Final Set-up

Ensure that all connections are correct before applying power & that unit is tightened to minimise vibration. Ensure that 'end portion' (approx. 20mm) of sensor, overhangs any metalwork & that surrounding metal work is at least 30 mm from front face. Apply power to unit & machinery & check that input & output lights are turning on & off as target 'appears' & 'disappears' past face of sensor. (see dimensions for setting distance).

Fault Finding

1) **Input & Output LED's stay 'ON'**

Check that the 20mm end section of the sensor is not bolted directly to metalwork.

Check that there is an air space between sensor & any surrounding metalwork (30mm min.)

Check that the machinery is rotating & that the target is actually leaving the sensor before re-appearing.

Check that background metalwork, behind target, is far enough away so as not to be detected.

2) **Input & Output LED's stay 'OFF'**

Check that target is within specified operating range of unit.

Check that machinery is rotating & that target is passing front face of sensor.

CE

THIS PRODUCT CONFORMS TO THE REQUIREMENTS FOR CE MARKING

When this product is incorporated into other machinery or apparatus, that apparatus must not then be put into service (in the E.C) until it has been declared in conformity with the appropriate E.C Directive/s.

Guarantee

The equipment is covered by a 12 months guarantee from the date of shipment. Any faults arising due to faulty materials or workmanship, within the guarantee period, will be corrected free of charge providing the equipment is returned to us carriage paid.

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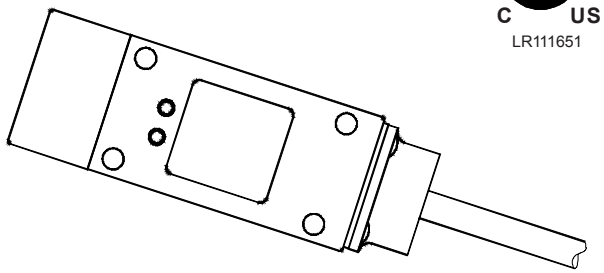
PROXIMITY SENSOR

C US
LR111651



P800 Series
Limit Switch Style
DIN Standard
Proximity Sensor

Iss: 03/22/02

TECHNICAL INFORMATION

P8001V34FC/P8001V10FC/P8002V10FC

Introduction

The P800 series, limit switch style proximity sensors work on the damped oscillator principle. No contact is made between the sensor & plant being monitored. The proximity sensors detect a stud or bolt mounted on the shaft or machinery.

Units are available for use on 12-240V dc, 24-240V ac or 10-30V dc supply, with fully opto-isolated transistor output or volt free change-over relay.

All units are fully encapsulated for use in the most arduous applications & are fitted with 2 metres multicore cable & M20 cable gland adaptor, as standard.

Installation

P800 should be wired as shown in the connections diagram. Cable length can be extended to virtually any distance required. The proximity sensors are well protected against electrical interference, but if long cable runs are used in very noisy environments, the cabling should be segregated from any high current carrying conductors.

Note that the end section (20mm) of the sensor, should overhang any metalwork that the unit is fixed to, otherwise the unit will stay in the 'ON' state. Ensure that any background metalwork, behind the target to be sensed, is at least 15mm behind target, this will prevent the proximity sensor detecting the background and target.

'Target Sensed' (Input) (red) & Output ON (output) (green) states are indicated by LED's situated on top of the proximity sensor.

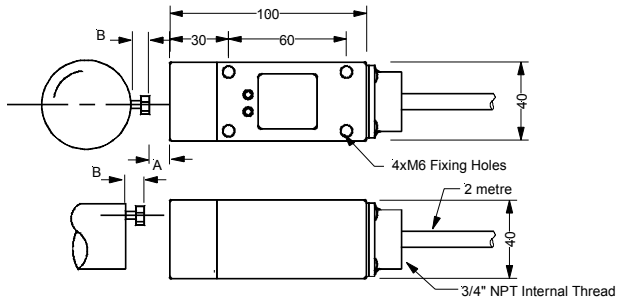
Mount the unit securely to withstand vibration.

A speed monitoring accessory is available (**Whirligig**) which allows simple fitting of equipment to machinery via an 1/2" UNC bolt & retaining strap. The unit is fully enclosed, eliminating the need for further mechanical guarding. (Ring for more information).

SPECIFICATION

Supply ..... 10-30Vdc(**1V34**)
12-240Vdc/24-240V ac (**1V10/2V10**).
Output ..... Fully opto-isolated transistor rated at 30V dc 100mA max.(**1V34**) or Volt free relay rated at 3A 240V max. (**1v10/2V10**) .
Output State ..... **P8001V34FC**-selected by supply polarity connection. **P8001V10FC** Output energeised (on) with no target. **P8002V10FC** Output de-energised (off) with no target.
Indication ..... Input (red) & Output (green) LED's.
Op. Speed (max) ..... 250Hz 1:1 duty.
Op. Temperature ..... -10 to +70°C.
Enclosure Material ..... Moulded polycarbonate/ABS mix.
Connection ..... 2 metres multicore cable + 20mm cable gland adaptor.
User Controls ..... None
Ingress Protection I.P.67

Dimensions



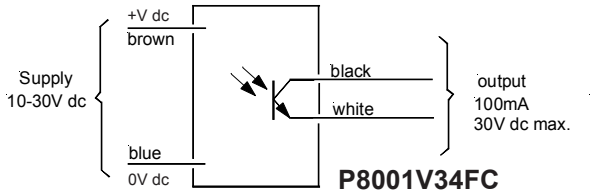
RANGE FOR SETTING UP

A = 12mm max for ferrous target

A = 6mm for non ferrous target

B =15mm minimum

Connections

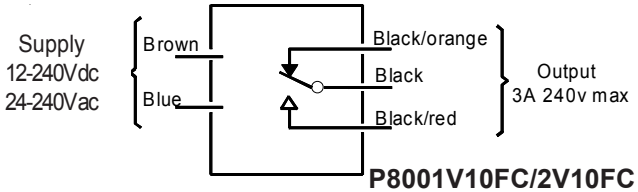


P8001V34FC

For NPN: connect load between black and brown wires with white and blue wires connected together.

For PNP: connect load between white and blue wires with brown and black wires connected together.

Connected as shown , output will be ON with object present. For output OFF with object present, reverse brown & blue wire connections only.



P8001V10FC/2V10FC

The connections above are shown with power switched off.

P8001V10FC unit output state is Energised (on) with no target present.

P8002V10FC unit output state is De-energised (off) with no target present.