

# 两极跑偏开关

## Belt Sway Switches

商标注册号: 8404680

两级跑偏开关是分两个位置检测输送机皮带的跑偏程度, 根据皮带的跑偏程度输出报警或停止信号的一种开关。

使用此开关可防止昂贵的输送皮带受损坏以及因事故引起输送系统的混乱。

两级跑偏开关在安全运行输送系统里是不可缺少的, 因此广泛用于钢铁厂, 水泥厂, 化工厂, 火力发电厂等等。

### 特点

- 室外用 IP67
- 使用高性能的微动开关和无需加油的滚珠轴承, 侧面滚轮最大可倾斜到75度, 在功能设计上是很充裕的。
- 因此输送机发生异常偏离时, 开关也会准确动作, 其使用寿命也非常长。
- 接点动作时, 侧面滚轮不转动2度以上就不可恢复(滞后现象的特性), 因此开关动作时的接点关闭不会重复。所以用简单的控制电路可保护皮带输送机。

### 设计说明

### SPECIFICATIONS

- 侧面滚轮的倾斜角度 最大75度  
Inclination angle of touch roller
- 侧面滚轮的操作扭力 3.4~5.4Nm(0.35~0.55kgm)  
Operating torque of touch roller
- 接点数 2  
Number of contacts
- 接点容量 250V AC 5A  
Capacity of contact
- 接线口  
Lead outlet
- 室外型 电缆规格 6~12mm  
Weatherproof cable size
- 工厂耐压防爆型·粉尘防爆型 G 1/2  
Flameproof type. Dust ignition-proof type
- 保护结构(ELAP-20型) IP67  
Enclosure(type ELAP-20)
- 涂装色 色标 7.5GY/10  
Coating color Munsell

The BELT SWAY SWITCH functions in two ways; detecting any deviation or sway in the conveyor belt and providing an alarm and sending out signal to stop the conveyor.

Use of this switch in material transport system can prevent damage to the conveyor belt and/or drive system and avoid consequential confusion on transport lines in the event of an accident.

### FEATURES

- Weatherproof Type.IP67.
- The Belt Sway Switch is constructed with high reliability microswitches, lubricateless ball bearings, a touch roller which is tilted to 75°, and other parts; its functions are designed with a large margin for sure action and long life.
- The switch has difference of 2 between ON and OFF, to switch certainly at an action point. Therefore, this switch can prevent belt conveyor troubles by a simple circuit.

ELAP-20  
室外型  
WEATHERPROOF TYPE  
Mass 3.0kg



ELAM-10  
工厂耐压防爆型 (d2G4)  
FLAMEPROOF TYPE

ELADP-22  
粉尘防爆型 (SDP 13)  
DUST IGNITION-PROOF  
TYPE  
Mass 5.0kg

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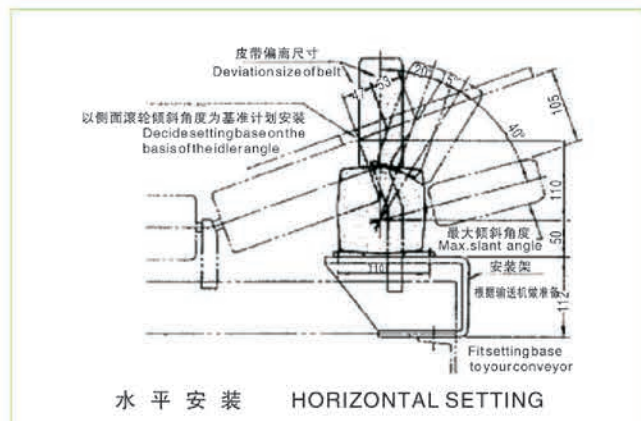
Http://matusima.co.jp E-mail:sales@matusima.co.jp





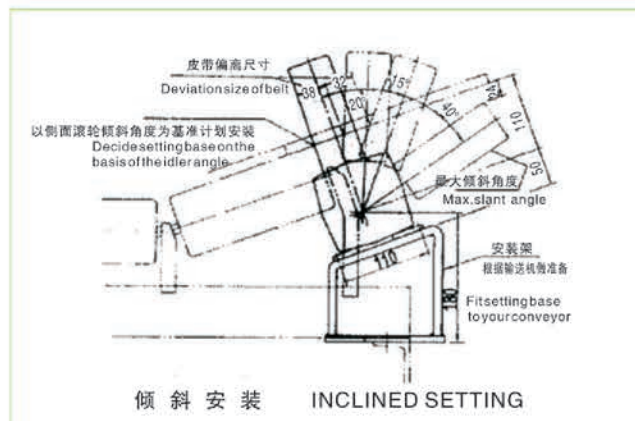
## 举例说明安装方法

举例安装说明的各部分的尺寸以三槽式的皮带输送机, 20度的输送槽角, 600mm宽的皮带为参考。关于更宽的皮带输送机的安装, 请参考下面安装示意图所标的尺寸作决定。



## EXAMPLE FOR INSTALLTION

Each dimension shown in the figures is based on a three-trough type belt conveyor, trough angle 20°, and belt width 600mm. For large belt width, computer dimensions of setting base by referring to the figures.

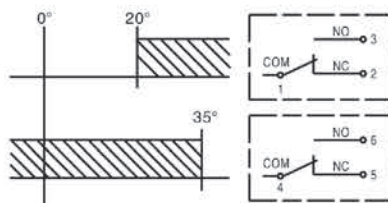


## 动作说明

- 示意图中的角度为侧面滚轮的倾斜角度
- 接点1, 2倾斜到20度时闭合, 恢复到18度时断开
- 接点4, 5倾斜到35度时断开, 恢复到33度时闭合
- 接点(限位开关)动作位置根据调整凸轮可变更

## OPERATION

设定误差  $\pm 2^\circ$   
Setting error  $\pm 2^\circ$

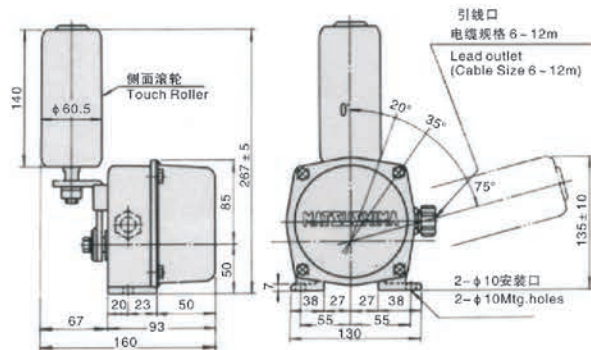
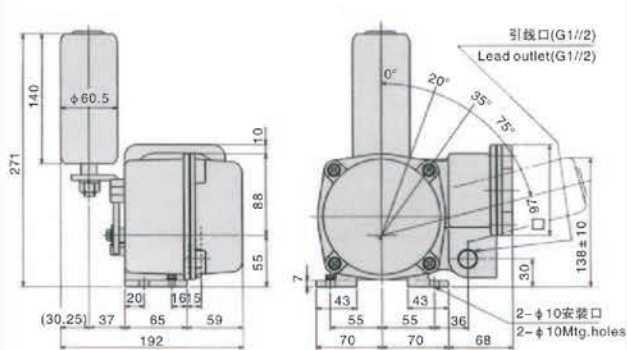


- The angles shown in the figure are the slant angles of the touch roller.
- The contact 1-2 closes at 20° slant, and opens at 18° in reset.
- The contact 4-5 opens at 35° slant, and closes at 33° in reset.
- Action position of the contacts (limit switches) can be changed by adjusting the cams.

## 外形示意图

## DIMENSIONS in mm

## 屋外形 WEATHERPROOF TYPE ELAP-20

工厂耐压防爆型 FLAMEPROOF TYPE ELAM-10  
粉尘防爆型 DUST IGNITION-PROOF TYPE ELADP-22

TYPE ELADP-22

注) 因产品的改良, 有可能变更设计说明及外形尺寸。

Note: The specifications are subject to change without notices.

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