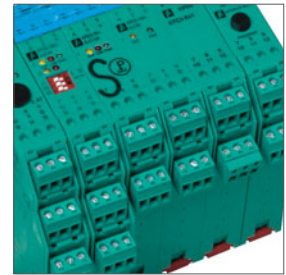


Hazardous Area Alarm Products



ATEX  CE IECEx

DATASHEET

 **VIMPEX**

Shaping Alarm Technology

Intrinsically Safe Sounder

The IS28 Banshee is an intrinsically safe sounder for use in hazardous areas. It is available in either high or low frequency versions each with four tones: buzz, fast sweep, slow sweep and continuous.

The high frequency unit has a sound output signal based on 2,600Hz for maximum audibility. The low frequency model has the sound output centred on 900Hz to satisfy installations that demand a low frequency sounder.

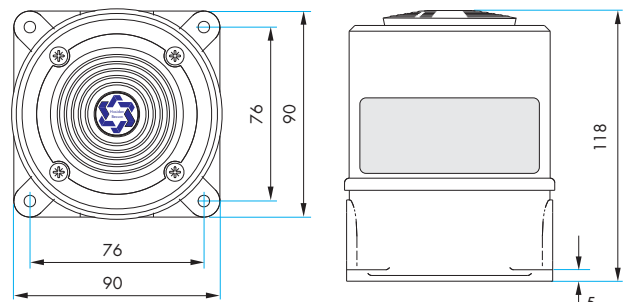
The IS28 has been ITS approved to ATEX and is suitable for use in all zones (0, 1 and 2). The IS28 has also been approved to IEC Ex by Testsafe for mining applications. The product should only be connected to the fire alarm system via an approved galvanic isolator or zener barrier. These devices are available from Vimpex.



Features

- Based on the established Banshee sounder
- Low current consumption
- High and low frequency versions
- Four user selectable tones
- Volume control fitted as standard
- Model suitable for use in mining applications

Dimensions (mm)



Specification

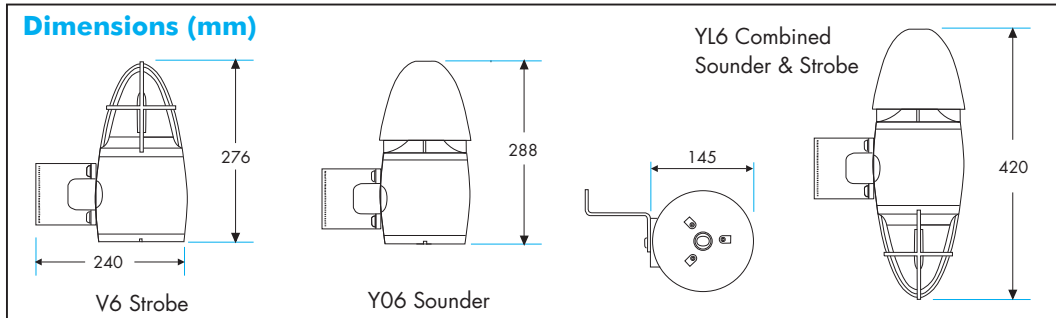
Ordering Code	8645000 (high freq), 8645100 (low freq), 8645600 (Group I high freq)
Power Supply	24Vdc
Typical Current (@24Vdc via a 28V 300Ω barrier)	18mA (high frequency) 10mA (low frequency)
Output	104 dBA (high frequency) 94dBA (low frequency)
Intrinsic Safety Approval	EN50014:1997+Amds 1 & 2, EN50020:2002 and EN50284:1999 IEC 60079-0 : 2000 IEC 60079-11 : 1999 IECEX TSA 06.0026X Group II Category 1 and Group G EEx ia IIC T5 ITS03 ATEX21311X
Installation	Connection must be made via a certified galvanic isolator or zener barrier with output parameters not exceeding U_i 30Vdc, I_i 147mA, P_i 1.3W. The output current of the barrier must be limited by resistor 'R' such that $I_i=U_i/R$.
Suitable for Zones	0,1,2
Operating Temperature	-40 to +70°C
IP Rating / Material	IP66 / ABS
Weight	0.6 kg

Please refer to drawing No. 81510 for the IS28 wiring specification.

Explosion Proof Sounders & Strobes

The Yodalex range of explosion-proof sounders and strobes offers the ruggedness and reliability essential for use in hazardous areas yet the flexibility of combination and lens colour for diverse applications.

One housing offers three options: sounder (Y06), strobe (V6) or combined sounder/strobe (YL6). The lens cover on the strobe or sounder/strobe combination can be changed without jeopardising the integrity of the flame-proof housing.



