

Fact Sheet

SealSecure L

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.

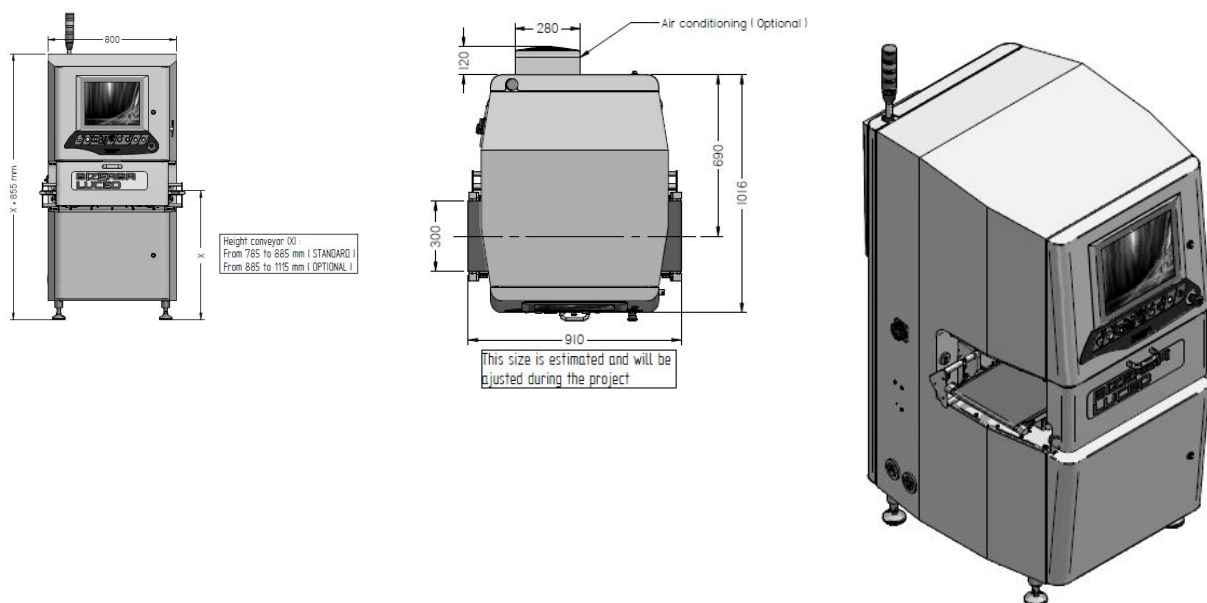


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solutions and options.

Specifications	Facts	Details
Functions	Detects <ul style="list-style-type: none"> – Contaminations/foreign bodies in the seal on trays, flow packs and cups – Poor seal quality 	Contaminations/foreign bodies from 1 mm ² Air bubbles, wrinkles in the top film
Integration	All these functions are efficiently fulfilled by one compact machine for an easy end-of-line integration. Before case packing, the stand-alone inspection machine detects defective packs and is able to reject them.	
Versions	basic pro	Detects contaminated seal Detects contaminated and poor-quality seal
Camera system	One or two sensor(s) used to check the seal for foreign body and/or the seal quality Line scan camera Protected against ambient light and manipulations	Sensor consists of camera, lighting, and accessories. The image recording field adjusts to the size of the products to be inspected. Life of LED lighting is more than 5 years. The pixel size (0.10 to 0.16 mm ²) allows detection as from one square millimeter. No external influences on the inspection results
Dimensions	910 - 1,380 mm x 1,016 mm x 1,645 - 1,965 mm (L x W x H)	Device dimensions without rejection unit Width is 1,136 mm with cooling device
Housing	Design according to hygiene requirements	<ul style="list-style-type: none"> – EHEDG certified components – Inclined surfaces for drainage of washing water – No risk of glass splinters according to the HACCP directive
IP rating	IP65	All optical inspection components are integrated in a tightly sealed stainless steel housing.
Max. conveying speed	60 m/min.	
Processing system	Industrial PC	<ul style="list-style-type: none"> – Operating system: Windows IoT Standard 10 – Processor Intel® Core™ i7 – Real time image processing card
Interfaces	USB ETHERNET	Connection to customer network via Ethernet (TCP/IP possible)

