

LED Emitter BS 62521*

Technical Specifications:

BS 625 21*	4x each	In Ex ib IIC
Ui:		12.8 V
Ii:		350 mA
Pi:		4.5 W
Li:		max. 24 µH (corresponds to inductivity of connecting lead)
Ci:		negligible

Dimensions and Weights:

BS 62521*

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

 II 2G Ex ib IIC T4

- 20 °C ≤ T_{amb} ≤ + 40 °C

Degree of enclosure protection: EN 60529: minimum IP 66

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



Operating Instructions

Installation and Operation of Type BS 625 21* II 2G Ex ib IIC T4:

The LED emitter type BS 62521* is designed for use in explosion 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 fourfold Ex i power supply (12.8 V DC, 4 x 350 mA; e. g. make BöSha, IBExU 99 ATEX 1016 X [II 2G]) 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 II 2G – may not exceed 50 m – having a maximum cable inductance of 24 μ H. The following lead diameters and types may be used: 5 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.

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 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!