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Lowest False Alarm Rates in Metal and Nonmetal Containers Using the Cobalt Insight Range by Agilent

Approved **ECAC** Type B & A Standard 3

Insight Systems Screen Metal Containers with Class-Leading Performance

- False alarm rates up to 10 times lower than other manufacturers
- Maximum five second scan times
- Identify threats by chemical name
- Approximately 10 mL minimum screening volume

Best-in-Class Performance

Supplied by Agilent, the Cobalt 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. Proprietary screening technology, which uniquely identifies threats by name, also has an additional capability: accurate detection of threats in metallic containers. Insight200M systems have false alarm rates consistently better than 2 % for all container types, including metals. These systems retain all the advantages of the popular and widely deployed Insight100 range.

Insight systems are deployed at more than 70 European airports, including 8 of the top 10 major hubs, with additional installations in Africa, Asia, and Australasia. Extensive operational data show that alarm rates on nonmetal items are consistently less than 1 %. All Insight systems perform with close to perfect detection. Any remaining alarms can be resolved using the Type A screening kit (decanting into clear glass), resulting in a negligibly small number of noncleared items (Figure 1).

False Alarm Rates for Insight Systems

Insight systems are approved for both Type A and Type B use, and outperform other manufacturers' system in terms of detection, false alarm rate, speed, and ease-of-use. As well as being the best available standalone solution, Insight systems work perfectly 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.

Figure 1. Type A Screening Kit.

Further Details

Agilent 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 Agilent or your local representative.

Table 1. False alarm rates of items screened using Insight100, Insight100M, or Insight200M systems.

Items	Operational mode		False alarm rate
	Scan 1	Scan 2	
Nonmetallic items	Type B (Insight200M)	–	0.7 %[1]
All items (metallic and nonmetallic)	Type B (Insight200M)	–	Less than 2 %[1]
Bottled water	Type B (Insight100)	–	About 0.02 %[2]
All liquids	Type A (Insight100M)	–	Less than 0.8 %[3]
All items (metallic and nonmetallic)	Type C	Type B (Insight100M)	0.15 %[4,5]
All items (metallic and nonmetallic)	Type C	Type B and Type A (Insight100M)	Less than 0.05 %[3,4,5]

[1] Operational alarm rates demonstrated in multiple EU airports

[2] Agilent tests on a variety of bottled waters on >12,000 scans (see Agilent publication 5991-8872EN)

[3] Independent testing of type A capability

[4] Tested using the Ventress set of metallic and nonmetallic items

[5] Airport field trials conducted before LAGS phase 1

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