

HGA25 Series

Free-core AC LVDT

Specifications:

Range: ± 10 to ± 500 mm

Linearity: $\pm 0.25\%$ 、 $\pm 0.5\%$ (FS)

AC excitation: 400HZ-10kHz

Diameter: 25.4mm (1.0 inch)

Applications:

Power plant

Petrochemical

Valve position feedback

Extensometers

Automation Line

Corrosive environment



ABEK SENSORS' HGA25 series LVDT linear position sensors are designed to handle extreme industrial environments. This robust linear sensor has a thick wall stainless steel housing suitable for various position measurement fields.

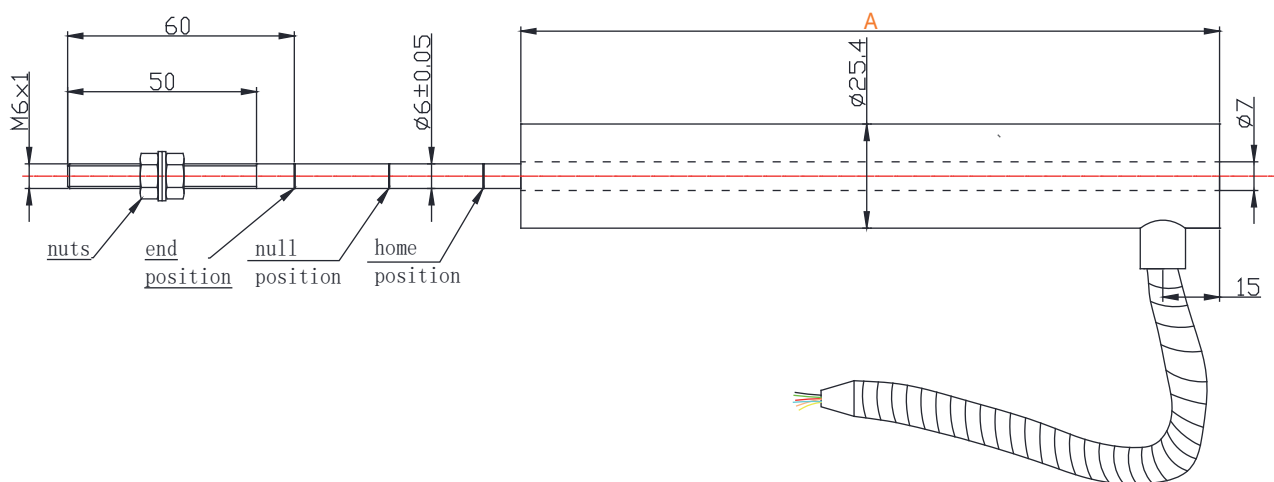
The stroke ranges from ± 10 mm to ± 500 mm, although other ranges are available at special request.

In addition to the parameters and options provided in the data sheet, we can also customize as per the customer's requirements, such as mechanical interfaces, electrical interfaces and outlet methods. At the same time, in order to facilitate the application of customers, we can provide accessories that match this series of sensors, such as mounting blocks, signal conditioners, etc., please contact our technical team for details.

General Specifications

Parameter	Specification
Input voltage:	1-10V (3V RMS)
Input frequency:	400 to 10kHz (2.5kHz RMS)
Linearity error:	$<\pm 0.5\%$ 、 $<\pm 0.25\%$ of FS (optional)
Repeatability error:	$<0.01\%$ of FSO
Hysteresis error:	$<0.01\%$ of FSO
Operating Temperature:	-55°C to $+200^{\circ}\text{C}$
Thermal coefficient:	$-0.02\%/^{\circ}\text{C}$ (rated)
Vibration resistance:	20g, 2kHz

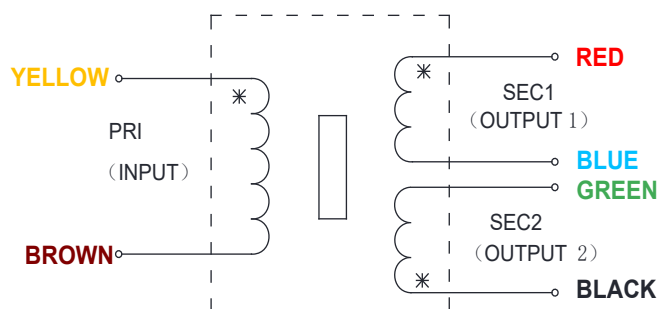
Dimensions



parameter	range code	020	025	035	050	075	100	125	150	200
range	mm	± 10	± 12.5	± 17.5	± 25	± 35	± 50	± 62.5	± 75	± 100
	mm	0~20	0~25	0~35	0~50	0~75	0~100	0~125	0~150	0~200
dimension A	mm	120	140	160	185	240	270	315	356	356

parameter	range code	250	300	350	400	500	600	700	800
range	mm	± 125	± 150	± 175	± 200	± 250	± 300	± 350	± 400
	mm	0~250	0~300	0~350	0~400	0~500	0~600	0~700	0~800
dimension A	mm	466	600	700	750	860	980	1100	1220

Wiring Connection



Ordering Guide

HGA25	0	050	25	01M	XXX
output	range		linearity	cable length	specific requirements
0 : AC	020 : 20mm	250 : 250mm	25: $\leq \pm 0.25\%$	01M: 1m	Blank for standard
	025 : 50mm	300 : 300mm	FS 50: $\leq \pm 0.5\%$	02M: 2m	020: Teflon liner
	035 : 35mm	350 : 350mm		05M: 5m	bushing
	050 : 50mm	400 : 400mm		10M: 10m	005: Inch-threaded
	075 : 75mm	500 : 500mm			shaft
	100 : 100mm	600 : 600mm			080: Radiation resistant
	125 : 125mm	700 : 700mm			
	150 : 150mm	800 : 800mm			
	200 : 200mm				

Contact us

Contact us for technical consultation or customization requests.

Tel: 400-013-6886

Tel: 010-51660768

Fax: 010-80766992

Email: info@abeksensors.com

Web: www.bjabek.com

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