

# BS100 SD LED

Industrial LED luminaire

Autodimmer

Professional fixture with high luminous flux and anti-glare system. It's able to work in emergency mode if equipped with Plug&Light LED Inverter or addressable logica LED inverter.

Smart Driver System for the highest level of flexibility of use due to the various additional modules. The Autodimmer Sensor is supplied as standard in the base product. The self-extinguishing polycarbonate screen is stabilized to UV rays. The screen has a micro-structured anti-glare surface particularly designed to spread the LED light in the best way.

The device is strong and long-lasting with an age-resistant expanded polyurethane seal and concealed closure hooks made from polyester based technopolymer.



## GENERAL CHARACTERISTICS

**Equivalent Power\*** 1x 18, 2x 18, 1x 36, 2x 36, 1x 58, 2x 58, 2x 80 W

**Power supply SD Version:**

93–265 V<sub>AC</sub> 50/60 Hz

176–250 V<sub>DC</sub>

**ED Version:** 230 V<sub>AC</sub> ±10 % 50 Hz

**Standard** EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), EN 62471 (Photobiological hazard)

**Protection grade** IP65

**Working temp. SD Version:** -20 ÷ +50 °C (\*\*\*)

**ED Version:** -20 ÷ +40 °C

**Mounting** ceiling, suspension, busbar trunking

**Housing** Polycarbonate, RAL 7035 light grey

**Optic** white reflective powder coated steel

**Louvre** Micro-structured finished high transmission polycarbonate

**Driver SD Version:**

SELV electronic SD (cos φ ≥ 0.96) with intelligent dimming

**ED Version:**

SELV electronic ED (cos φ ≥ 0.95)

**MTBF Control gear\*\*** 80 000 h

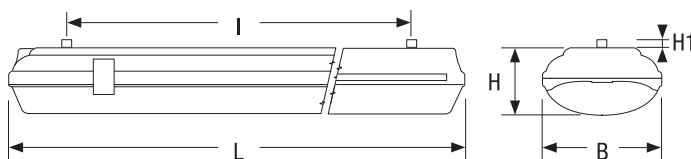
**Luminous flux maintenance\*\*** >60 000 h (L80B20)

**Colour deviation** 3 SDCM

\* Equivalent power for comparison with florescent tube device

\*\* At environmental reference temperature of 25 °C

\*\*\* At highest working temperature thermal protection may reduce the output power.



Power * W	L	• Dimensions (mm) •			I	Weight max kg
		B	H	H1		
1x 18, 2x 18	671	170	95	10	475	1.4
1x 36, 2x 36	1 280	170	95	10	660	2.3
1x 58, 2x 58	1 581	170	95	10	900	2.0
2x 80	1 581	170	95	10	900	2.7

## Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the BS100 SD LED:

**Dimming SD** 50 %  
**Device duration** +40 %  
**Luminous efficiency** +15 %

## Accessories SD

supplied

Order code	Description
15039	OPTICOM PHOTOSENSOR

## Accessories

to be ordered separately

Order code	Description
3905	PROTECTIVE GRID 18W
8066	PROTECTIVE GRID 36W
8067	PROTECTIVE GRID 58W/80W
3504	BRACKET WALL INSTALLATIONS
3505	HOOKS STAINLESS STEEL INOX 18W (4 pcs)
3506	HOOKS STAINLESS STEEL INOX 36W (8 pcs)
3507	HOOKS STAINLESS STEEL INOX 58W/80W (10 pcs)
8010	KIT WIRING THROUGH 58W/80W
8012	KIT WIRING THROUGH 36W

## Building automation SD

to be ordered separately

Order code	Description
20102	BUILDING AUTOMATION CENTRAL UNIT
20124	BUILDING AUTOMATION CENTRAL UNIT WIFI
20104	2 INPUT INTERFACE – RADIO TRANSMITTER
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE

