

ABSTRACT

ROTATING ARC SENSOR

Embodiments of the present disclosure disclose a rotating arc sensor includes a motor, a connecting rod for driving a welding gun to perform an annular movement, a sliding assembly for supporting the weight of the connecting rod and supporting a free movement of one end of the connecting rod, and an eccentric oscillating member for driving another end of the connecting rod to perform an annular movement, wherein the center of the rotating shaft of the motor is provided with a hollow cavity capable of communicating with both ends of the motor, the sliding assembly is disposed at a top end of the motor, and one end of the connecting rod protrudes out of the top end of the motor through the hollow cavity and is connected with the sliding assembly. The eccentric oscillating member includes a first flange and a second flange. The other end of the connecting rod extends into the second flange and is connected with an inner wall of the second flange through a bearing assembly. With the rotating arc sensor provided by the embodiments of the present disclosure, the welding gun can be detachably disposed outside the arc sensor on the basis of ensuring the precise movement trajectory of the welding gun, thereby realizing the effect of convenient maintenance and replacement of the welding gun.

Figure 1