



### 1. Overview:

AW-EXD102 explosion-proof point-type heat detectors, which explosion-proof performance in line with GB3836-2000 series of standards, inspected by the state designated inspection units, and acquired explosion-proof certificate. Heat detectors is available in 1 and 2 Zone hazardous locations which include Class II A, B, C class T1 ~ T6 temperature group explosive gas environment.

AW-EXD102 explosion-proof point-type heat detectors is a kind of non-coding switching (relay output) detector. Detector can be used with fire alarm control panel of any domestic and foreign manufacturers.

AW-EXD102 explosion-proof point-type heat detectors use temperature sensitivity of thermal components to detect the ambient temperature, which is built-in high reliability single-chip. It uses a special skills for processing, stable and reliable, particularly applicable to the sharp temperature rise when place is in fire.

### 2. The Main Technical Parameters

1. Explosion-proof mark: Exd ib II CT6
2. Operating voltage: DC24V  $\pm$  3V (polarity)
3. Monitoring Current:  $\leq$ 60 $\mu$ A
4. Alarm Current: 10mA ~ 30mA
5. Alarm output form: normally open and closed, a pair of dry contact output
6. Response threshold:
  - 0.10dB / m ~ 0.27 dB / m
7. Alarm reset: power outages (10s Min, DC2.5V Max)
8. Power Time:  $\leq$ 10S
9. The highest wind speed: 7.6m / s (1500fpm)
10. Alarm confirmation light:

red, inspection does not shine, alarm shine always

11. protection area: When space height does not exceed 8m, protected area is 30m<sup>2</sup>.

12. Working environment:

Temperature: -10 °C ~ + 50 °C

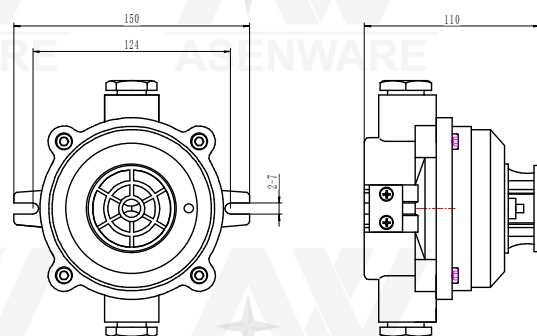
Relative humidity:  $\leq$ 95% non-condensing

Atmospheric pressure: 80kPa ~ 110kPa

13. The outlet thread: G20

14. Weight: 1.2kg

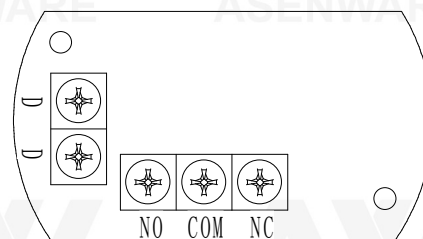
### 3. Contour Map



### 4. Installation and Wiring

1. Installation: according to the site with the M6 screws through the mounting foot barrier detector explosion-proof housing is fixed to the ceiling. Introducing means using the cable clamping nut seal ring structure.

2. Wiring :( see below)



DD: DC24V (non-polar); NO: normally open contact; COM: Common; NC: normally closed contact.

**5. Notes**

1. Strictly prohibited in flammable and explosive places live demolition.
2. Not to damage the surface explosion during installation, and keep it clean. Surface explosion fastening screws should be tightened evenly, do not pay attention to proof surface foreign material.
3. Long-term use on a regular basis to detect performance of the detector is intact, such as failure or damage to the special Industry personnel.

Explosion-point type heat detectors  
Installation using SHEET



AW-EXD102 type