

Velocity Coils

The SABRE Ballistic Velocity Coils 8500 are used to sense ammunition which has some ferrous metal content. Two coils are used, separated by a known distance, to measure velocity. The projectiles may be magnetised prior to firing, but it is also possible to induce a magnetic field by powering the coils (self excitation).

Velocity coils are advantageous where light levels are poor or variable and where dust and smoke is a problem. SABRE can also supply frameworks to support the coils in a precise manner.

As the projectiles pass through the centre of the coils, several diameters are available to allow different dispersions to be catered for.

When self excitation is used, a typical 20mm round will require a 2A DC current in each coil to generate a sufficient signal.

The coil signals are amplified and conditioned in a Magnetic Projectile Detector and the velocity may then be measured on a SABRE Velocity & Firing Rate Analyser (VFR) or Integrated Range Instrumentation System (IRIS).



LIGHTING CONDITION IMMATERIAL

IMMUNE TO DUST AND SMOKE

LOW MAINTENANCE

We reserve the right to amend these specifications without further notice.
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SABRE
Ballistics