

## ► Safe monitoring of the cardboard feed on packaging machines

# NEW



With this Pilz solution, you can increase the safety and productivity of your packaging machines! The solution is used in the cardboard feed to prevent an operator from reaching into the machine through the empty material feed opening and being injured. While there are sufficient cardboard boxes in the magazine, the cardboard boxes will cover the opening and it will be impossible to reach into the danger zone while the machine is running. The opening of the movable guard can be safeguarded as follows: if the defined minimum amount of cardboard boxes is reached or undershot in the magazine, the outputs of the programmable safety system shut down the machine. The machine remains stopped until sufficient cardboard boxes are once again filled and production can start up again. You can choose either the safe small controller PNOZmulti 2 or the modular safety relay myPNOZ. Two optical sensors are required for each feed device. You are in safe hands and reduce the downtimes of your machine with this TÜV-SÜD-certified solution.



### Your benefits at a glance

- TÜV SÜD-certified solution for PL d/Cat. 3 of EN ISO 13849-1 or SIL 2 of IEC 62061: ready-to-use solution saves costs and time
- Higher productivity of the machine: packaging material provides natural protection; fences or the like are not needed
- Cost saving: no costly mechanical devices
- Higher level of personnel safety: minimized risk of accident thanks to use of safe control technology in combination with optical sensors
- Simple integration in existing applications and retrofit possible
- High reliability in the detection of different packaging materials



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PNOZ m B0.1



PNOZmulti Configurator



myPNOZ system

Sensor  
O300.GP.2-11246332

### Technical features

- ▶ TÜV SÜD-certified solution for PL d/Cat. 3 of EN ISO 13849-1 or SIL 2 of IEC 62061
- ▶ Solution consists of:
  - The safe small controllers PNOZmulti 2 (all base units from the PNOZmulti 2 product range can be used) or
  - Modular safety relay with the type code myPNOZ.91.CKA360AB000XB700 with semiconductor outputs or myPNOZ.03.CKA360AB000XD700 with relay outputs and
  - 2 optical sensors O300.GP.2-11246332 for each cardboard feed/cardboard magazine
- ▶ Pulsed by PNOZmulti 2 or myPNOZ
- ▶ Short response times of the sensors; point/beam shape; background suppression; operating distance 30 – 100 mm; M8 4-pin connector; 12.9 mm wide
- ▶ Further information is available from the solution description under webcode web230900.

### Order number

- |  |                    |
|--|--------------------|
| ▶ PNOZ m B0/PNOZ m B0.1                            | 772 100/772 104    |
| - Plug-in spring-loaded terminals                  | 751 008            |
| - Plug-in screw terminals                          | 750 008            |
| - Chip card 8 kByte/32 kByte                       | 779 201/779 211    |
| - Mini USB cable, 3 m/5 m                          | 312 992/312 993    |
| - Software tool PNOZmulti Configurator, from V11.0 | No licensing costs |
| ▶ Safety relay myPNOZ, Creator type code           |                    |
| - myPNOZ.91.CKA360AB000XB700:                      |                    |
| PNOZ yh1/yo1/yio1 (with semiconductor outputs)     |                    |
| - myPNOZ.03.CKA360AB000XD700:                      |                    |
| PNOZ yh1/yo1/yio2 (with relay outputs)             |                    |
| ▶ Optical sensor O300.GP.2-11246332:               | Z9000039           |
| please order 2 sensors per infeed magazine         |                    |

### Accessories

- |                           |         |
|---------------------------|---------|
| ▶ e.g. straight cable 5 m | 533 121 |
|---------------------------|---------|


### Solution with safe small controller PNOZmulti 2

- ▶ Economical: all base units PNOZmulti 2 can be used.
- ▶ Open and flexible: all other application-based safety functions can also be monitored (E-STOP, safety gates etc.).
- ▶ Productive: the integrated diagnostics via PVIS with plain text messages enables the fast rectification of standstills with clear handling instructions.
- ▶ Saves costs: monitoring of several cardboard magazines possible with only one base unit, you configure one function block and use two sensors for each magazine.


### Solution with modular safety relays myPNOZ

- ▶ Can be ordered preconfigured with the myPNOZ Creator type code
- ▶ Plug and play: wired – ready for immediate use
- ▶ Simple: diagnostics via LEDs
- ▶ Flexible: monitoring of additional safety functions possible


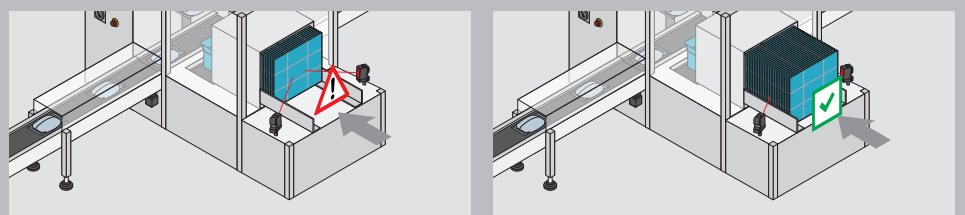
PNOZmulti 2:

 Webcode:  
web225263

myPNOZ:

 Webcode:  
web229570

Optical sensors:

 Webcode:  
web230900
Online information  
at [www.pilz.us](http://www.pilz.us)

Solution for safe monitoring of the cardboard feed –  
a tool to increase the safety and productivity of your packaging machines!