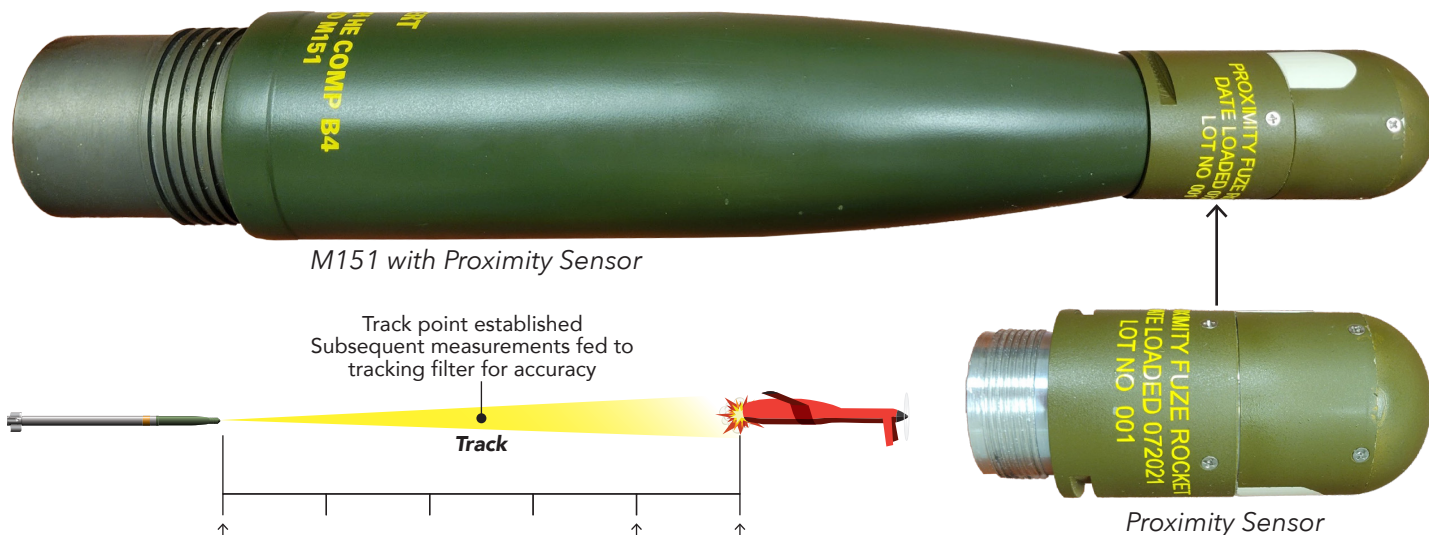


VIPER PROX. SENSOR

PROXIMITY SENSOR FOR M151 WARHEAD



TSC in conjunction with L3 Harris Fuzing and Ordnance Systems developed an integrated proximity sensor and fuze to be used with BAE Systems' APKWS® laser-guidance kit. The sensor is interchangeable with the point detonate M423 fuze that resides on an M151 warhead, and is part of the Hydra-70 family of rockets (70mm/2.75" rocket). The integrated solution includes TSC's proximity sensor and L3's Safe and Arm.

The VIPER proximity sensor is based on TSC's mature proximity sensor technology that has been implemented and qualified on multiple other missiles and bombs. TSC's proximity sensor technology allows for aimpoint selection, a wide range of end game velocities, and uses very little SWaP.

TSC PROXIMITY SENSOR ADVANTAGES

Forward Looking	Range Doppler Processing	High Range Resolution Waveforms	Tracking	Software Defined Re-programmability	Support Engagements
<ul style="list-style-type: none"> • Detects target before intercept • Tracks and integrates measurements • Accommodates varying engagement angles 	<ul style="list-style-type: none"> • Separates target from leakage • Accurately measures velocity • Permits ground testing 	<ul style="list-style-type: none"> • Removes glint • Distinguishes scattering centers • Allows feature identification 	<ul style="list-style-type: none"> • Smooths outlier measurements • Independent RF centroid & aim point • Fosters greater lethality 	<ul style="list-style-type: none"> • Reduces development/ life cycle costs • Promotes mission specific performance • Provides anti-tamper benefits 	<ul style="list-style-type: none"> • Air-to-air • Height of Burst • Counter Defilade

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