

Analog Current Output Inductive



FEATURES:

- Non-contact distance measurement of metallic objects
- Analog current output
- Analog data can be directly sent to measuring systems
- Threaded cylindrical and rectangular shape
- Reverse polarity protection
- Shock and vibration resistant according to IEC 68.2.27 & IEC 68.2.6
- Protection degree IP 67: dust tight and protection from the effects of immersion

APPLICATIONS:

Typical applications include the control, detection, position, inspection and automation of machine tools, and manufacturing systems. They also can be used in the following machinery: packaging, production, printing, plastic molding, metal working, food processing, etc. and anywhere non-contact displacement measurement of metal is needed.

In the cylindrical threaded models, the current reaches its highest value when the target is at the minimum allowable distance and has a linear decrease as the target moves away (see fig. 1). Energy consumption is minimal when no target is present.

In the I-D18PK/XIP model the current reaches its lowest value at the minimum allowable distance and has a linear increase as the target moves away. This model has a very low linear error.

DESCRIPTION:

The sensor output operates as a current generator. The load is supplied with constant current, and is dependent upon the distance between a metal target and the sensor.

Output Function: Analog, PNP	MODEL				
	S731	S741	S751	S761	S725
Dimensions: mm 1 mm = .03937"					
Operating Distance	.1 - 1.5 mm	.1 - 3 mm	.1 - 6 mm	.5 - 10 mm	0 - 6 mm
External Diameter	M 8 x 1	M 12 x 1	M 18 x 1	M 30 x 1.5	40 x 50 x 12 mm
Output Current	20 - 4 mA				.6 - 15.5 mA
Linear Error	< 5 %				< 2 %
Power Supply	18 - 30 VDC				15 - 30 VDC
Power Drain	< 35 mA				
Output Resistance (Load)	400 Ω max.				
Case	Nickel-plated brass				Polypropylene
Flush Mounting	Yes				No
Protection Degree	IP 67				
Operating Temperature	0 to +50 °C / +32 to +122 °F				
Temperature Drift	< 5 %				< 4 %
Output Connection	Cable: PVC, 22 AWG, L=2 m				

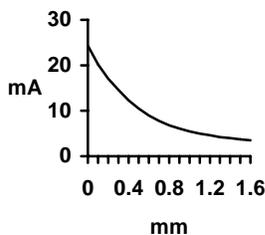


Fig. 1 Current/distance curve for model S731

WIRING:

