U-5 Circuit Controller

The U-5 Switch Circuit Controller monitors the position of rail switch points and provides electrical signals to control various pieces of equipment based on the position of the points. The terminals, contacts, operating cams, and other components are installed in a weather tight steel housing. A hinged cover provides easy internal access for inspection, adjustment, and maintenance. Two elbow type ventilators provide for air circulation to minimize condensation within the steel housing.

Starting in 2008, the U-5 incorporated new, more durable “space-age” materials to extend service life and reduce maintenance time/costs.

General Description

The machine has a 1-1/2 inch (3.81 cm) diameter cam shaft which provides a large bearing surface to reduce bushing wear. This cam shaft also provides a large surface area to engage a micrometer adjusting screw to prevent wear and a loss of sensitivity. All of the shaft bearings are self-lubricating.

Although this catalog section only covers the 4-way U-5 Switch Circuit Controller, the controller is available in several other standard and yard type configurations by contacting your ASTS USA Account Executive. Standard type machine designs include 2-way, 4-way, or 6-way sizes for 2-position, 3-position, and polarized applications. Three-way, 3-position and 1-way, 2-position designs are available for yard type machines.

The operating crank of the U-5 Switch Circuit Controller is solidly connected to the end points of a switch layout and as the switch points move, the operating crank rotates a cam shaft inside the Circuit Controller. As the cam shaft rotates, it moves cams along operating arms causing them to open and close contact springs in a contact board.

Advantages

- Provides reliable detection of switch point position
- Numerous applications
- Easily adjusted
- Improved materials over earlier designs.

Specifications

Overall Dimensions: 7.75” W x 7.5” H x 17” D
(19.7 cm W x 19.0 cm H x 43.2 cm D)

Weight: 68 lbs. (30.8 kg) - including crank

Position: 2-way (all units)

Contacts: 4F and 4B (all units)

Ordering Information

- Refer to ordering tabulation on next page for U-5 part numbers.
- Note: Listed units do not include crank.
- When placing an order, please indicate:
  - Standard or yard type machine
  - Cam arrangement
  - Contact arrangement
  - Crank offset: Use tie location to determine proper offset, refer to “Z” dimension in diagram.
- Contact ASTS USA for 6-way models of the U-5.
- Refer to RSE-6H1 for controller operating rods.
- Refer to RSE-6J1 for recommended U-5 maintenance tools.
### Ordering Information (cont’d)

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Note (2): Contacts in spaces: 1-F&B (3-pos.), 2-F&B (3-pos.), 3-F&B (2-pos.), 4&B (2-pos.)