



BBULL VK-G

Gamma Full Carton / Full Crate Inspection

PRODUCT SPECIFICATION



General

The last possible point to detect and reject incompletely packed, broken and badly filled containers is between the packer and the palletizer.

With the new **BBULL VK-G** (full carton/full crate inspection) it is possible to detect faulty cartons or crates and remove them from the production process.

BBULL VK-G scans the carton with an unperilous dose of gamma rays. (Radiation source: 241 Am 45 mCi).

This principle presents for many applications an essential advantage compared with optical systems or scales.

The gamma ray method allows an inspection of open or closed cartons at very high conveyor speeds.

When a faulty carton or crate is detected it can either be removed from the production process or an acoustic or optical alarm can be activated.

The installation, operation and service of the system is simple. The adjustment of the parameters is realized for the most part by the TEACH IN mode.

Self-diagnosis and malfunction display in plain text guarantee high reliability and easy service.

Existing systems can be easily upgraded with **BBULL VK-G**.

Application

BBULL VK-G has a wide range of applications. It is the appropriate inspection system for reliable quality assurance where bottles, cans or similar containers are packed in cartons. The system is also suitable for shrink-wrap packagings.

- inspection of completely packed cartons or crates
- empty carton inspection after the unpacker
- missing bottles and cans inspection
- inspection of broken bottles
- rough fill level inspection of bottles and cans inside the closed cartons

Mode of Operation

The system consists of a sensor bridge with height adjustment and the control unit **BBULL PC-400**. The sensor bridge is equipped with an gamma ray source and a highly advanced detector.

While passing the sensor bridge the carton or crate is scanned by harmless gamma rays. The evaluation of the sensor signals is performed by the control unit that can either energise a rejection unit or activate a signal (optical/acoustical).

Technical Data

PC based System:	6,4" Touch Screen
Power supply in volt/hertz/:	230V/50-60
Environmental temperature in degree Celsius:	5- 42
Sensor bridge measurements (BxHxD) in millimeter:	80x400x170
Sensor bridge weight in kilogramme:	55
Control unit measurements (BxHxD) in millimeter:	400x500x280
Control unit weight in kilogramme:	42,5
Building class:	steel cabinet / V2A / IP 55
Conveyor speed approx. in meter per second:	1,5
Distance from carton to carton in millimeter:	60
Running direction of the cartons:	lengthwise/crosswise
Radiation source:	Gamma Nuklid / 241 Am 45 mCi
Interface:	Ethernet, 1x seriell / RS232 / RS422 / RS485
Rejection signal	
positiv switch:	max. 24 V - 0,5 A
BDE-Interface:	upgradeable
Inputs:	6, +(8), 24V+
Outputs:	8, +(8), 24V+

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