**DOMOTIC RADIO MODULE**

**1÷10V MODULE**

**DALI MODULE**

**PLUG&LIGHT MODULE**

OPTIONAL MODULES TO EXTEND BEGHELLI SD TO RADIO CONTROL OR DALI / 1-10V SYSTEMS AND EMERGENCY



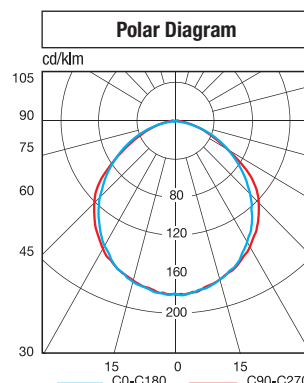
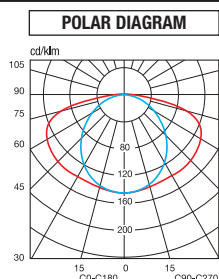
**INTELLIGENT PHOTOSENSOR**

1. **Autodimmer Natural Light**
2. **Autodimmer Dynamic Light**
3. **opticom TECHNOLOGY Smartphone Interface to control and set up system**

**SPECIAL PARKING VERSION**



**236PSD** BS100 LED PARKING 2x36 W



**EMERGENCY WITH LED INVERTER**

TR AT LG LGFM

- 19358** INVERTER PLUG&LIGHT LED SE/SA 1H 20-60V *to be ordered separately*
- 19359** INVERTER PLUG&LIGHT LED SE/SA 3H 20-60V *to be ordered separately*
- 19355** INVERTER LED AT/LG 6W 55V 123H *to be ordered separately*
- 19372** INVERTER LED AT/LG 8W 55V 123H *to be ordered separately*
- 19390** INVERTER EXT AT/LG 15W 55V 0,75-1-2-3-8H LTO *to be ordered separately*
- 19391** INVERTER EXT AT/LG 15W 55V 0,75-1-2-3-8H LiFe *to be ordered separately*

LG Inverters can be transformed in LGFM with the accessory code 19375

**SPECIAL VARIANTS: COLOUR TEMPERATURE ON REQUEST, COLOUR RENDERING ≥90, FOOD APPLICATIONS VERSION**  
Contact the Beghelli sales network

**BS100 LED PARKING**

SmartDriver **SD**

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption max W	N°LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	lm/W	Energy Class	Packaging
2x 36	<b>236PSD</b>	BS100 LED PARKING 2X36 SD 4000K	48	4 000	>80	52	144	7 750	5 500	106	A++	1

**BS100 LED**

SmartDriver **SD**

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption max W	N°LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	lm/W	Energy Class	Packaging
1x 18	<b>118SD</b>	BS100 LED 1X18 SD 4000K	9	4 000	>80	11	72	1 900	1 525	133	A++	1
2x 18	<b>218SD</b>	BS100 LED 2X18 SD 4000K	19	4 000	>80	22	72	3 300	2 750	127	A++	1
1x 36	<b>136SD</b>	BS100 LED 1X36 SD 4000K	21	4 000	>80	23	144	4 000	3 000	133	A++	1
2x 36	<b>236SD</b>	BS100 LED 2X36 SD 4000K	42	4 000	>80	46	144	7 000	5 500	121	A++	1
1x 58	<b>158SD</b>	BS100 LED 1X58 SD 4000K	29	4 000	>80	32	180	5 000	4 100	129	A++	1
2x 58	<b>258SD</b>	BS100 LED 2X58 SD 4000K	59	4 000	>80	64 (56***)	180	9 250	7 500	117	A++	1
2x 80	<b>280SD</b>	BS100 LED 2X80 SD 4000K	68	4 000	>80	74 (56***)	180	11 000	8 500	116	A++	1

**BS100 LED**

EcoDriver **ED**

Power* W	Order code	Description	LED Power W	Colour Temp. K	Colour rendering	Power consumption max W	N°LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	lm/W	Energy Class	Packaging
2x 18	<b>218ED</b>	BS100 LED 2X18 ED 4000K	18	4 000	>80	20	72	2 900	2 600	132	A++	1
2x 36	<b>236ED</b>	BS100 LED 2X36 ED 4000K	36	4 000	>80	40	144	5 800	5 200	132	A++	1
2x 58	<b>258ED</b>	BS100 LED 2X58 ED 4000K	47	4 000	>80	51	192	7 700	6 800	132	A++	1

\*\*\* The power consumption has an auto derating to the power indicated in parenthesis if the product is powered by voltage less than 110 V<sub>AC</sub>.