
Instructions for Chute blockage detector
ZAXDS-I V1.0

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1. Overviews

When blockage occurs in the chute, the chute blockage detector can send out the switching signal in time. According to the signal, the staff can take timely measures to prevent the accident of material blocking the chute.

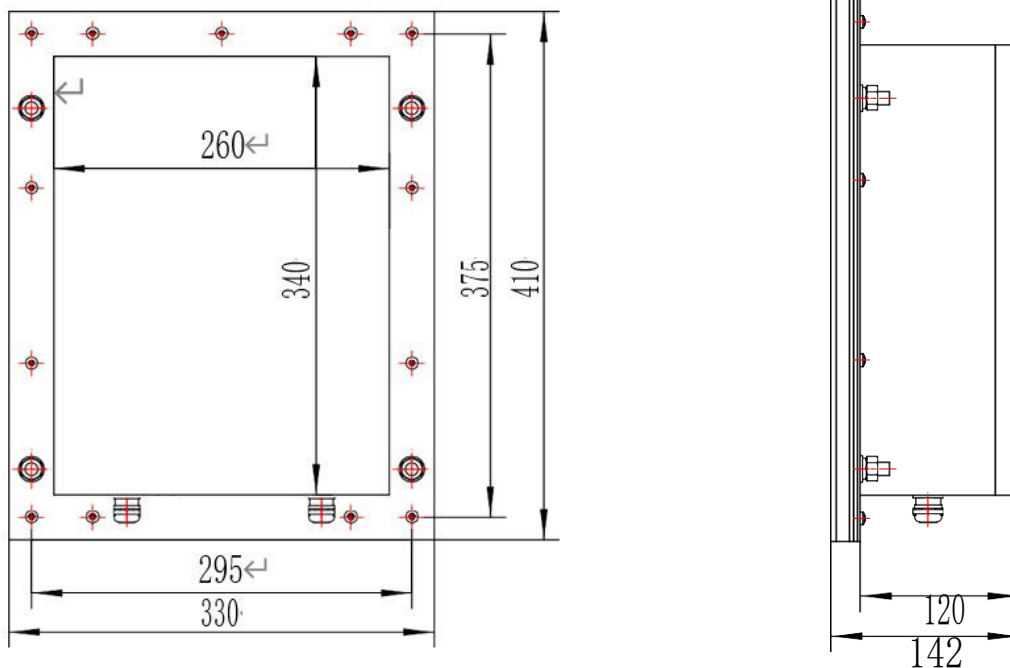
2.Characteristic

- 2.1. The shell has high protection grade and good sealing property.
 - 2.2. The surface of the box is sprayed with plastic and has strong corrosion resistance.
 - 2.3. Normal open and normal closed output.
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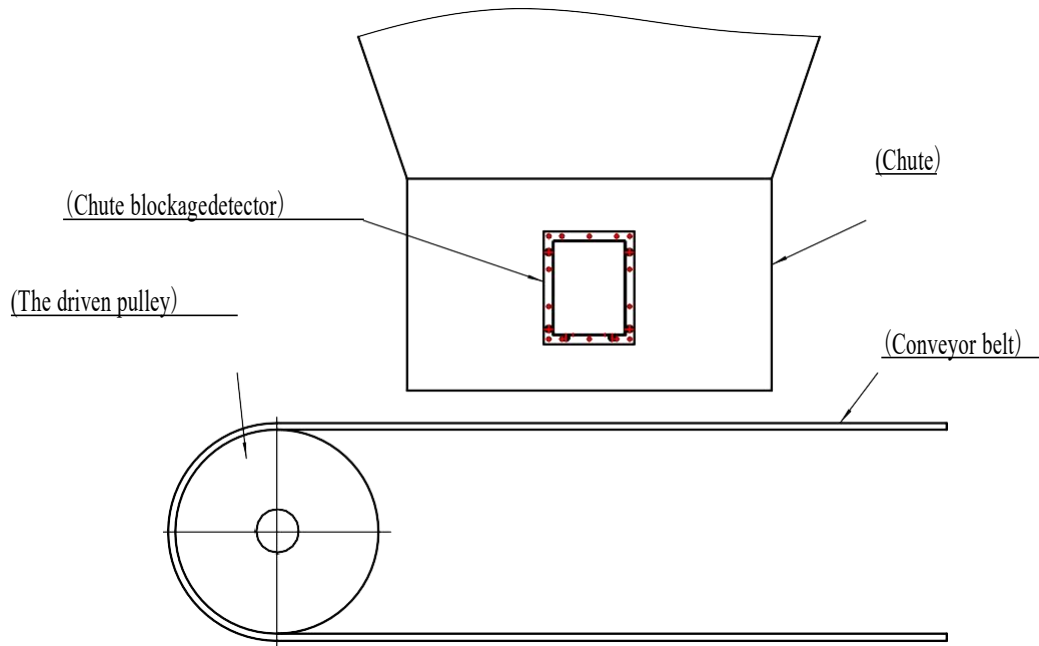
3.Parameter table

