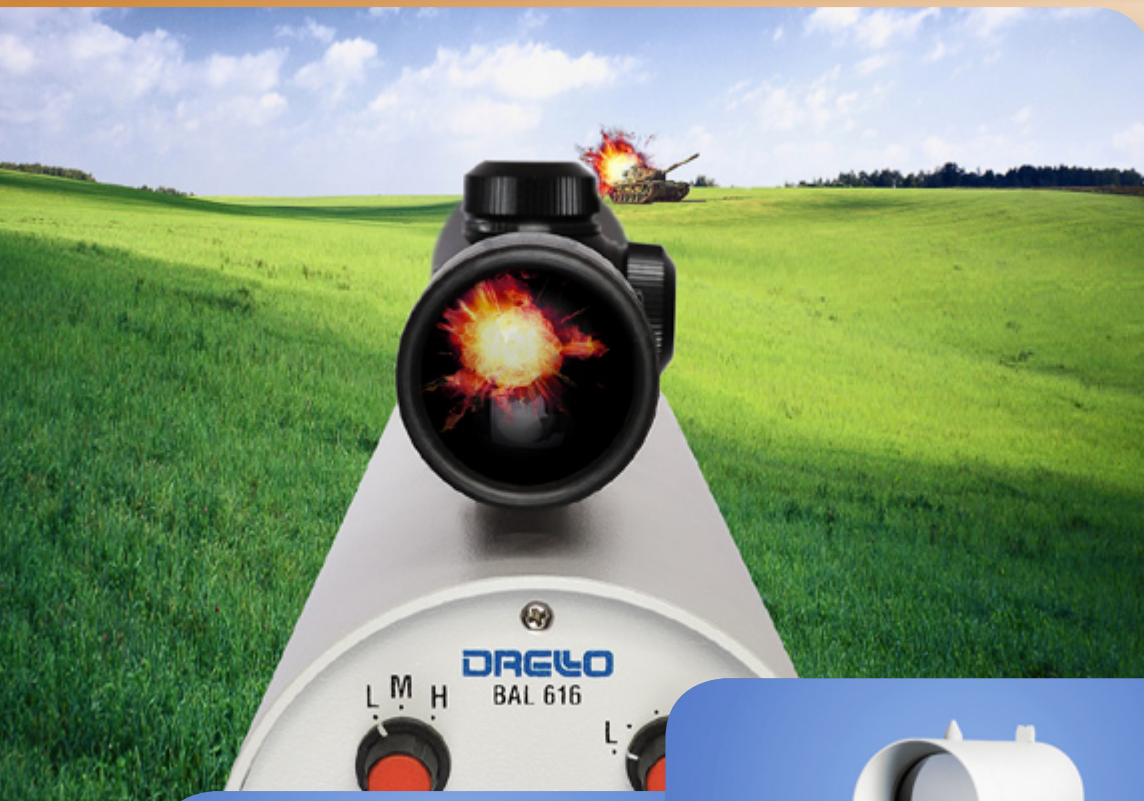
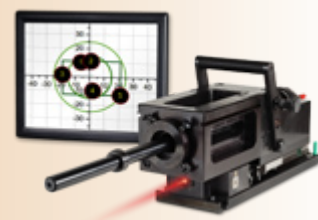


Series 610 optical sensors



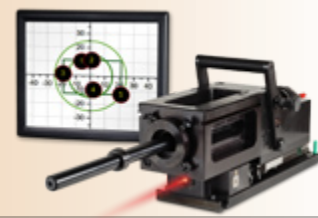
- *Sensor for testing the time fuse of explosive projectiles*
- *Sensor for testing the delay time of tandem projectiles against reactive armour*
- *Sensor for testing tracer ammunition (tracer indicators) according to AC/225*

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DRELO
Ballistics

Series 610 optical sensors



The 615 sensor is used for testing the fuse time of explosive projectiles.

The 615 sensor is able to detect an explosion flash at a distance of 5 km under good visual conditions that is comparable to flash guide number 45.



The 616 sensor is used for testing so-called tandem ammunition against reactive armour.

Generally, the use of tandem ammunition involves the use of rocket-propelled hollow charges with two rounds.

For testing, the delay between ignition of the first and second round is measured.



Three 613 sensors are required to test tracer ammunition according to AC/225.

These are set up depending on the caliber at predefined distances parallel to the line of fire.

If a tracer is detected by a sensor, an impulse is emitted.

The IMS 8500 is used to record and evaluate these signals.

Technical data

Model

	OS 613	OS 615	OS 616
Parameters			
Distance, typical	20 m	up to 5000 m	30 m to 100 m
Aperture angle	4.3 °	4 °	< 4 °
Sensitivity levels	1	variable	3
Electrical			
Operating voltage	+12 V to + 15 V		
Power consumption	approx. 50 mA		
Output impulse, digital	+10 to +12 V	+12 V	+12 V
Output impulse, analogue	-	+12 V	+ 12 V
Relay contact	•	-	-
Environmental conditions			
Working temperature	-10 °C to +60 °C		
Storage temperature	-20 °C to +75 °C		
Air humidity	≤ 80%, non-condensing		
Overall dimensions			
Length	290 mm	360 mm	530 mm
Width	100 mm	100 mm	180 mm
Height	130 mm	130 mm	100 mm
Weight	approx. 2.5 kg	approx. 3 kg	approx. 5.2 kg
for use with			
8500 Intelligent Measuring System	•	•	•
4043 velocity measurement computer	-	•	•

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