

Inductive Slot Sensor alarm available for 7710, 7720, 7750 Series



7750 with Inductive Slot Sensor

All 7710, 7720 and 7750 Series flowmeters may be fitted with one inductive slot sensor.

Inductive sensors are 2-wire, DC low current devices and are designed to be used with a remote barrier/switch isolator capable of powering the sensor and providing the desired switching option(s). Barrier/switch isolators are available with 220 VAC, 110 VAC or 24 VDC supply voltage requirements, contain single pole, double throw (SPDT) relays, and are DIN rail mountable. (Only 24 VDC units are actually powered by the rail.) See barrier/switch isolator specifications for electrical connections and further details.

The operating temperature range for this sensor is -13° F to 158° F (-25° C to 70° C).

Note: We can supply the isolator / barrier upon request, but the user must provide the power supply voltage.

ELECTRICAL SPECIFICATIONS

Type	Inductive
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	5 kHz
Housing Rating	IP67
Wiring	2 Conductor, NAMUR, Pos = Brown, Neg.= Blue
Terminals	#1=Pos., #2=Neg.
Pepperl & Fuchs Slot Sensor Approvals:	UL: General Purpose FM: Intrinsically Safe CSA: Intrinsically Safe CENELEC: Intrinsically Safe

OPTIONAL 4-20 MA TRANSMITTER FOR 7710, 7720, 7750

To Convert the measured flow into a 4-20 mAdc signal, an angle of rotation transmitter is mounted to the indicator. This device is factory calibrated to ensure accuracy and should only be adjusted by King Instrument Company.

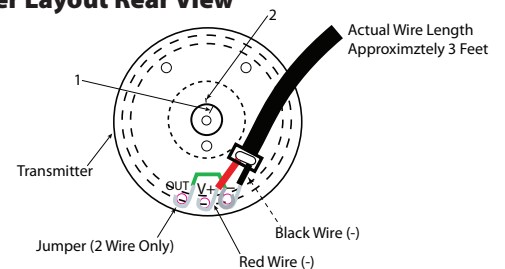
The proper and safe operation of the device requires that the specific listed below are not exceeded:

SPECIFICATIONS

Power Supply	12 to 33Vdc
Maximum Current Consumption	40mA
Temperature Limits	-13° to 158° F (-25° to 70° C)
Output	4 to 20 mAdc
Accuracy	<= 0.5%
Linearity	± 0.4%
Influence From Bearing	± 0.1%
Temperature Influence (ambient)	± 0.3% per degree C
Power Supply Influence	± 0.1%
Load Resistance Influence	± 0.1% at R max.

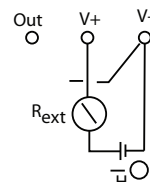
ELECTRICAL CONNECTIONS

Transmitter Layout Rear View



- Zero:** Potentiometer P1 for zero point
- SPAN:** Potentiometer P2 for measuring range and value
- 1:** Zero point mark on transmitter housing
- 2:** Zero point mark on transmitter shaft
- S1:** Switch for reversing rotation (Not Applicable)

2- Wire Connection



R_{ext}: External Resistance
= Power Supply (V) - 12V
Output Signal (mA)

H: DC Power Supply
(12 - 33 V)