Ambient temperature	-20°C~50°C
Relative humidity	0~95%
Atmospheric pressure	80 kPa ~110kPa
Output mode and quantity	2 × SPDT
Contact rating	AC380V 3A DC24V 3A
Working position	Installed on the side wall of chute not impacted by material
Reset mode	Automatic
Protection level	IP54
Applicable cable diameter	6~10mm

4. Structure features and main dimensions



5. Installation indication



6. Installation instructions

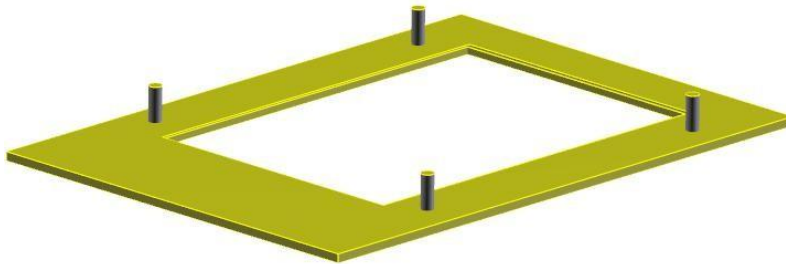
6.1. WARNING:

6.1.1. Do not live operation.

6.1.2. This product is non-explosion-proof products, please do not use in inflammable and explosive environment.

6.2. Prepare materials :

6.2.1. Mounting backplane

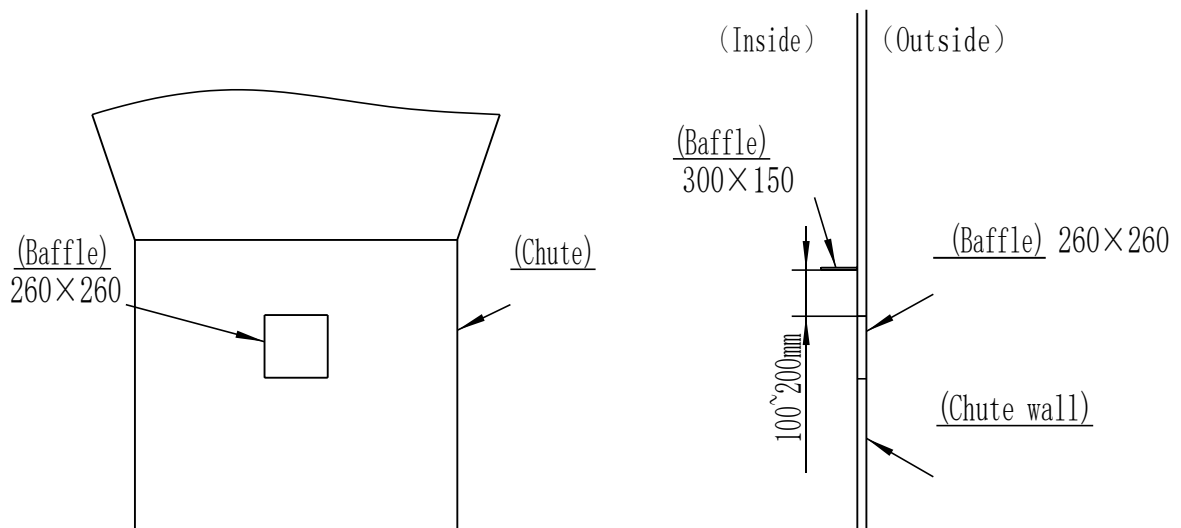


6.2.2. Chute blockage detector

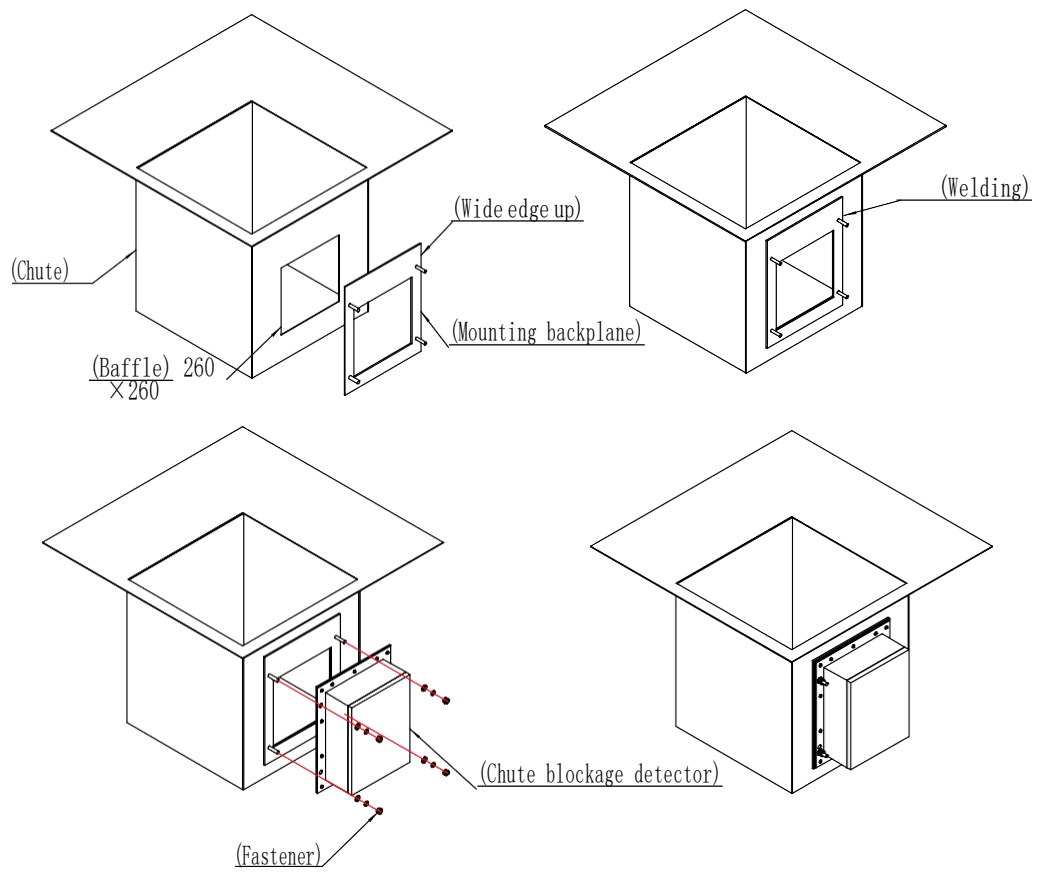


6.3. Installation steps :

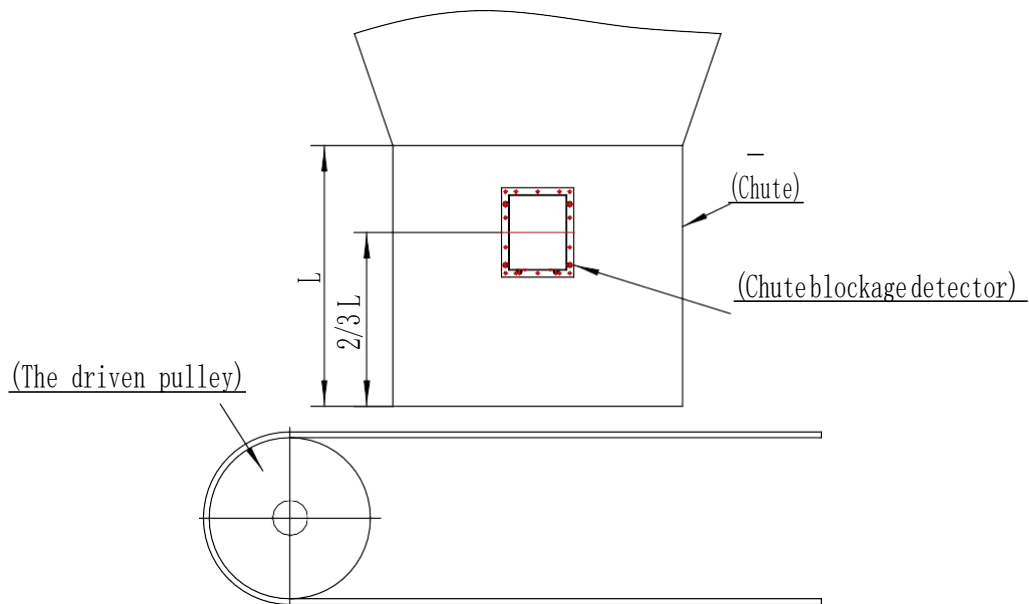
- 6.3.1. First open a 260mm × 260mm square hole on the side wall of the chute, and then weld a 300mm × 150mm baffle above the hole 100-200mm position of the inner wall of the chute, prevent the misoperation caused by the large material falling directly impact the movable door.



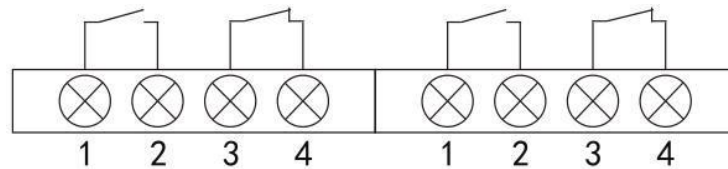
- 6.3.2. Weld the mounting bracket on the chute side wall. Tighten the chute blockage detector with bolts.



6.3.3. The detector should be ensured not to be impacted by materials in the chute after installation. The recommended installation height is about two-thirds from the bottom. To realize the two functions of alarm and shutdown, two sets of installation can be adopted, and the other set is recommended installation height is about one third from the bottom.



6.4. Wiring principle



Chute blockage detector wiring diagram

7. Working principle

When the material is blocked in the chute, the piled material will form a certain pressure on the side wall of the chute, so as to push the detector's movable door outward. When the movable door control switch action, will send an alarm or stop signal. If it is connected to the control line of the vibrator, the function of automatic vibration can be realized without stopping when it is slightly blocked. The movable door will reset automatically after troubleshooting.

8. Maintain

8.1. Regular dust removal, regular check whether the switch is working properly;

8.2. Regular check whether the elastic rubber sheet is tearing.
