

BA390 panel lamps provide reliable cost effective visual status indication in all hazardous gas and dust areas. Each BA390 lamp produces a bright, uniform output with a typical life greater than ten years. All models contain a 20mA current regulator therefore they consume a constant current and hence have a constant brilliance independent of supply voltage. Protection against excess voltage and reverse connection is included in each lamp.

International intrinsic safety certification allows BA390 LED panel lamps to be installed in all gas and dust hazardous areas. Two lamps may be powered from a single IIC intrinsically safe galvanic isolator. FM gas approval allows BA390 lamps to be installed in the USA.

Five well defined lamp colours - red, amber, green, blue and white allow lamps to be selected to comply with the indicator light colours recommended by IEC 73. When not powered, the front of panel coloured diffuser enables the lamp colour to be easily identified.

IP66 sealing of the lamp front and the joint between the lamp and the panel allow the BA390 to be installed in areas that will be hosed, washed or splashed. When rear of panel environmental protection is also required, the optional BA599 rear sealing kit provides IP66

protection and includes a cable gland to seal and support the supply cable.

Mounting is via a single industry standard 22.5mm diameter hole. The lamp housing, fixing nut and terminals have a maximum diameter of 30mm which permits a very high packing density on the panel.

To aid identification from the rear of the panel, the model number and suffix which identifies the colour are marked on the lamp body close to the terminals

Reliability is ensured by an ISO9001 approved quality control system supported by a three year guarantee.

For low current applications complementary BA390S panel lamps, which have the same features and certifications as BA390 lamps, but without a current regulator, can be used with currents as low as 4mA. These lamps are ideal for use with low current sources such as fieldbus multiple output modules. See the BA390S datasheet for details.

For safe area installations, please refer to the BA590 datasheet which describes a range of non certified 24V dc powered panel lamps.

Application Guide AG390 includes additional information about how to use both BA390 and BA390S lamps.



BA390 LED Panel Lamp

Intrinsically safe for use in all gas and dust hazardous areas

- Intrinsically safe
- Red, amber, green, blue & white models.
- 20mA constant current & brilliance.
- IP66 front
- IIC isolator will power two lamps.
- 3 year guarantee
 - www.beka.co.uk/ba390



SPECIFICATION

Power supply

Lamp colour

Amber

Green Blue

White

Red

Voltage Operating Reverse 60V max Current

Output

Typical illuminance at 150mm 160 lux 230 lux 230 lux 530 lux 270 lux

30V

159mA

0.683W

1.2W

30V

159mA

0.683W

1.2W

14 to 30V dc

18 to 22mA

Intrinsic Safety

International IECEx Code gas dust

> Input safety parameters Ui Ii Pi gas Pi dust

Certification number

IECEx ITS 08.0030X

Group II Category 1G

Ex ia IIIC T135°C Da

 $-20^{\circ}C \le Ta \le +60^{\circ}C$

Ex ia IIC T4 Ga Group II Category 1D

Ex ia IIC T4 Ga

Ex ia IIIC T135°C Da

 $-20^{\circ}C \le Ta \le +60^{\circ}C$

Europe ATEX & UK UKCA

Code gas

dust

Input safety parameters Ui Ii Pi gas Pi dust

Certificate numbers

USA FM only gas certification Standard

Code

File

Standard Code

File

India CCOE/PESO

Environmental

Operating temperature Storage temperature Relative humidity Operating life Enclosure Front Rear

EMC

Mechanical

Terminals Diffuser material Body material Weight ITS13ATEX27822X & ITS21UKEX0093X

3610 Entity intrinsic safety CL I: Div 1: GP A, B, C & D: T4 @ 60°C AEx ia IIC T4 Ta = 60°C 3022662

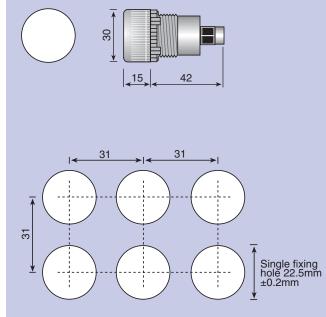
3611 Nonincendive CL I: Div 2: GP A, B, C & D: T4 @ 60°C 3022662

As ATEX - see certificate

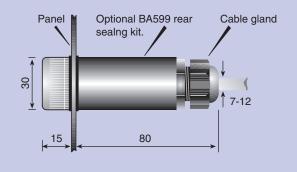
-20 to 60°C -40 to 85°C 5 to 95% non condensing 100,000 hours typical IP66 IP20 - see accessories for BA599 optional IP66 rear sealing kit. Complies with EU & UK EMC Directives

Screw clamp for 1.5mm² Polycarbonate Nylon 6 18g

DIMENSIONS (mm)



Fixing centres for maximum packing density. Special tool may be required to tighten fixing nuts when minimum spacing is used.



TERMINAL CONNECTIONS



Accessories

Dust certifcation Rear sealing kit IECEx and ATEX dust certification BA599 provides IP66 protection for terminals and rear of the lamp. Supplied with gland for 7 to 12mm diameter cable.

HOW TO ORDER

Lamp colour Red Amber Green Blue White

Accessories Rear sealing kit Please specify BA390R BA390A BA390G BA390B BA390W

Please specify if required BA599