The BA386 is an intrinsically safe field mounting beacon which produces a bright flashing warning signal in a hazardous area. This beacon is significantly less expensive than the traditional Xenon devices, although it has a similar light output, flashes more frequently and is available in five different colours.

The beacon may be used alone, or in conjunction with a BEKA intrinsically safe sounder. The high efficiency of the BA386 enables the beacon and the sounder to be powered from a common Zener barrier or galvanic isolator. In combined systems this eliminates one barrier or isolator and associated wiring, thus simplifying the installation and further reducing cost.

Alarm accept is another unique feature of the BA386 which in combined systems enables the sounder to be silenced for a pre-set time leaving the beacon flashing twice per second. The alarm is accepted by momentarily closing a pair of external contacts, such as a push-button which may be located in the hazardous or the safe area. The sounder silence time may be pre-set for between 1 and 30 minutes.

Main application of the BA386 beacon is to provide a visible warning in a noisy hazardous process area where a sounder is not easily identified. The beacon may be powered from a wide variety of Zener barriers or galvanic isolators and may be controlled by any contact or dc supply in the safe area. It may also be switched in the hazardous area by an intrinsically safe relay or any equipment with an intrinsically safe output such as the alarm output of a BEKA indicator or totaliser.

When the BA386 beacon is used in conjunction with a BEKA intrinsically safe sounder it forms a combined audio visual alarm with integral sounder silence facilities. It is ideal where an operator needs to be advised that an alarm condition has occurred, but wishes to silence the intrusive audible warning. If the alarm condition is not corrected during the silence period, the sounder will be re-activated when the pre-set silence time has expired.

IECEx and ATEX certification permits installation in Zones 0, 1 or 2. For applications in the USA, the BA386 also has FM intrinsic safety and nonincendive approval.

The flame retardant enclosure provides IP66 protection and is suitable for external mounting in sheltered locations. Cable entry is via 20mm untapped holes in the two opposite sides of the enclosure and there is a ‘knock-out’ in the rear for an additional entry.

When used with a BEKA BR385 sounder, the beacon may be mounted onto the base of the sounder to form a combined assembly, or may be mounted separately.

A complementary intrinsically safe steady state beacon with five different colour output options is also available. These BA386S beacons provide a continuous status indication when a flashing warning is not required.
SPECIFICATION

Power supply
Voltage
10 to 28V (across terminals 1 & 2)
Not damaged by temporary connection to the supply without a Zener barrier or galvanic isolator in circuit.

Current
When powered from 24V supply via 28V 93mA Zener barrier.
25mA typical

Output
Two 20mm dia. holes for gland or conduit entries in opposite sides of the back-box

TERMINAL CONNECTIONS

How to order
1. Specify Colour: BA386R (Red), BA386A (Amber), BA386G (Green), BA386B (Blue), BA386W (White)
2. Specify if required: Tag strip, Combining kit

Intrinsic safety
Europe ATEX
Code: Group II Category 1G
Ex ia IIC T4 Ga
Cert. No.: ITS02ATEX2006X

International IECEx
Code: Ex ia IIC T4 Ga
Cert. No.: IECEx IIS17.0052X

Installation
May be powered from any certified Zener barrier or galvanic isolator whose output parameters do not exceed:

<table>
<thead>
<tr>
<th></th>
<th>Alone</th>
<th>With BR385</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uo</td>
<td>28Vdc</td>
<td>28Vdc</td>
</tr>
<tr>
<td>Io</td>
<td>110mA</td>
<td>93mA</td>
</tr>
<tr>
<td>Po</td>
<td>0.8W</td>
<td>0.66W</td>
</tr>
</tbody>
</table>

USA FM
Standard 3610 Entity
Code: CL.1, Div. 1, Gp. A, B, C and D
CL 1, Zone 0, AEx ia IIC T4
Temperature code: T4 at 60°C
File No: 3014996

Standard 3611 Nonincendive.
Code: CL.1, Div. 2, Gp. A, B, C and D
CL 1, Zone 2, IIC T4
Temperature code: T4 at 60°C
File No: 3014996

Environmental
Operating temp -20 to 60°C (certified for use at -40°C)
Storage temp -40 to 85°C
Humidity To 95% @ 40°C
Enclosure IP66

Mechanical
Terminals Removable with screw clamp for 0.5 to 1.5mm² cable.
Weight 0.4kg

Accessories
Tag strip Thermally printed tag strip secured by screws.
Combining kit Gasket and conduit fitting for mounting BA386 beacon onto bottom of BR385 sounder.

DIMENSIONS (mm)

TERMINAL CONNECTIONS

Silence time adjustable between 1 and 30 mins.
Accept switch Join terminals when a sounder is not connected

COMBINING KIT

Optional combining kit for joining BR385 sounder & BA386 beacon
Do not use fixing lugs when beacon is secured by a combining kit

HOW TO ORDER

Please specify

Colour
Red BA386R
Amber BA386A
Green BA386G
Blue BA386B
White BA386W

Accessories
Tag strip
Combining kit for joining beacon & BR385 sounder.

Legend
Combining kit

* Supplied free of charge on request when sounder and beacon are purchased at the same time