

## Fill Level Inspection - Laser -ELM-

Mapex Inspection provide a range of technologies for *Inspection, Sorting & Handling* on packaging lines. Included in the range are variety of laser based fill level inspectors – these devices use a class 1 laser to perform a highly accurate gauge of fill level performance on the production line.

The **-ELM-** is a simple, robust device configured to provide the user with all of the benefits of automated fill level inspection in an easy to use, budget priced package that can be expanded to suit individual user requirements.

### REASONS FOR FILL LEVEL INSPECTION

- Average & Minimum Contents Legislation
- Customs & Excise
- Yield
- Vacuity
- Product Integrity

### BENEFITS OF AUTOMATING INSPECTION

- Every Container Inspected
- Consistent Tolerances
- Speed
- Rejection Of Inspection Failures
- Accurate



### BENEFITS OF USING LASER

- No Direct Health & Safety Implications
- No NaCTSO priority status
- Not impacted by Glass variations
- Not impacted by Glass pigmentation
- Not impacted by Temperature variation
- Not impacted by Humidity variation
- Not impacted by Sugar Content
- Not impacted by Alcohol Content
- Fob detection available
- Modular Construction

### APPLICATIONS

- Glass Bottles
- Plastic Bottles
- Paper Labelled Bottles
- Sleeved Bottles

*Note : Entry Level LED based machine shown*

Standard Bi-Colour LED Indication

**GREEN = GOOD**

**RED = FAIL**



Note : “Good” & “Reject” Counter Option Shown

**Specification :**

**Health & Safety :** There are **no** specific Health & Safety requirements ( class 1 laser )  
 There are no specific implications for pregnant or breastfeeding women as there are with radiation ( [www.hse.gov.uk](http://www.hse.gov.uk) select “Free Leaflets” select “Radiation” select “Working safely with radiation : guidelines for expectant or breastfeeding mothers” )

**NaCTSO :** There is no National Counter Terrorism Security Office priority placed on Mapex laser based solutions; as there is on the radiological isotopes used in level gauges.

**Accuracy :** ± 0.25mm static ( may degrade dynamically due to presentation )

**Containers :** Glass / Plastic / Labelled / Sleeved Bottles

**Speed :** Rejecter dependent > 60K BPH

**Services :** Electrical; 110/240V AC 50/60Hz  
 Air: 100 psi (7 bar) via ½” BSP fitting (\*only with pneumatic rejector)

**ELM System Functionality**

:

**Standard**

- Underfill Inspection
- Bi-Colour LED display
- Reject Ram (pneumatic)
- Stainless Construction
- Elevating Mechanism
- Digital Height Gauge
- Conveyor Mounted
- Audio / Visual Alarm
- IP65

**Optional**

- Overfill Inspection
- “GOOD” and /“REJECT” Counters
- Fob Detection
- Missing Closure Detection
- Label Inspection
- Variable Speed Operation
- Filler Tube Detection
- Rejection options

The **Mapex Inspection** equipment range is designed for maximum flexibility. All equipment combines the principles of user friendliness, simplicity and robust build. Furthermore, equipment is **modular** so that it can be configured to suit specific user needs now or in the future !



# Mapex Inspection

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