

# Fact Sheet

## SealSecure T

**BIZERBA**

**Seal inspection by vision: With SealSecure you meet key criteria for an optimal product quality – a clean and undamaged seal. The system checks packages for any damaged seals. Packages which do not meet the defined criteria are automatically rejected.**



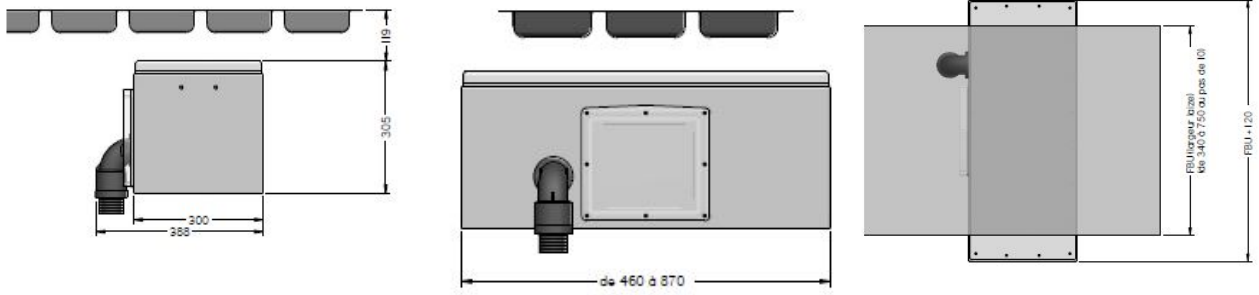
**More information**  
High performance with a wide range of solutions and options.

Specifications	Facts	Details
<b>Functions</b>	<p>Detects</p> <ul style="list-style-type: none"> <li>– Contaminations/foreign bodies in the seal on trays, flow packs and cups</li> <li>– No integrated rejection device but reporting of detected errors</li> </ul>	<p>Contaminations/foreign bodies from 1 mm<sup>2</sup></p> <p>Transmits information in two ways:</p> <ul style="list-style-type: none"> <li>– TCP/IP protocol: Sends the position information of the individual packages within the group</li> <li>– Sends digital signals to peripheral devices (printer, robot, rejector...) with package tracking up to the thermoformer output</li> </ul>
<b>Integration</b>	<p>All parameters are checked by the sensors integrated in the thermoformer.</p> <p>SealSecure T is compatible with all common thermoformers and can be used for numerous inspection tasks</p>	
<b>Versions</b>	basic	Recognizes contaminations in the seal
<b>Camera system</b>	<p>One sensor</p> <p>Line scan camera</p> <p>Protected against ambient light and manipulations</p>	<p>Sensor consists of camera, lighting, and accessories.</p> <p>The image recording field adjusts to the size of the products to be inspected. Life of LED lighting is more than 5 years.</p> <p>The pixel size (0.10 to 0.16 mm<sup>2</sup>) allows detection as from one square millimeter.</p> <p>No external influences on the inspection results</p>
<b>Dimensions</b>	<p>Sensor: 460-870 mm x 388 mm x 310 mm (L x W x H)</p> <p>Back lighting: 460-870 mm x 238 mm x 190 mm (L x W x H)</p> <p>Control cabinet on castors: 650 mm (850 mm with cooling device) x 780 mm x 1,800 mm (2,130 mm with signal lamp) (L x W x H)</p> <p>Coating to protect supply, control and communication cables between sensors, lighting and control cabinet</p>	<p>The length of the sensor housing depends on the film width (340 to 750 mm). Other lengths on request.</p> <p>The length of the housing depends on the film width (340 to 750 mm). Other lengths on request.</p> <p>Color touch screen, processing system, operating elements for the lighting, power supplies, input/output terminal blocks and connector housing</p>
<b>IP rating</b>	<p>IP66 for sensors and lighting</p> <p>IP65 for the control cabinet</p>	All optical inspection components are integrated in a tightly sealed stainless steel housing

<b>Device performance</b>	15 operating cycles per minute	Adjustable to common maximum conveyor speeds
<b>Processing system</b>	Industrial PC	<ul style="list-style-type: none"> <li>– Operating system: Windows IoT Standard 10</li> <li>– Processor Intel® Core™ i7</li> <li>– Real time image processing card</li> </ul>
<b>Interfaces</b>	USB ETHERNET	Connection to customer network via Ethernet (TCP/IP possible)
<b>Compatibility</b>	<p>Hardware integration in the thermoformer</p> <p>Compatible with most installed thermoformers or project planning in cooperation with thermoformer manufacturer</p> <p>Protocol of communication with the peripheral devices</p> <p>Printing systems, external rejection systems (retraction belt, divider, robot etc.)</p>	
<b>Power supply</b>	230 VAC; 50 Hz / 110 VAC, 60 Hz (incl. transformer) + single phase + ground uninterruptible power supply (UPS) system for computing and display units	Open to other local voltage with a transformer
<b>Ambient temperature</b>	1 °C to 35 °C	With cooling device as from 10 °C
<b>Humidity</b>	Max. 85%, non-condensing	
<b>Optical signaling device</b>	Signal lamp	Visual alarm for detection of non-conforming package
<b>By-pass mode</b>	Inspection tasks can be deactivated	
<b>Specifications</b>	<b>Facts</b>	<b>Details</b>
<b>Checks</b>	<p>Checking of product presence in a package</p> <p>Appearance and arrangement of the products in the packaging</p>	Other inspections based on feasibility upon request
<b>Production control</b>	Communication interface to the process	<p>Data transfer within the factory concerning:</p> <ul style="list-style-type: none"> <li>– System performance (monitoring of the device cycle, process data etc.)</li> <li>– Production monitoring (history of batch changes, test statistics, archiving of batch changes)</li> </ul>
<b>IP rating</b>	IP66 for the control cabinet	<ul style="list-style-type: none"> <li>– Buttons</li> <li>– Emergency stop switch</li> <li>– Display</li> </ul>
<b>US-Special current transformer</b>	115 V AC	

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## Dimensional drawings



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