

LED Emitter BS 62511*

Technical Specifications:

BS 625 11*	In Ex ib I X
Ui:	13.2 V
Ii:	2.2 A
Li:	corresponds to inductivity of connecting lead (maximum value is defined by the power source)
Ci:	negligible

Dimensions and Weights:

BS 62511*

Length approx.	62 mm
Diameter approx.	115 mm
Weight approx.	1.2 kg (light metal enclosure)

Type of Explosion Protection:

EN 60 079-0 : 2006
 EN 60 079-11 : 2007
 EN 61 241-0 : 2006
 EN 61 241-1 : 2004
 Directive 94/9/EC



I M2 Ex ib I X

- 20 °C ≤ T_{amb} ≤ + 40 °C

Degree of enclosure protection: EN 60529: minimum IP 66

EC Type Examination Certificate: I BExU 08 ATEX 1121 X and 2nd addition



Operating Instructions

Installation and Operation of Type BS 625 11* I M2 Ex ib I X:

The LED emitter type BS 62511* is designed for use in firedamp hazardous areas.

Installation in any position.

Depending on the type of explosion hazardous area different certified power supplies may be used. The intrinsically safe direct current is carried from an external Ex i power supply (13.2 V DC, up to 2.2 A; e. g. make BöSha, IBEExU 99 ATEX 1016 X [I M2]) to the Ex e terminals installed inside the enclosure via an Ex e cable entry or an Ex i plug and socket connector.

The maximum lead length between power supply and LED emitter – in group I M2 – depends on the inductivity of the lead and the maximum value of the power source. The following lead diameters and types may be used: 4 x 1.5 mm², LiYCY/CY, YSLY/EB-02 or OZ-BL-CY or comparable leads.

You find the connecting compartment inside the emitter beneath the cooling element of the constant current sources. There you find a 2-pole terminal board for wiring. The supply line is carried into the enclosure via a cable entry and is connected to the 2-pole terminal board according to the enclosed connecting diagram. Optionally, a piece of supply line is already installed by the manufacturer and provided with an ODU plug and socket connector. Alternatively, an Ex i plug-in coupling may be screwed into the enclosure.

In case the enclosure has no metallic connection the potential equalisation can be connected on the rear side of the emitter.

The version with aluminium enclosure is plastic powder coated. It has to be paid attention that this coating stays undamaged. In case of coating damage the equipment has to be removed from the firedamp hazardous area.

The user must not carry out any adjustment changes and/or repairs of the equipment and the leads!

Defect equipment may be repaired by the manufacturer only!