

DARK IGNITION DETECTOR TYPE 818



The Dark Ignition Detector Type 818 provides an output signal in response to visible light – IR excluded. When used in a dark tunnel or externally in darkness, the detector provides an analogue response signal, which is fed into the BDAS control unit type 680. This together with triple velocity detectors provides all the data required to analyse the performance of tracer ammunition from the muzzle.

A Dark Ignition System comprises a detector type 818 mounted on a photographic tripod that is connected, via a multi-way cable, to the BDAS control unit. The control unit provides the detector with power and allows adjustment of sensitivity. The analogue output from the detector is fed into the AUX-1 input of the BDAS control unit. The projectile velocity is measured at two positions using either 3 acoustic detectors in total darkness or 3 optical detectors with IR light sources. From this the ballistic coefficient is calculated. The analogue signal is then analysed to produce distance information on the tracer performance.

SPECIFICATION

DARK IGNITION DETECTOR	818 040
General Specification	
Projectile calibre	5.56mm to 155mm and above.
Projectile Velocity	30 m/s to greater than 5000 m/s.
Power Supplies	Furnished by the BDAS Control Unit and fed by way of a multicore cable.
Environment:	
Operating temperature Range	-25°C to +60°C
Humidity	The unit is fully sealed against the ingress of moisture
Dimensions:	
Diameter	150mm
Length	290mm