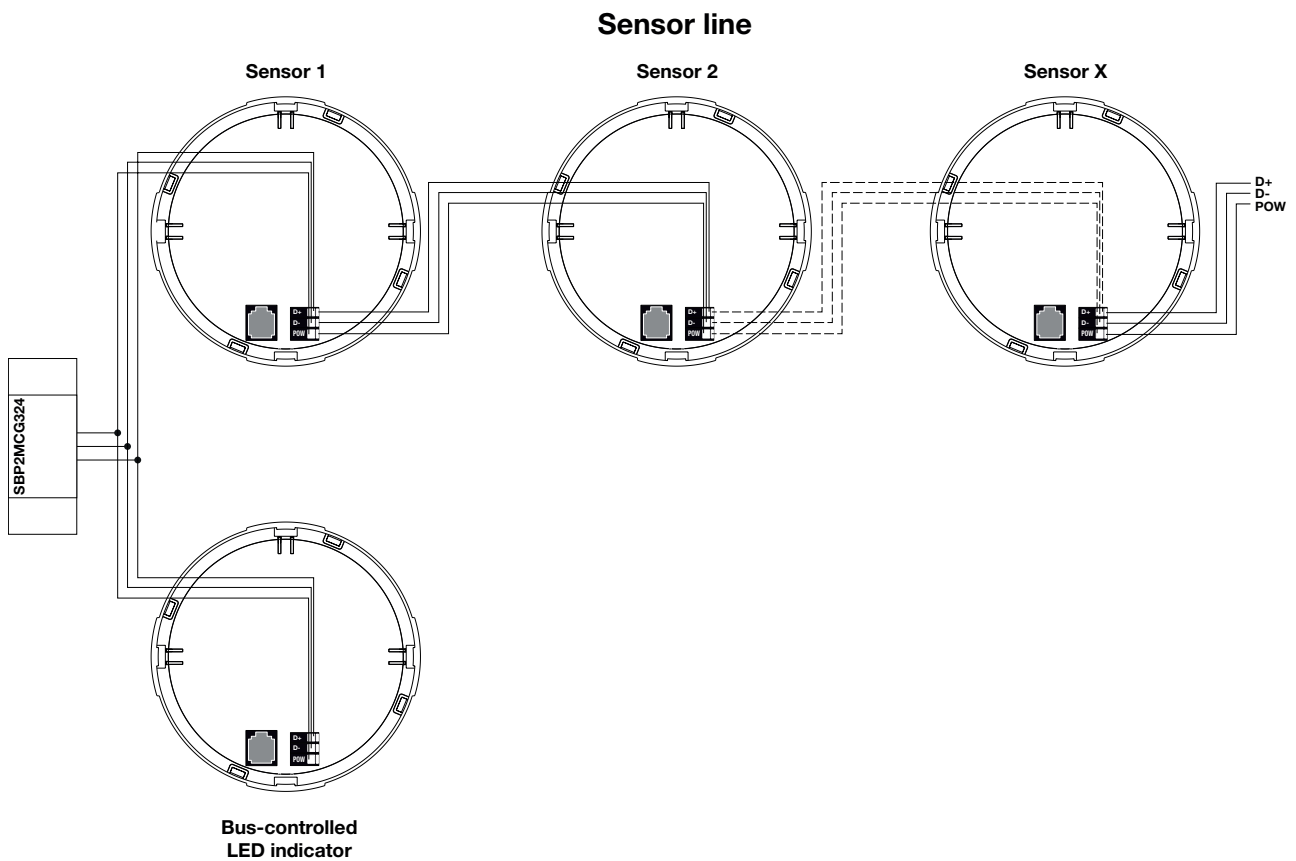
Note: The wiring of the bases must always be made with a 1.5 mm² single-core wire or a stranded wire with ferrules.

Multiple sensors to one indicator

Compatibility and conformity

▶ **Approvals**

CE-marking	$C\epsilon$
Approvals	c(UL)us

UL notes
- This product is intended to be supplied by a Listed Information Technology Equipment AC Adaptor marked NEC Class 2 or LPS
- Max ambient temperature: 50°C (122°F)

Configuration

When indicator and base are mounted and connected to the Dupline® 3-wire network with power and communication, they are ready for configuration.

The central SBP2WEB24 PC based configuration tool automatically scans the network and finds all the sensors, indicators and other connected devices.

Once this has been done, the user assigns addresses to the sensors and indicators connected.

Please refer to the design- and installation manual for further details about configuration.

