BALLUFF

NEW Magnetoinductive Technology

Non-contact Analog Position Sensor

absolute linear
 position feedback
with magnetic targets



Non-contact **Analog Position Sensor**

magnetoinductive

Analog Position Sensor BIL

Balluff's innovative magnetoinductive sensing technology is the best choice for short displacement linear position feedback devices.

Balluff's BIL magnetoinductive linear position sensor is mini proportioned and optimized to provide highly accurate, non-contact continuous positioning information for linear displacements up to 60 mm in length. The versatile BIL allows existing motion control systems to be affordably upgraded from endof-stroke to the flexibility and precision of continuous absolute positioning feedback.

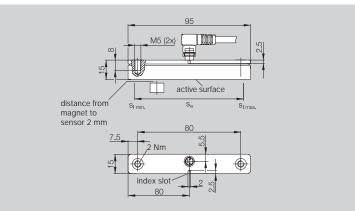
- Innovative, cost-effective magnetoinductive analog technology involving a specially shaped triangular coil and an associated magnet provides accurate, continuous positioning information.
- Temperature-compensated analog output signal delivers linearized stroke information up to 50 mm; non-linearized stroke information up to 60 mm. Voltage and current-output versions available.
- Only 95 mm long fits in tight places other sensors can't.
- Ideal replacement for wear-prone contact devices such as potentiometers - no moving parts other than the magnet.
- Robust design sensor head and processing elements are potted, providing high resistance to shock, vibration, and moisture.
- Perfect for harsh industrial applications - resistant to common contaminants that would foul potentiometers or photoelectric sensors.

BALLUFF

Balluff Inc. 8125 Holton Drive Florence, KY 41042 Phone: (859) 727-2200 Toll-free: 1-800-543-8390 Fax: (859) 727-4823 E-Mail: balluff@balluff.com

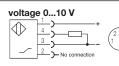
Series	BIL		
Output Signal	010 V	current 420 mA voltage 010 V	
Working range s _a	0	.60 mm	
Linear range s _l	5	.55 mm	

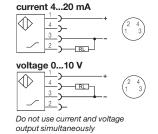




Ordering Code
Rated operational voltage U _e
Supply voltage U _B
Load resistance R _L
No-load supply current Io at Ue
Protected against polarity reversal
Ambient temperature range T _a
Housing material
Environmental protection
Shock
Vibration
Non-linearity (555 mm)
Repeatability
Temperature drift (+10°C+75°C)
Recommended connector

BIL AD0-P060A-01-S75	BIL ED0-P060A-01-S75			
24 Vd	C			
1530 Vdc	1030 Vdc / 1530 Vdc			
\geq 2 k Ω	$\leq 500 \ \Omega / \geq 2 \ k\Omega$			
≤ 35 mA	≤ 30 mA			
yes				
–10+75 °C				
PA 6.6				
IP 67				
Half-sinus, 30g, 11ms				
55 Hz, 1mm amplitude, axis x-y-z 30 minutes				
≤ 1% of full scale				
≤ 0.1% of position				
≤ 2% of full scale				
C75 ANL or C75 BNL				





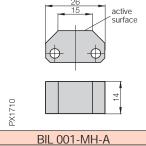
Position	marker*
Housing	sizo

Ordering code

 \emptyset 10 × 10 26 × 14 × 14 <u>Housing size</u>



BIL 000-MH-A	
hard ferrite	



PA 6.6-GF30

Housing material	hard ferrite	
* Considerations valid and in combine	ation with those markers	

Specifications valid only in combination with these markers.

http://www.balluff.com