

Description BA390X

The BA390X is an intrinsically safe panel mounting lamp that has IECEx, ATEX UKEX and FM certification. Each lamp has a constant brilliance and consumes a constant 20mA. No external current limiting resistor is required.

Description BA390SX

The BA390SX is intended for low current applications. It is identical to the BA390X but does not include an internal 20mA current sink, therefore the current must be defined by an external resistor or a current regulator.

Models

Both the BA390X and BA390SX are available in five different colours identified by the 'X' suffix

R Red; G Green; A Amber; B Blue; W White.

Intrinsic safety

IECEx, ATEX & UKEX gas and dust certification.

Code

II 1 G Ex ia IIC T4 Ga
II 1 D Ex ia IIIC T135°C Da
 $-20^{\circ}\text{C} \leq T_a \leq 60^{\circ}\text{C}$

Parameters

$U_i = 30\text{V}$
 $I_i = 159\text{mA}$
 $P_i = 1.2\text{W}$ for gas
 0.683W for dust
 $C_i = 0$
 $L_i = 0$

Repair

No attempt should be made to repair a faulty lamp, it should be returned to BEKA associates or to your local agent.

Disposal

Lamps should be correctly disposed of, not in household rubbish.

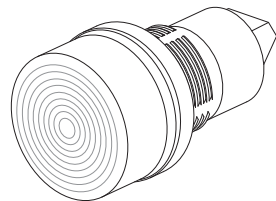
Special conditions for safe use

To prevent the accumulation of an electrostatic charge. Each lamp carries the following warning:

Potential Electrostatic Hazard
Clean with Damp Cloth

Essential Health & Safety Requirements for BA390X & BA390SX Intrinsically Safe LED Panel Lamps

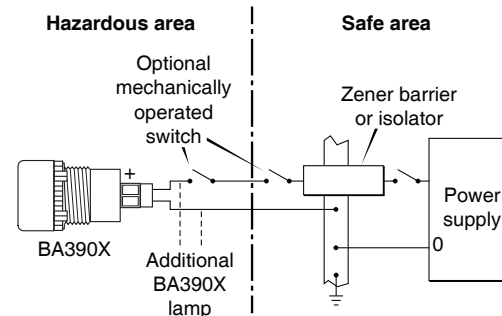
UK



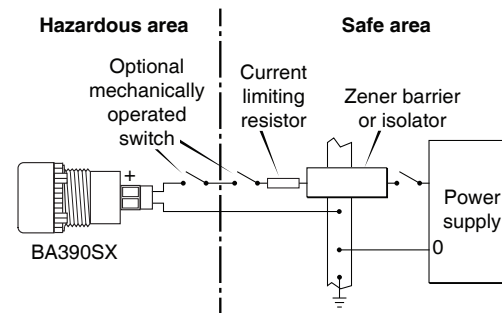
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Typical BA390X lamp circuit



Typical BA390SX lamp circuit

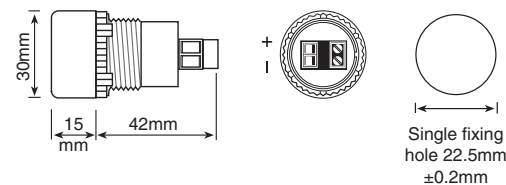


Installation

To provide an IP66 seal between the lamp and the mounting panel, supplied gasket should be fitted between lamp body and the panel.

Securing nut should be tightened between 120 & 140 cNm (10.6 & 12.4inlb)

The rear of the lamp body has IP20 protection that may be increased to IP66 using the optional BA599 rear sealing assembly.



Lamp dimensions

EU Declaration of Conformity

This declaration of conformity for electrical apparatus BA390 & BA390S is issued under the sole responsibility of the manufacturer.

Description

BA390 & BA390S are panel mounting, intrinsically safe LED Cluster Lamps

Manufactured by

BEKA associates Ltd, Old Charlton Road, Hitchin, Herts. UK. SG5 2DA

Council Directives this equipment complies with: 2014/34/EU (ATEX Directive)

Relating to equipment and protective systems intended for use in potentially explosive atmospheres.

Provisions of the Directive fulfilled by the equipment:

Group II Category 1G
Ex ia IIC T4 Ga $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
Group II Category 1D
Ex ia IIIC T135°C Da $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

Notified Body for EU-Type examination and production

INTERTEK ITALIA SPA 2575
Via Guido Miglioli, 2/A 20063
Cernusco sul Naviglio (MI) Italy

EU-Type Examination Certificate

ITS13ATEX27822X issue 1 dated 12/06/2018

Standards used:

EN 60079-0:2012, EN 60079-11:2012
Compliant with EN IEC 60079-0:2018

2014/30/EU (EMC Directive)

Standards used:

EN 61326-1:2021

2011/65/EU (RoHS Directive) relating to hazardous substances in electronic and electrical equipment.

2015/863/EU additional substances added by amending Annex II to Directive 2011/65/EU as regards the list of restricted substances.

mark first affixed in 2001

Authorised Signatory: Issue 14 19th Jan 2023

Olivier Lebreton CEng MIET
Managing Director



Manuals, certificates and datasheets can be downloaded from <https://www.beka.co.uk/ba390>