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Mode of operation

The SBPILED has built in high-bright RGB LEDs with up to 8 different colours for indication of parking space status (vacant, occupied, booked, disabled..).
The LED indication is visible in a 360° visual angle.
In order to achieve maximum visibility, the indicator should be mounted outside the parking space in the driving lane as shown below.
All programming regarding the indicator is firmly described in SBP2WEB24 software manual. See link: http://productselection.net/searchproduct.php
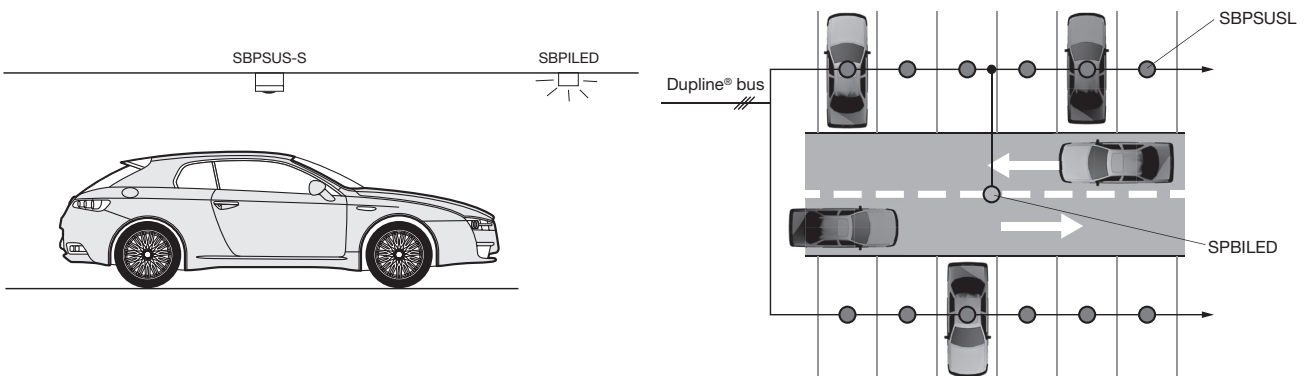

Mounting

The LED indicator must be mounted into either base holder A (cable tray or conduit) or base holder B (ceiling mount).
Place the LED indicator with the vertical mark pointing at the tip of the triangle on the base.
Turn the LED indicator clockwise until the vertical mark is positioned at the rear end of the triangle.
The LED indicator is now fixed to the base.
Release the LED indicator by pressing a screwdriver in the vertical slot on the base and turn the LED indicator anti clockwise.
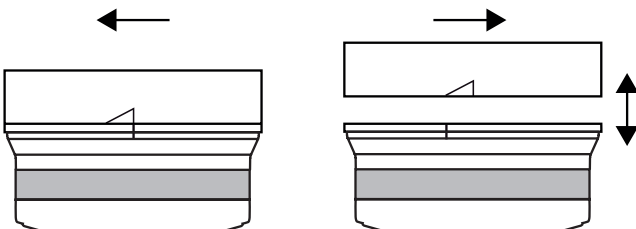
Be sure to have enough extra wire for the LED indicator, so it is possible to make maintenance on the LED indicator/base in the future.
Also place the wire correctly to avoid damage on the isolation of the cable. See picture.
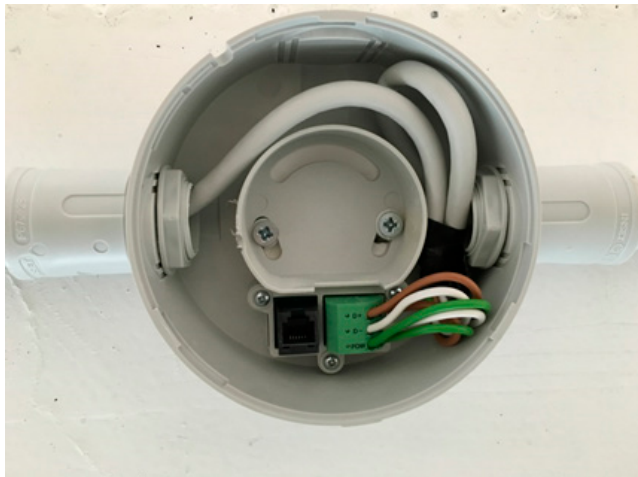
Place the wire around the inner part of the base to avoid damage of the isolation of the cable.
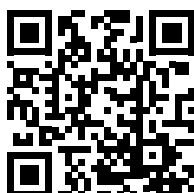
References

▶ **Product selection key**

☞ **SBPILED**

Code	Option	Description
SB	-	Smart Building
P	-	Parking
I	-	Indicator
LED	-	High-bright LED

Note: The indicator is delivered without a base. Please order base A or B separately.

Mouser Electronics

Authorized Distributor

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