

- ⚡ **IECEX Certified**
- ⚡ **Low power consumption**
- ⚡ **Wide operating voltage range**
- ⚡ **High sound pressure level**
- ⚡ **IP55**
- ⚡ **Compact size**



DESCRIPTION

The I.S. piezo alarm type ALT3 is an intrinsically safe sounder that may be used in group I hazardous areas such as underground coalmines. The alarm may be used as a pre-start alarm or as a general-purpose audible alarm.

The sounder has a wide operating voltage range from 2.0 volts to 18.36 volts and consumes a maximum of only 10mA making it ideal for use on long conveyors where voltage drop can be an issue.

The ALT3 easily mounts in a 28.6mm diameter hole within the host enclosure and provides an ingress protection level of IP55.

The high sound pressure level of the sounder 85dBA further increases the utility of the sounder in noisy underground coal mining applications.

The single-hole mounting and convenient flying lead termination provides for easy installation of the piezo alarm within the host enclosure.

The low profile and small size of the piezo alarm on the outside of the host enclosure ensures minimum

damage from any impact by external objects.

The wide operating ambient temperature range of -20°C to +40°C further increases the utility of the piezo alarm type ALT3.

CERTIFICATION

The I.S. piezo alarm type ALT3 is IECEX certified for use in group I hazardous areas under certificate

IECEX TSA 10.0020X Ex ia I Ma.



SPECIFICATION

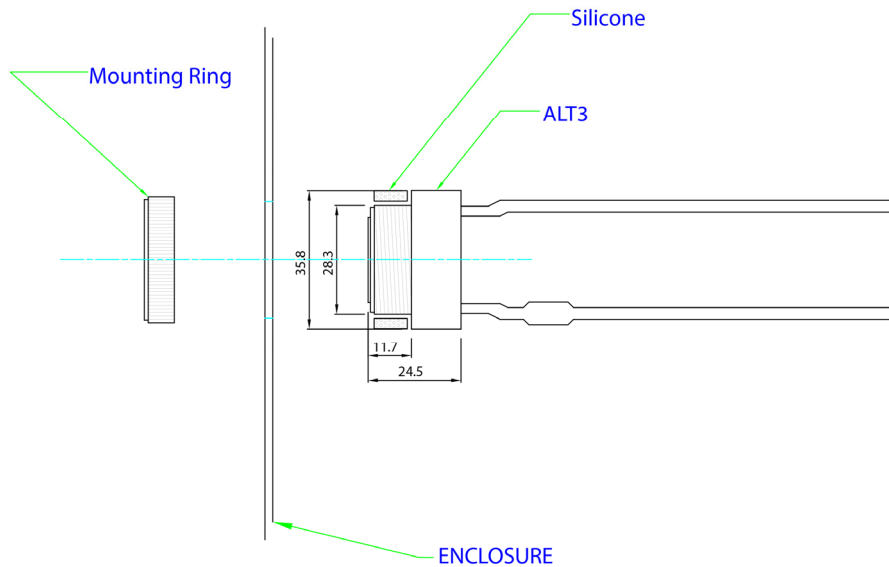
GENERAL	
Name	I.S. Piezo Alarm
Type	ALT3
Operating current	2mA to 10mA
Operating voltage range	2Vdc to 18.36Vdc
Sound frequency	2900±250Hz continuous
Sound pressure level	85dB(A) 15V @ 0.6m 77dB(A) 5V @ 0.6m
Termination	Flying leads
Flying lead length	300mm
Flying lead conductor	0.75mm ² (24/0.2)
Connection polarity	Red – positive Black - negative
Mounting hole dia	28.6mm
Maximum mounting panel thickness	3mm
Size in host enclosure	55mm (lead inc.) x 35.8mm dia
Size outside host enclosure	8-10mm 32.6mm dia

GENERAL	
Ingress protection	IP55
Material	Noryl N-190 UL 94-V0
Mass	35g
Host enclosure minimum ingress protection	IP55

ENTITY PARAMETERS	
Ui	18.36Vdc
Ii	2.35A
Li	0uH
Ci	0uF
Marking code	Ex ia I Ma
Temperature (ambient)	-20°C to +40°C

MOUNTING ARRANGEMENT

- Mounting hole 28.6mm
 Maximum Panel Thickness 3mm
 Step 1: Apply silicone on the threads of the buzzer as shown below.
 Step 2: Install the main body of the buzzer from the inside of enclosure.
 Step 3: Secure the buzzer with provided nut from outside of enclosure.
 Step 4: Remove any excess silicone.



CONNECTION

INPUT LEADS	
LEAD COLOUR	FUNCTION
RED	+VE
BLACK	-VE

ORDERING DETAILS

DESCRIPTION	ORDER CODE
I.S. PIEZO ALARM TYPE ALT3	BUZZ03



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