

## **Alarms BS 60\* \*\*\***

### Type of Explosion Protection:

BS 60* *(*):	 II 2G EEx de [ib] IIB T5
	 II 2G EEx deq [ib] IIB T5
BS 606 A:	 II 2G EEx d IIB T6

Degree of Enclosure Protection: ≥ IP 54 (BS 606 A: IP 68)

EC-Type Examination Certificate: IBEU 03 ATEX 1147 X



### Description

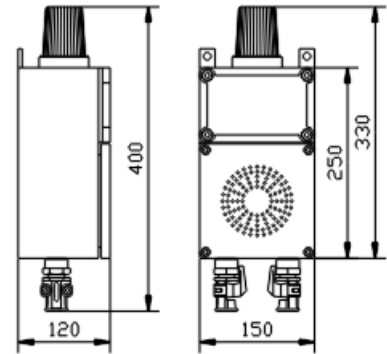
- Available as optical, acoustical and opto-acoustical and as flameproof and intrinsically safe version
- Available in different types of explosion protection (EEx d and EEx i)
- Optical part has a light frequency of 1 Hz with xenon photo-flash lamp
- Acoustical part adjustable
- Optical alarms: uv-resistant and impact proof – no protective cage required
- Harmonious light distribution
- Four different mains alternating current voltages available

### Combined Alarms „Flameproof“ (Opto-Acoustical) BS 601\*/ BS 602\*

- Four different mains alternating current voltages from 110 V to 1000 V, distinction by letter in type designation
- Electronical two-tone siren adjustable up to 107 dB
- Loudspeaker is IP 67
- Xenon photo-flash lamp of extremely high light intensity
- Difference between types BS 601 and BS 602 is the rating of photo-flashes of 5 Ws (BS 601) and 10 Ws (BS 602)
- Activation of all combined alarms by applying a control voltage of 5 V to 15 V (exception: type BS 601 E )
- Current consumption max. 10 mA
- On request, controlling can be achieved by a telephone ringing signal
- Special feature of type BS 601 E: activation of the alarm by applying a supply voltage of 12 V

**Electrical Data „Opto-Acoustical“ Alarms (Flameproof)**

Type	Input Voltage	Type of Current	Frequency	Nominal Current (approx.)	Nominal Rating
BS 601 A	230 V	AC	50/60 Hz	0.12 A	26 VA
BS 601 B	500 V	AC	50 Hz	0.055 A	28 VA
BS 601 C	1000 V	AC	50 Hz	0.028 A	28 VA
BS 601 D	110 V	AC	50/60 Hz	0.26 A	28 VA
BS 601 E	12 V	DC	0 Hz	1.0 A	12 W
BS 602 A	230 V	AC	50/60 Hz	0.15 A	33 VA
BS 602 B	500 V	AC	50 Hz	0.07 A	35 VA
BS 602 C	1000 V	AC	50 Hz	0.035 A	35 VA
BS 602 D	110 V	AC	50/60 Hz	0.32 A	35 VA


**Combined Alarms „Intrinsically Safe“ BS 601 \*I and 601 \*IS**

- Identical with afore mentioned types
- Type BS 601 \*I is put into operation by applying the supply voltage
- In type BS 601 \*IS the supply voltage can always stay connected and the alarm is activated by an external potential-free contact (e. g. switches, relay-contacts, optocouplers)

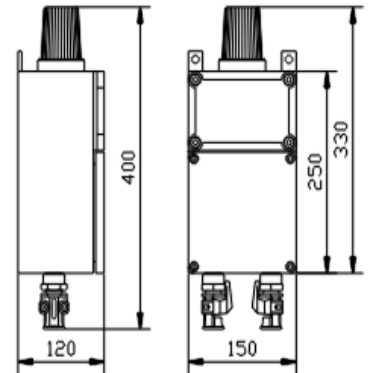
	<b>BS 601 EI and 601 EIS</b>	<b>BS 601 FI and BS 601 FIS</b>
<b>Input Voltage:</b>	12 V	24 V
<b>Rated Current:</b>	0.8 A	0.45 A
<b>Nominal Rating:</b>	9.6 W	10.8 W
<b>Nominal Rating of Photo-Flash Lamp:</b>	5 Ws	5 Ws
<b>Flash Frequency:</b>	1 Hz	1 Hz
<b>Loudness Level of Siren:</b>	approx. 97 dB	approx. 107 dB

### Optical Alarm „Flameproof“ BS 603 and BS 604

- Produce only optical signals
- Difference between types BS 603 and BS 604 by different ratings of the built-in photo-flash lamps
- Type BS 603 E is activated by applying the supply voltage

### Electrical Data Optical Alarms BS 603/ BS 604:

Type	Input Voltage	Type of Current	Frequency	Nominal Current (approx.)	Nominal Rating
BS 603 A	230 V	AC	50/60 Hz	0.055 A	12 VA
BS 603 B	500 V	AC	50 Hz	0.028 A	14 VA
BS 603 C	1000 V	AC	50 Hz	0.014 A	14 VA
BS 603 D	110 V	AC	50/60 Hz	0.13 A	14 VA
BS 603 E	12 V	DC	0 Hz	0.72 A	8,5 W
BS 604 A	230 V	AC	50/60 Hz	0.085 A	19 VA
BS 604 B	500 V	AC	50 Hz	0.042 A	21 VA
BS 604 C	1000 V	AC	50 Hz	0.021 A	21 VA
BS 604 D	110 V	AC	50/60 Hz	0.19 A	21 VA



### Optical Alarm „Intrinsically Safe“ BS 603\**I*/ BS 603\**IS*

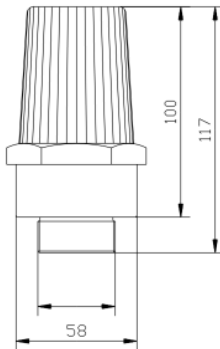
	<u>BS 603 EI and 603 EIS</u>	<u>BS 603 FI and BS 603 FIS</u>
<b>Input Voltage:</b>	12 V	24 V
<b>Rated Current:</b>	0.6 A	0.3 A
<b>Nominal Rating:</b>	7.2 W	7.2 W
<b>Nominal Rating of</b>		
<b>Photo-Flash Lamp:</b>	5 Ws	5 Ws
<b>Flash Frequency:</b>	1 Hz	1 Hz

When using external controlling a switching-off lag of 0 - 7 seconds can be adjusted in order to bridge breaks, in between telephone telephone ringing signals, for example



### Optical Alarm BS 606 A

It consists of a photo-flash lamp with sealed electronics and open connecting cables. This alarm is activated by connecting the supply voltage to the cables coming out of the flameproof and sealed enclosure.



**Enclosure:** Screw-in socket of brass with external thread Pg 16 – 42 or corresponding threads M 22 x 1.5 – M 55 x 1.5

**Dimensions:** Approx. Ø 58 x 100 mm without screw-in thread  
External hexagon SW 60

#### Electrical Data

**Input Voltage:** 230 V  
**Frequency:** 50/60 Hz  
**Nominal Current:** 0.055 A  
**Nominal Rating:** 12 VA