

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: Universal Multi Voltage
93–265 V_{AC} 50/60 Hz
176–250 V_{DC}

ED Version: 230 V_{AC} ±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)

MTFB Control gear** 80 000 h

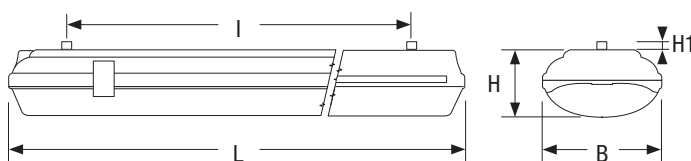
Luminous flux maintenance** >60 000 h (L80B20)

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 PHOTSENSOR

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 STAINLESS STEEL HOOKS INOX 18W (4pcs)

3506 STAINLESS STEEL HOOKS INOX 36W (8pcs)

3507 STAINLESS STEEL HOOKS INOX 58W/80W (10pcs)

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

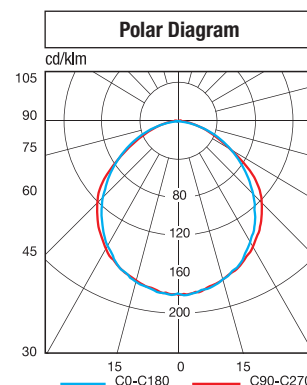
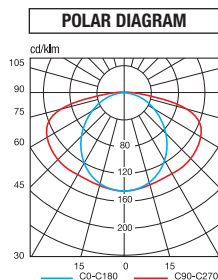
1. **Autodimmer Natural Light**
2. **Autodimmer Dynamic Light**
3. **opticom TECHNOLOGY Smartphone Interface to control and set up system**



SPECIAL PARKING VERSION



236PSD BS100 LED PARKING 2x36 W



EMERGENCY WITH LED INVERTER

TR AT LG LGFM

INVERTER	Code	Description	Notes
	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
	19364	INV LED IP65 AT/LG 123H (addressable)	to be ordered separately
	19365	INV LED IP65 LGFM 123H (addressable)	to be ordered separately

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	236PSD	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	118SD	BS100 LED 1X18 SD 4000K	9	4 000	>80	11	72	1 900	1 525	133	A++	1
2x 18	218SD	BS100 LED 2X18 SD 4000K	19	4 000	>80	22	72	3 300	2 750	127	A++	1
1x 36	136SD	BS100 LED 1X36 SD 4000K	21	4 000	>80	23	144	4 000	3 000	133	A++	1
2x 36	236SD	BS100 LED 2X36 SD 4000K	42	4 000	>80	46	144	7 000	5 500	121	A++	1
1x 58	158SD	BS100 LED 1X58 SD 4000K	29	4 000	>80	32	180	5 000	4 100	129	A++	1
2x 58	258SD	BS100 LED 2X58 SD 4000K	59	4 000	>80	64 (56***)	180	9 250	7 500	117	A++	1
2x 80	280SD	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	218ED	BS100 LED 2X18 ED 4000K	18	4 000	>80	20	72	2 900	2 600	132	A++	1
2x 36	236ED	BS100 LED 2X36 ED 4000K	36	4 000	>80	40	144	5 800	5 200	132	A++	1
2x 58	258ED	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_{AC}.