

# HENAN EXCELLENT MACHINERY CO.,LTD

BULK MATERIAL HANDLING

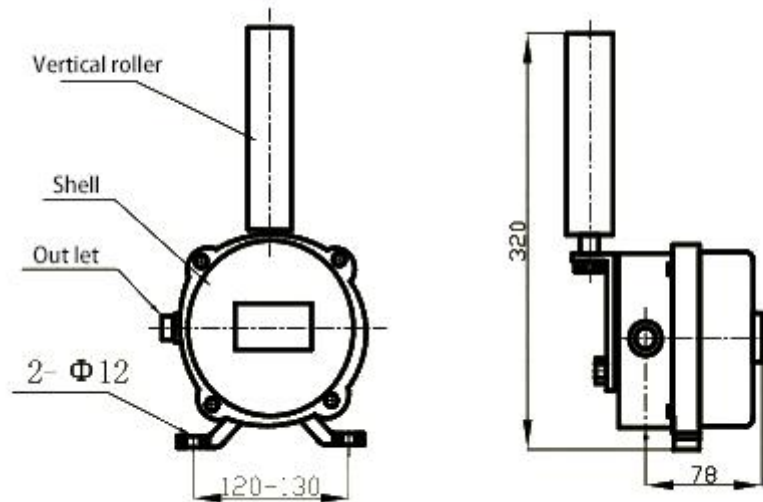


# BELT SWAY SWITCH



### 3. Service life: Reliable Open-Close 100,000 times

### III. Configuration structure



### IV. Working principle

The working process of the CTKPT<sub>1</sub> series two-pole belt sway switch is that when the conveyor belt is deflected, the belt touches the switch vertical roller. When the vertical roller is deflected to the I-level action angle, the I-stage

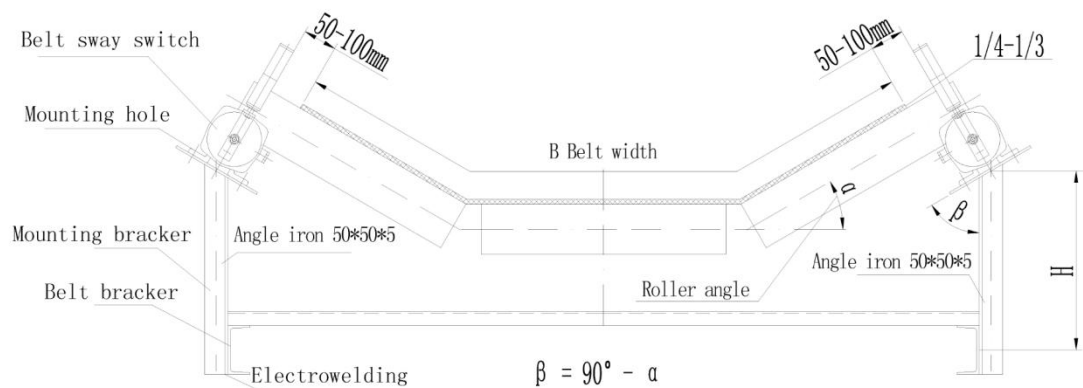
switch operates and outputs a signal alarm. If the belt continues to run off and the vertical roller of the switch reaches the level II action angle, the level II switch sends a stop signal, and if it is connected to the control line, automatic shutdown can be realized.

Model	Acting force	Contact number		Switch action Angle			Weight	Protection level
		Normal open	Normal close	First Grade	Second Grade	Limiting Angle		
CTKPT <sub>1</sub> -12-30	20-70N	2	2	12°	30°	75°	3.5KG	IP65
CTKPT <sub>1</sub> -10-45	20-70N	2	2	10°	45°	75°	3.5KG	IP65
CTKPT <sub>1</sub> -20-35	20-70N	2	2	20°	35°	75°	3.5KG	IP65

## V. installation and wiring

### i. Installation method

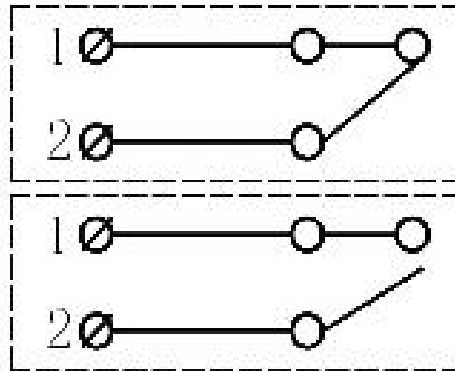
1. The deviation switch shall be installed on both sides of the belt conveyor, and its position shall be such that the vertical roller is perpendicular to the plane of the belt side, and the belt edge shall be fixed  $1/4$ - $1/3$  of the roll is suitable.
2. The distance between the vertical roller and the belt should generally be within the natural offset of the belt plus 50~100 mm.
3. The deviation switch is installed in pairs in the head, tail and middle positions. Generally, three pairs of tapes with a length of 100 meters are suitable.
4. After the mounting bracket is welded or bolted to the frame of the belt machine, fasten the running switch to the mounting bracket with bolts just go up.



### ii. Wiring

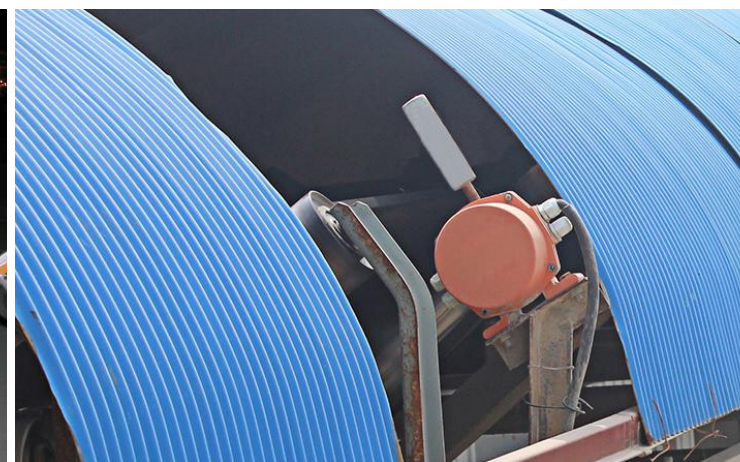
The deviation switch has been equipped with a four-core rubber cable with a length of 1.5M. The wire numbers on the core are marked 1, 2, 3, and 4 respectively. Among them, 1 and 2 are the break contact lead wires. 3, 4 is the moving contact lead line.





## VI. Ordering instruction

1. Please specify the product model, name and quantity when ordering.
2. If the user needs to install the bracket, please specify the tape machine model, slot angle and bandwidth when ordering





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