MODULOC Control Systems

FLUSH SERIES 2000 LONG RANGE INDUCTIVE PROXIMITY SENSORS

Installation, Operation and Instruction Manual

Product Description

The Series 2000 Flush mounting Inductive Proximity Sensors are built specifically for installation in the harshest of industrial environments. They are ideal for mounting flush or slightly below the floor pan of roller tables and other conveyor systems.

The combination of large sensing distances with base mounting onto or embedded in steel surround allows their installation with complete physical protection. Available in a wide variety of configurations, these sensors offer a very practical solution to the detection of metal product, regardless of its shape and size.

The Integral sensors are available with a variety of base plates or fixing bolts to ensure straightforward installation and allow replacement of old line equipment. The Flat pack detectors allow the user to specify the required length of detector to suit the roller bed width while remote controllers facilitate safe access.

Available in AC and DC formats for direct feedback to PLC systems, while at the same time capable of switching contactors or relays.

The red **LED** indicates power on and the yellow **LED** indicates the sensor is switched on.

Mounting Instructions

1. Firmly mount the detector coil ensuring that "closely" surrounding metalwork is no higher than the top face of the flush sensor.
2. Where surrounded by metalwork on all four sides a short slot should be cut in one edge. Ensure all surrounding metalwork is firmly secured. Metalwork above the face of the sensor should be preferably 50 mm away from the edge of the sensor coil.
3. Where the sensor is mounted close to a steel roller or other moving metalwork position a fixed metalwork beam between the coil and roller. The Coil and the roller the sensor should be calibrated with these items in motion.
4. Where Remote Controller used ensure the coax cable is run away from mains AC Supply or drive motors. Ensure no stress on the cable or its connectors.
5. Ensure the Detector coil is firmly bolted down onto a "rigid metalwork" as any movement will effect its performance.

Adjustment Instructions

1 .Loosen locking nut on fine sensitivity potentiometer (1 turn type) and adjust to mid-way point.
2. Slowly adjust course sensitivity potentiometer (20 turn type) clockwise until sensor switches as indicated by yellow LED.
3. Adjust the course sensitivity potentiometer slowly counter-clockwise until the sensor un-switches and then de-sensitise by further 1/2 turn counter-clockwise. Check that the sensor switches cleanly on and off and de-sensitise further if necessary. The sensor is now set to maximum sensitivity.
4. Determine the sensing range of the sensor by using the smallest product to be detected and ensure this is at least 20% greater than product pass line. Raise sensor accordingly if this not the case.
5. Where the sensing range is greater than required, the sensitivity should be further reduced but the adjustment of fine sensitivity potentiometer as this will ensure more stable performance.
6. Finger tighten (not with spanner) locking nut on fine adjuster sensitivity potentiometer
7. Check sensor for repetitive performance with product passing over. The sensor adjustment now completed.

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