

Linear Luminaire BS ***** (Sheet Steel Enclosure)

– Technical Specifications:

Linear Luminaire BS *****

Operating voltage AC : 230 V (+20/-30%)

Frequency : 0-50/60 Hz


Type of lamp : L fluorescent lamp (bar shape) or compact fluorescent lamp (U shape)

Lamp holder : Holder for bi-pin socket G13 or for four-pin socket 2G11

Luminaire Type	Lamp Wattage	Rated Current	Approx. Length mm *	Approx. Width mm	Approx. Height mm
BS 51....	1 x 18 W (G13)	0.08 A	902/935 (m. BS 59**)	160	125
BS 15....	2 x 18 W (G13)	0.16 A	902/935 (m. BS 59**)	160	125
BS 52....	2 x 18 W (G13)	0.16 A	728/761	183	130
BS 53....	3 x 18 W (G13)	0.24 A	728/761	183	130
BS 35....	4 x 18 W (G13)	0.31 A	728/761	183	130
BS 54....	1 x 36 W (G13)	0.16 A	1492/1525 (m. BS 59**)	160	125
BS 45....	2 x 36 W (G13)	0.31 A	1492/1525 (m. BS 59**)	160	125
BS 55....	2 x 36 W (G13)	0.31 A	1333/1362	183	130
BS 56....	3 x 36 W (G13)	0.47 A	1333/1362	183	130
BS 65....	4 x 36 W (G13)	0.63 A	1333/1362	183	130
BS 92....	2 x 58 W (G13)	0.50 A	1633/1662	183	130
BS 93....	3 x 58 W (G13)	0.76 A	1633/1662	183	130
BS 94....	4 x 58 W (G13)	1.01 A	1633/1662	183	130
BS 31....	1 x 36/40 W (2G11)	0.16/0.17 A	902/935	160	125
BS 32....	1 x 55 W (2G11)	0.24 A	902/935	160	125
BS 34....	4 x 18 W (2G11)	0.31 A	728/761	183	130
BS 36....	3 x 36/40 W (2G11)	0.47/0.52 A	728/761	183	130
BS 37....	3 x 55 W (2G11)	0.72 A	728/761	183	130
BS 38....	2 x 80 W (2G11)	0.72 A	728/761	183	130
BS 39....	2 x 36/40 W (2G11)	0.31/0.35 A	1492/1525	160	125
BS 40....	2 x 55 W (2G11)	0.48 A	1492/1525	160	125
BS 42....	4 x 36/40 W (2G11)	0.63/0.70 A	1333/1362	183	130
BS 43....	4 x 55 W (2G11)	0.96 A	1333/1362	183	130
BS 44....	4 x 80 W (2G11)	1.44 A	1333/1362	183	130
BS 46....	6 x 36/40 W (2G11)	0.94/1.04 A	1633/1662	183	130
BS 47....	6 x 55 W (2G11)	1.44 A	1633/1662	183	130
BS 48....	4 x 80 W (2G11)	1.44 A	1633/1662	183	130

* without/with plug connectors

** test switch with line end unit

- **Type of explosion protection:**  I M2 Ex deq I -20 °C ≤ T_a ≤ +40/50 °C IBExU 97 ATEX 1035
2. + 5. Addition
- **Degree of enclosure protection:** IP 66

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Operating Instructions

– **Installation and connection**

In the best case scenario, the linear luminaires of type BS ***** may be installed in any position – details see marking of the luminaires. Installation material is provided with the delivery of the luminaires.

The terminal compartment is located beneath the reflector. There are 2 terminal boards with through wiring, which also could be replaced by a test switch with line end unit.

The mains power supply line is fed through a cable entry into the enclosure and is connected to the relevant terminal board according to the enclosed terminal diagram. For external wiring, exclusively cables with a minimum temperature stability of 90 °C have to be used. Coming from the other terminal board and going through the second cable entry, the wiring may be led out for connection of additional luminaires or other electrical equipment. One terminal of each terminal board serves as connector for protective ground conductors.

In luminaire versions with integrated plug and socket connectors the internal wiring is already installed by the manufacturer. External wiring is provided by means of cables also equipped with plug and socket connectors.

ATTENTION: In this case, always connect the plug side of the luminaire first – thereafter the socket side!

– **Starting operation**

Before starting operation of luminaires with cable entries care must be taken that the terminals of the connecting cables are properly tightened and the enclosure is tightly closed (check cover and attached components).

– **Repair**

Defect illuminants may be exchanged by the operator himself, under the condition that the installation instructions are regarded. For this purpose the central locking system has to be unlocked using an Allen key 10 mm (across flats) and the translucent cover has to be opened up. [To open the cover only for types BS 51, 15, 54 and 45 a mounting frame has to be unscrewed. – **Loosen and tighten the screws crosswise!**] After having ensured that the lamp holders are de-energized, the illuminant and the lamp holder are pulled apart in axial direction on one side and then the illuminant is removed from the other lamp holder. Inserting a new lamp has to be performed in reverse order. During the installation attention has to be paid to the firm fit of the lamp holders. Lamp holders with defect contact elements have to be exchanged immediately.

Repairs of explosion-proof luminaires may only be carried out by authorized personnel and by using original spare parts.

– **Note**

- **After opening a luminaire that is still connected to the mains power supply the micro switch must not be operated!**

- **When installing vertically the heads of the reflector hinges have to face upwards!**

- **Avoid electrostatic charge! Cleaning of luminaires only with damp cloth!**

– Only components being certified for potentially explosive atmospheres - group I and/or II – (cable entries, plug-in connectors, line end units etc.) may be attached to the luminaires. The degree of enclosure protection IP 66 is only ensured by proper application of tested and certified explosion-proof cable entries, plug-in connectors and other certified attachments. The instructions and conditions stated in the EC type examination certificates for Ex components being installed in or attached to the luminaires have to be regarded.

– **ATTENTION !!!**

Before starting operation store the luminaires in a dry place, protect against moisture!