

INDEC VACUUM INSPECTION

## SPECIFICATIONS

Dud Dector

INDEC delivers solutions for the vacuum inspection of jars, bottles, cans and similar containers. Non-contact, 100% in-line vacuum inspection is carried out within the production process. An optical sensor measures the cap panel deflection which is dependent on the vacuum inside the container. Non-metal caps present no problem. Containers which show insufficient vacuum, cocked/tilted caps or missing caps are reliably identified and can be automatically rejected. All components are made of stainless steel (1.4404), are detergent and disinfectant-proof and comply with protection class IP69K.

Central unit	and calcula are used for The recipe routines (to Processin Control p	l unit processes the data ates the control signals for the manual entry of al parameters for the conta each-in). ng unit with vacuum test panel with colour graphic nsfers and remote maint	or the ejector. T I system-relevan ainer to be teste software al display, mem	he touch screen it data. ed are generated brane keypad a	and/or memb d and saved via nd multilingual	rane keypad programme		
	Operating	voltage	88264 VAC,	4763 Hz				
	Wattage		max. 200 W					
Rezept editieren			VD 80	VD 100	VD 300	VA 300		
lame Schwellwert Sen eptname 40	Inputs	Semi-conductor input channel 24 V DC	1	1	2	2		
ensorabstand <sup>ögerung</sup> Verzögerung 10 mm 45 mm Le		Rotary encoder input 1030 V DC	1	1	1	1		
Schweilwert und Sendeleistung e	Outputs	Semi-conductor output channel 24 VDC, 0.5 A	1	1	8	8		
	Ethernet /	USB	-	-	1/1	1/1		
	Colour gra	phics display / keys	3.5″/ 4	3.5″/ 4	5″⁄ 8	5"/ 8		
	Recipe me	mory	36	36	250	250		
	Housing m	naterial	Stainless steel (1.4404)					
4243	Ambient te	emperature	050 °C					
	Dimension	s (L x W x D) mm	300 x 200 x 120					
Connection unit	ply voltage	ess steel housing of the c and all signal leads are rried out via the connect	assigned in the					
	Dimension	s (L x W x D) mm		200 x 150 x 1	00			



Vacuum sensor	<ul> <li>Infrared sensor for non-contact testing of the vacuum-dependent deflection of a wide range of container closures made of any material. Because of the large working distance, the system is fully tolerant of varying conditions, including variations in the dimensions of the containers, vibration of the conveyor and horizontal misalignment of containers. Unlike other measuring methods, the optical INDEC system is unaffected by the presence of single water droplets.</li> <li>Fixtures for the sensor holding bracket and light barrier holding bracket</li> <li>Fast format changeover</li> <li>Settings via scale, values saved in the recipe data</li> </ul>								
	Measurement principle	Optical, infrared sensor							
	Field of application	Any kind of closure materials							
	Closure diameter	30110 mm							
	Test speed	VD 80	VD 100	VD 300	VA 300				
	max. units/minute	0600	0600	01.200	01.200				
	Working distance	> 100 mm							
	Sensor cable	3 m long, hard-wired							
	Dimensions (L x W x D) mm	150 x 150 x 80							

Ejector unit	Containers which have been identified as defective by a test system can be removed from the production flow with the ejector unit. Control and adjustment in line with container parameters is performed with the central unit.						
	<ul> <li>Complete unit consisting of:         <ul> <li>Pneumatic valve and pneumatic valve and pneumatic valve and pneumatic valve and pneumatic valve</li> <li>Compressed air service unit valve</li> <li>Pressure regulator and filter</li> <li>Adjustable holding fixture</li> </ul> </li> <li>Mounted on a base plate for eaconveyor system</li> </ul>	vith manual					
	Pneumatic connection	Plug-in coupling 6 mm					
	Electrical control	24 V DC; 50 mA					
	Operating pressure	610 bar					
	Compressed air quality Cleaned and unoiled compressed air						
	Dimensions base plate	210 x 300 mm					
	Connection cable	2 m long					



Collection tray	Stainless steel tray for rejected containers.	600 403
	Crimped edges	
	Four mounting holes	588
	Dimensions (L x W x H) mm 605 x 403 x 185	80 550

Software extension for system synchronisation including a rotary encoder which is ready for connection. A coupling and the holding bracket for the rotary encoder must be provided by the customer.							
Shaft parameters (D x L) mm	10 x 18						
Operating speed	3.600 min <sup>-1</sup>						
Pulse frequency max.	200 kHz						
Connection cable	5 m						
	A coupling and the holding brack Shaft parameters (D x L) mm Operating speed Pulse frequency max.						

Light barrier unit for product detection	Reflective light barrier complete with reflector and adjustable holding fixtures for product detection to start the measurement.						
	<ul> <li>Robust compact light barrier</li> <li>High immunity to optical inter</li> <li>Metal housing which is detergy proof and able to withstand H</li> <li>Signal intensity can be set us</li> <li>Highly visible status LEDs</li> <li>Adjustable fixture for mounting barrier holding bracket</li> <li>Holding fixtures made of rust-readjustable in a vertical and hor</li> </ul>	gent and disinfectant- nigh pressure cleaning ing a potentiometer on the sensor and light esistant stainless steel,					
	Range	Horizontal: 0100 mm Vertical: 0400 mm					



Stand for central unit and connec-	Robust, stable stand for the ce	Cap	
tion unit	Tripod base and stand tube	made of rust-resistant stainless steel	
	Levelling feet with base pla	tes made of anti-bacterial plastic	δυ
a ci la	Diameter tripod base	22000 long	
	Diameter stand tube	1 ½" (nominal diameter 48.3 mm)	P48.3x3.22
De ele	Length stand tube	Pipe Ø	

Sensor and light barrier holding bracket	Holding bracket with fixtures light barrier unit.	s for the vacuum sensor and	137
	<ul> <li>Adjustable in a vertical an</li> <li>Integrated scales</li> <li>Rust-resistant stainless stee</li> <li>Base plate with mounting</li> </ul>	el	
	Range	Horizontal: 0150 mm Vertical: 0800 mm	
	Dimensions base plate	400 x 188 mm	
Equipment			

Equipment Model	Central unit	Connection unit	Vacuum sensor	Light barrier	Sensor holding bracket	Stand	Ejector unit	Ejector monitoring	Collection tray	System synchronisation	Data transfer/ remote maintenance	Industry 4.0 preparation
VD 80*	●	•	•	Ø	Ø	Ø	O	0	Ø	Ø	0	0
VD 100	•	•	•	•	•	Ø	Ø	0	Ø	Ø	0	0
VD 300	•		•	•	•	Ø	Ø	Ø	Ø	Ø	•	
VA 300			•		•			Ø	Ø	Ø		$\bullet$

 $\star$  Necessary mounting parts/trigger sensor are provided by the customer according to KoCoS specifications



Legend: ● included ● optional O not available



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