

The Insight Range - Lowest False Alarm Rates in Metal and Non-Metal Containers



Insight systems screen metal containers with class-leading performance

- False alarm rates 5-10x lower than leading competitor
- Maximum 5 second scan times
- Identify threats by chemical name
- ~10ml minimum screening volume



Best in Class Performance

The Insight Range of Bottle Screeners for liquids, aerosols and gels has been approved by ECAC for Type A and Type B use at Standard 3. Cobalt's screening technology, which uniquely identifies threats by name, also has an additional capability; accurately detecting threats in metallic containers. Insight200M and Insight100M systems have false alarm rates of ~1.5-2.5% for all container types, including metals, and retain all of the advantages of the popular and widely deployed Insight100.

Insight systems are deployed in >70 European airports, including 8 of the top 10 major hubs, with additional installations in Asia and Australasia. Extensive operational data shows alarm rates on non-metal items are consistently <1%. All Insight models have near perfect detection performance. Any remaining alarms can be resolved using the Type A screening kit (decanting into clear glass), which results in a vanishingly small number of un-cleared items.



Type A Screening Kit

False Alarm Rates for the Insight Range

Insight systems outperform their rivals in terms of detection, false alarm rate, speed and ease of use and are approved for both type B and type A use. As well as being the best available stand-alone solution, Insight systems work perfectly in combination with EDS Cabin Baggage systems such as EDS CB C3, where liquids are retained within bags, and with EDS CB C2 with type C capability.

Items	Operational Mode		False Alarm Rate
	Scan #1	Scan #2	
Non-metallic items	Type B (Insight100)	–	<1% ¹
All items (metallic and non-metallic)	Type B (Insight100M)	–	~2.5% ²
All items (metallic and non-metallic)	Type B (Insight200M)	–	~1.5% ²
Bottled water	Type B (Insight100)	–	~0.02% ³
All liquids	Type A (Insight100M)	–	<0.8% ⁴
All items (metallic and non-metallic)	Type C	Type B (Insight100M)	0.15% ^{2,5}
All items (metallic and non-metallic)	Type C	Type B + Type A (Insight100M)	<0.05% ^{2,4,5}

False alarm rates of items screened using either of the Insight100 systems (labelled Insight100) or solely Insight100M or Insight200M. Metals screening using the Insight200M yields the same (or better) results as the Insight100M.

- ¹ Operational alarm rates demonstrated in multiple EU airports
- ² Tested using the Ventress set of metallic and non-metallic items
- ³ Cobalt tests on a variety of bottled waters on >12,000 scans (see CAN019)
- ⁴ Independent testing of type A capability
- ⁵ Airport field trials conducted prior to LAGS phase 1

Further Details

Cobalt supplies the Insight200M for new system deployments. The Insight100M is available as an in-field upgrade to existing Insight100 systems. For purchase or upgrade details please contact Cobalt or your local representative.

