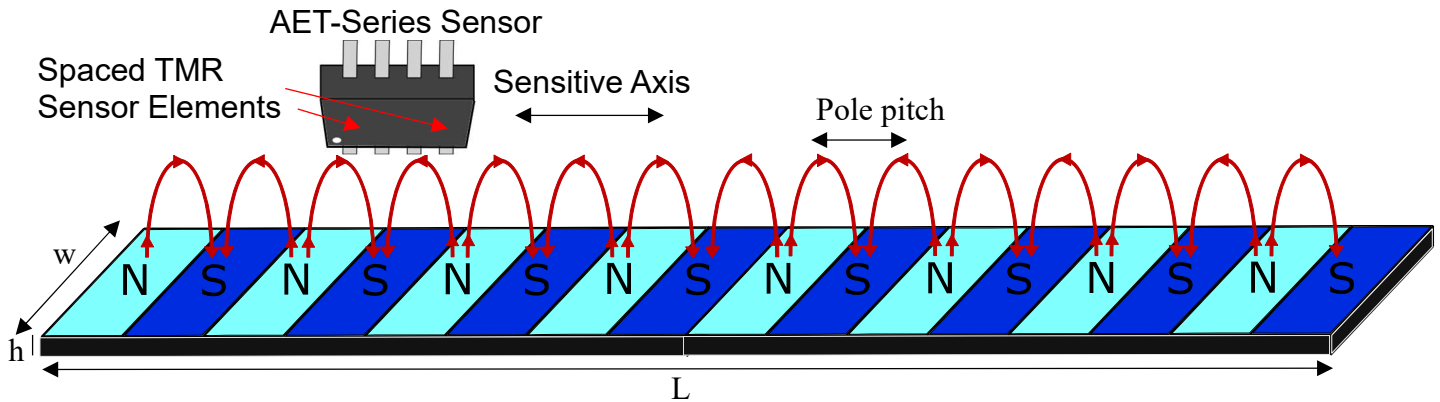


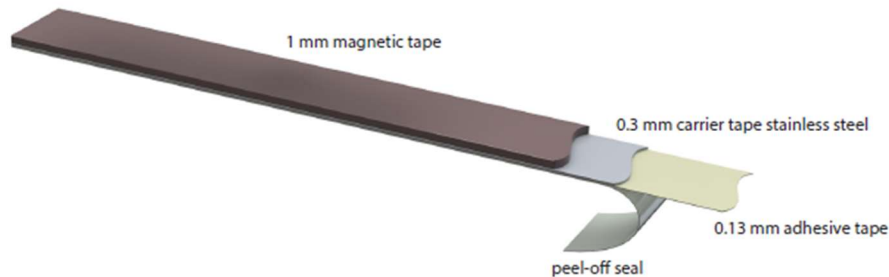
Linear Magnetic Scale Magnets for AET-Series Sensors

NVE offers magnetic linear scale for use with AET-Series TMR Linear / Off-Axis Rotational Sensors. The magnetic linear scale can be purchased to be used in conjunction with the AG970-07E evaluation kit, and part number 12592 is included in the AG965-07E AET500 demonstration board.

The linear magnetic scale is single-track incremental, as shown below. This allows AET-Series Sensors to be used as incremental encoders.



The magnetic scale is lined with a protective stainless-steel backing. The stainless steel is backed with an adhesive.



Specifications

Parameter	Symbol	Min.	Typ.	Max.	Units
Operating temperature	$T_{min}; T_{max}$	-20		100	°C
Pole Spacing Accuracy	Δp			±40	µm
Width	w	9.8	10	10.2	mm
Length	L	195	200	205	mm
Thickness	h		1.43		mm

Available Parts

Part No.	Pole Pitch	Typical Flux Density @ Airgap
12589	0.5 mm	20 mT @ 0.2 mm
12590	1 mm	20 mT @ 0.4 mm
12591	2 mm	30 mT @ 0.7 mm
12592	5 mm	30 mT @ 1.4 mm

Revision History

SB-00-134-A
September 2020

Change

- Initial datasheet release.

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NVE Corporation
11409 Valley View Road
Eden Prairie, MN 55344-3617 USA
Telephone: (952) 829-9217
Fax: (952) 829-9189
www.nve.com
e-mail: sensor-info@nve.com

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