

Inductive Ring Sensor

ALARM OPTIONS

Inductive Ring Sensor alarm available for 7430, 7440 Series



7440 with Inductive Ring Sensor

7440 Series flowmeters with metallic floats can be ordered with an inductive ring sensor that is able to detect a predetermined rate of flow and is compatible with stainless steel or Carboloy floats only.

Inductive ring sensors are 2-wire, DC, low current devices and are designed to be used with a remote intrinsic safety barrier /switch isolator. Sensors are available as either proximity or latching devices. The sensor can be positioned to trigger at any point on the scale. It is able to detect the metal float by producing an electromagnetic field that senses the float within its sensing zone.

The inductive sensor connects to a barrier/switch isolator which powers the sensor and provides the desired switching option. Barrier/switch isolators are available with 220VAC, 110VAC or 24VDC supply voltage requirements, contain single pole double throw (SPDT) relays, and are DIN rail mountable. See barrier/switch isolator specifications for electrical connections and further details. (Page 61)

Note: We can supply the safety barriers/switch isolators upon request. User must provide the power supply voltage.

INDUCTIVE RING SENSOR ELECTRICAL SPECIFICATIONS

Type	Inductive Proximity or Latching
Supply Voltage	5-25V DC (Switch Isolator)
Output	NAMUR
Output Load Current	<= 1 mA – Float Present >= 3 mA (15 mA max) – Float Absent
Switching Frequency	2 kHz
Housing Rating	IP67
Wiring	PVC Covered, 2 Conductor, 26 AWG, 6.5 Feet Long. Brown (+), Blue (-)
Pepperl & Fuchs Ring Sensor Approvals	UL: General Purpose FM: Intrinsically Safe CSA: Intrinsically Safe CENELEC: Intrinsically Safe
Electrical Connections	See barrier/switch isolator specifications for details. (Page 61)
Max Operating Temperature	40° C for 1/8" float; 70° C for 1/4" float.