MODULOC

NON FLUSH SERIES 2000 LONG RANGE INDUCTIVE PROXIMITY SENSORS

Installation, Operation and Instruction Manual

Product Description

The Series 2000 Non-Flush 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 providing sufficient metal free provided around the detector coil.

The nominal large sensing range of these Detectors combined with base mounting enables installation with complete physical protection, yet detect small profile product. 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 " all "surrounding metalwork is at least the width of the coil from its outer edge.
2. Where surrounded by metalwork on all four sides a short slot should be cut in one edge.
3. Where the sensor is nearby a steel roller or other moving metalwork then position fixed metal work between the coil and the roller. The Detector should be calibrated with the roller in motion.
4. Where Remote Controller used ensure the coaxial cable run is away from mains AC supply or drive motors. Ensure no stress placed on the cable or its connections
5. Ensure the Detector Coil is firmly bolted down to "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. If switch off is slow this may mean more surrounding metalwork must be removed. The sensor is now set to maximum sensitivity.
4. Determine the sensing range by testing with the smallest section product to be detected and ensure this is at least 20% greater than product pass line. Raise the sensor accordingly if this not the case.
5. Where the sensing range is greater than required, the sensitivity should be further reduced by adjustment of the fine potentiometer to ensure more stable performance.
6. Finger tighten (not with spanner) locking nut on fine adjuster potentiometer
7. Check sensor for repetitive performance with product passing over. Sensor adjustment now completed.

MODULOC' Control Systems Ltd.
St, Albans, Hertfordshire AL2 1 HO United Kingdom
Phone' +44 (0)1727821313 FAX' +44 (0)1727826804
E-Mail: sales@moduloc-intl,com Website www.moduloc-intl,com

MODULOC" Control Systems, Inc. 134 Painter Street, Pittsburgh, PA 15085 USA
Phone 412-374-8880 FAX 412-374-9440
E-Mail sales@moduloc.netwebz.com Website. www.moduloc-intl.com