Features

- Omni-directional sound output - 110dB
- Unique product combinations
- Low current
- Dual cable entry - cable in/out
- 32 tones for international applications
- Interchangeable lens in 7 colours
- Lens guard fitted as standard

Standards

European:

EN50014:1997+Amendments 1 & 2
EN50018: 2000, EN50281-1-1:1998

ATEX Directive 94/9/EC:

Baseefa02ATEX0212X (Ex) II2 GD EEx d IIB T4 (Tamb -35C to +60C)
Baseefa02ATEX0222X (Ex) II2 GD EEx d IIB+H₂T4 (Tamb -20C to +60C)

UL Standards:

UL 1203, UL 464, UL 1638
Control No. 8N30 (Y06 & YL6) 13JM (V6)

UL Classifications:

Class I Division 1, Gas Groups BCD
Class II Division 1, Gas Groups EFG (V6 only)

Specification

Model	Sounder (Y06)	Strobe (V6)	Combined (YL6)
Part No. *(see below for codes)	YA60-x-x-x	FL60-x-x-x-x	YL60-x-x-x-x
Rated Voltage	24Vdc, 115 Vac or 230Vac		
Rated Current (@24vdc/115Vac/230Vac)	350/80/40 mA	220/70/40 mA	570/150/80 mA
Sound Output (dBA@1m)	110	-	110
Strobe: Flash rate	-	1 per second	
Flash energy	-	5 Joules	
Lens	Flame retardant polycarbonate in 7 colours (clear, opal, yellow, red, amber, blue and green)		
Operating Temperature: IIB only	-35 to +66°C		
Class II Div I	-25 to +66°C		
European IIB + H ₂	-20 to +66°C		
IP Rating	IP 66 - NEMA 4X		
Enclosure (Fastenings stainless steel)	Body: LM6 aluminium alloy, red 2 part epoxy coating Horn: flame retardant ABS, Glass Dome: toughened glass		

* Part No. code: **x - x - x - x** ← **Certification** - **E**-European, **UL**- United States/Canada

↑ **Lens Colour** - **A**-Amber, **B**-Blue, **G**-Green, **O**-Opal, **R**-Red, **Y**-Yellow, **C**-Clear

↑ **Rated Voltage** - **D**- 24Vdc (UL/ATEX), **L**- 115Vac (ATEX), **N**- 230Vac (ATEX)

↑ **Gas Group** - EUROPE: **B**- IIB, **C**- IIB+H₂ USA: **B**- Gas Group B, **C**- Gas Group C,D

VIMPEX

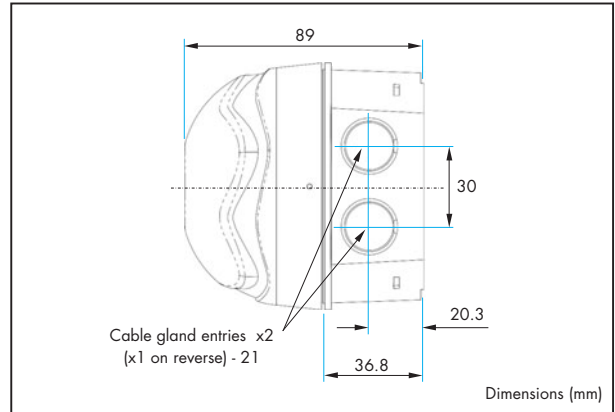
Shaping Alarm Technology

Intrinsically Safe Beacon



The IS FlashDome is an intrinsically safe beacon for use in hazardous areas. Certified to ATEX and IEC Ex, the FlashDome is designed for use in Zones 0, 1 & 2.

In order to be intrinsically safe, the IS FlashDome must be powered via an approved 28v 300Ω zener barrier or galvanic isolator. Suitable barriers and isolators are available from VimpeX.



Specification

Ordering Code	8645700
Power Supply	15 - 28Vdc
Current	5 mA (@24Vdc via a 28V 300Ω barrier)
Flash Frequency	1Hz (1 flash/second)
Intrinsic Safety Approval	EN 60079-0:2004, N60079-26:2004, EN50020:2002* II 1G EEx/Ex ia IIC T4 (-40°C <T _a < +70 °C) II 1G EEx/Ex ia IIC T5 (-40°C <T _a < +40 °C) ITS06ATEX25407X IEC Ex ITS06. 0018X WEEE Compliant
Installation	Connection must be made via a certified galvanic isolator or zener barrier with output parameters not exceeding U _i =28V, I _i =93mA, P _i =0.66W. The output current of the barrier must be limited by resistor 'R' such that I _i =U _i /R
Suitable for Zones	0,1,2
Operating Temperature	-40 to +70°C
IP Rating / Material	IP66 / Body - Flame retardant ABS Lens - Polycarbonate
Weight	0.14 kg

* Except in respect of those requirements referred to at item 18 of Intertek certificate no. ITS06ATEX2540X

Barriers and Isolators

DIN rail mounted MTL galvanic isolators and zener barriers for use with both the IS28 sounder and the IS FlashDome beacon are available from VimpeX.



ECO-90-PC

Enclosure for 2 Galvanic Isolators or 3 Zener Barriers.

Ordering Codes

IS Product >	IS28 LF	IS28 HF	IS FlashDome
Galvanic Isolator: One Channel	PF-KFDO-SD2-Ex1.1045	PF-KFDO-SD2-Ex1.1045	PF-KFDO-SD2-Ex1.1045
: Two Channel	PF-KFDO-SD2-Ex2.1045	PF-KFDO-SD2-Ex2.1045	PF-KFDO-SD2-Ex2.1045
Zener barrier	PF-Z978	PF-Z978	PF-Z978

Note: Galvanic isolators do not allow for reverse-polarity monitoring.

VIMPEX

Vimpex Ltd

Star Lane, Great Wakering
Essex, SS3 0PJ England.
Tel: +44 (0) 1702 216999
Fax: +44 (0) 1702 216699
E-mail: sales@vimpex.co.uk

www.vimpex.co.uk



Quality System Certificate No. 456
Assessed to ISO 9001:2000



We reserve the right to change or amend any design or specification in line with our policy of continuing development and improvement.

Part No: DS/EXIS/ISS 10