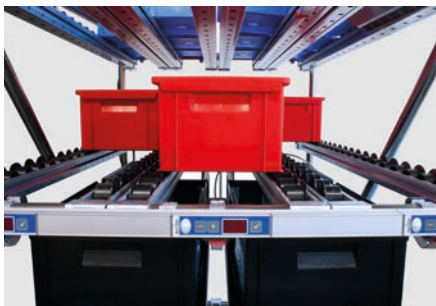


## Innovations 2022



### E-Kanban module for electronic refill controller in combination with a Put-to-Light system

With the newly developed e-Kanban sensor, automatic fill level detection can be integrated seamlessly into existing or new Pick-by-Light systems. The technology used here makes it possible that only one sensor per flow rack channel is required for fill level detection and cable guides within the flow rack channel are no longer necessary.



The container fill level is continuously monitored contact-free by a powerful distance measuring sensor. As soon as only a specified minimum number of bins is left on the shelf, the sensor reports this to the refill controller of the higher-level system.

In combination with a put-to-light module, the current status can be displayed and the refilling process optimised by providing visual support from the bright eye-catching light, thus speeding up the refilling process and preventing loading errors.

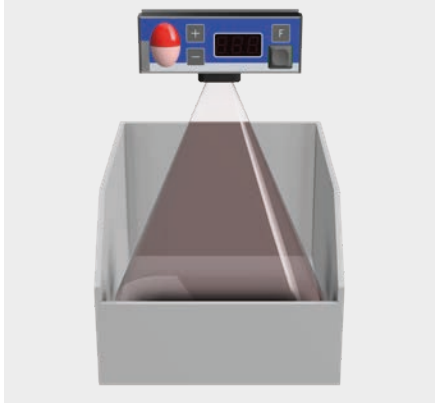
The system can be used with all common small load carrier sizes and rack types.

The new technology offers all kinds of advantages and its use is thus conceivable for various purposes. The sensor is available in different versions for the greatest possible flexibility in the application.

- **E-Kanban version**
- **Version integrated directly into the shelf display**
- **FLEX version with adjustable sensor module**
- **Wired version**, e.g. for racks where the separate attachment of sensor and shelf display is necessary.

## Innovations 2022

### New intervention sensor for withdrawal monitoring



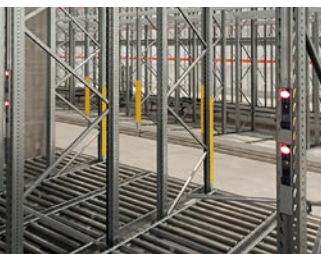
A new, modern **intervention sensor „PTF-Sentinel“** has been developed to reliably prevent incorrect picks. Its **innovative technology** enables **integration into almost all KBS pick-by-light modules**.

The sensor can be used to detect reliably a withdrawal or deposit from/into a container and to draw the employee's attention immediately to any errors (acoustically or visually). This is particularly important in assembly preparation or parts provision, where error-free order picking is essential before the wrong workpiece is processed.

The new technology **enables clear detection of an intervention**, regardless of whether it is **from the front, top or side**. It also ensures that movements outside the intervention area are not detected. The sensitivity of the sensor system and the detection range can be configured individually, thus providing particularly high flexibility.

The new Sentinel technology has a **countdown function** that serves to show or monitor the number of interventions on the display. The sensor counts down with each intervention and can thus be used to reliably detect the remaining removals.

### Vertical shelf display for installation on rack columns without horizontal mounting option



PTF-3N-5 replaces the predecessor model PTF-3N-2 and is now equipped with the modern, divided, oval eye-catching lamp. The dual light display enables the clear assignment and optimal visibility of the respective picking zone. PTF-3N-5 also offers the option to use two LED pointers (left and right) for additional compartment illumination.

The **PTF-3N-5 vertical shelf display is ideal for vertical installation** if there is no horizontal assembly option, as well as in pallet storage and in deep-freeze areas (down to  $-30^{\circ}\text{C}$ ).