

## 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 80....	2 x 18 W (G13)	0.16 A	728/761	183	130
BS 81....	3 x 18 W (G13)	0.24 A	728/761	183	130
BS 82....	4 x 18 W (G13)	0.31 A	728/761	183	130
BS 83....	2 x 36 W (G13)	0.31 A	1333/1362	183	130
BS 84....	3 x 36 W (G13)	0.47 A	1333/1362	183	130
BS 85....	4 x 36 W (G13)	0.63 A	1333/1362	183	130
BS 86....	2 x 58 W (G13)	0.50 A	1633/1662	183	130
BS 87....	3 x 58 W (G13)	0.76 A	1633/1662	183	130
BS 88....	4 x 58 W (G13)	1.01 A	1633/1662	183	130
BS 70....	4 x 18 W (2G11)	0.31 A	728/761	183	130
BS 71....	3 x 36/40 W (2G11)	0.47/0.52 A	728/761	183	130
BS 72....	3 x 55 W (2G11)	0.72 A	728/761	183	130
BS 73....	2 x 80 W (2G11)	0.72 A	728/761	183	130
BS 74....	4 x 36/40 W (2G11)	0.63/0.70 A	1333/1362	183	130
BS 75....	4 x 55 W (2G11)	0.96 A	1333/1362	183	130
BS 76....	4 x 80 W (2G11)	1.44 A	1333/1362	183	130
BS 77....	6 x 36/40 W (2G11)	0.94/1.04 A	1633/1662	183	130
BS 78....	6 x 55 W (2G11)	1.44 A	1633/1662	183	130
BS 79....	4 x 80 W (2G11)	1.44 A	1633/1662	183	130

\* without/with plug connectors

### – Type of explosion protection:

⊕ II 2G Ex deq IIC T4/T3

-20 °C ≤ T<sub>a</sub> ≤ +40/50 °C

IBExU 97 ATEX 1035

⊕ II 2D Ex tD A21 IP66 T 80 °C

2. + 5. Addition

### – Degree of enclosure protection:

IP 66

### – 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

# Operating Instructions

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. 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.

– The specifications for the dust explosion protection given in EN 61241-14 have to be kept at the installation and maintenance of the luminaires. Particularly the ignition temperature of the dust/air-mixture resp. the smoulder temperature of the dust considering the safety factor fixed in EN 61241-14 must be higher than the maximum surface temperature of the luminaires.

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– **ATTENTION !!!**

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