Power supply	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
Ambient temperature	1 °C to 35 °C	With cooling device as from 15 °C
Humidity	Max. 85%, non-condensing	
Maintenance	Tool-free dismantling of conveyor belts in less than one minute	
Optical signaling device	Signal lamp	Visual alarm for detection of non-conforming package
Conveying direction	left to right right to left	
By-pass mode	Switch activated with a key	Allows continuous production even in case of an operating system failure
Options	Facts	Details
Checks	<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
Production control	Communication interface to the process	<p>Data transfer within the factory concerning:</p> <ul style="list-style-type: none"> – System performance (monitoring of the device cycle, process data etc.) – Production monitoring (history of batch changes, test statistics, archiving of batch changes)
Rejection unit	Mechanical pusher	
IP rating	IP66 upgrade	<ul style="list-style-type: none"> – Buttons – Emergency stop switch – Display
US-Special current transformer	115 V AC	

Dimensional drawings



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Fact Sheet

SealSecure T

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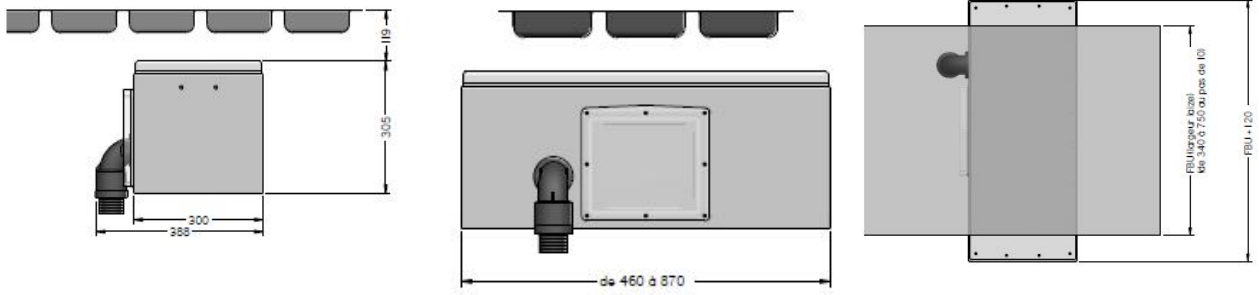


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Specifications	Facts	Details
Functions	<p>Detects</p> <ul style="list-style-type: none"> – Contaminations/foreign bodies in the seal on trays, flow packs and cups – No integrated rejection device but reporting of detected errors 	<p>Contaminations/foreign bodies from 1 mm²</p> <p>Transmits information in two ways:</p> <ul style="list-style-type: none"> – TCP/IP protocol: Sends the position information of the individual packages within the group – Sends digital signals to peripheral devices (printer, robot, rejector...) with package tracking up to the thermoformer output
Integration	<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>	
Versions	basic	Recognizes contaminations in the seal
Camera system	One sensor	Sensor consists of camera, lighting, and accessories.
	Line scan camera	The image recording field adjusts to the size of the products to be inspected. Life of LED lighting is more than 5 years.
	Protected against ambient light and manipulations	The pixel size (0.10 to 0.16 mm ²) allows detection as from one square millimeter.
Dimensions	Sensor: 460-870 mm x 388 mm x 310 mm (L x W x H)	No external influences on the inspection results
	Back lighting: 460-870 mm x 238 mm x 190 mm (L x W x H)	The length of the sensor housing depends on the film width (340 to 750 mm). Other lengths on request.
	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)	The length of the housing depends on the film width (340 to 750 mm). Other lengths on request.
	Coating to protect supply, control and communication cables between sensors, lighting and control cabinet	Color touch screen, processing system, operating elements for the lighting, power supplies, input/output terminal blocks and connector housing
IP rating	IP66 for sensors and lighting	All optical inspection components are integrated in a tightly sealed stainless steel housing
	IP65 for the control cabinet	

Device performance	15 operating cycles per minute	Adjustable to common maximum conveyor speeds
Processing system	Industrial PC	<ul style="list-style-type: none"> – Operating system: Windows IoT Standard 10 – Processor Intel® Core™ i7 – Real time image processing card
Interfaces	USB ETHERNET	Connection to customer network via Ethernet (TCP/IP possible)
Compatibility	<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>	
Power supply	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
Ambient temperature	1 °C to 35 °C	With cooling device as from 10 °C
Humidity	Max. 85%, non-condensing	
Optical signaling device	Signal lamp	Visual alarm for detection of non-conforming package
By-pass mode	Inspection tasks can be deactivated	
Specifications	Facts	Details
Checks	<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
Production control	Communication interface to the process	<p>Data transfer within the factory concerning:</p> <ul style="list-style-type: none"> – System performance (monitoring of the device cycle, process data etc.) – Production monitoring (history of batch changes, test statistics, archiving of batch changes)
IP rating	IP66 for the control cabinet	<ul style="list-style-type: none"> – Buttons – Emergency stop switch – Display
US-Special current transformer	115 V AC	

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