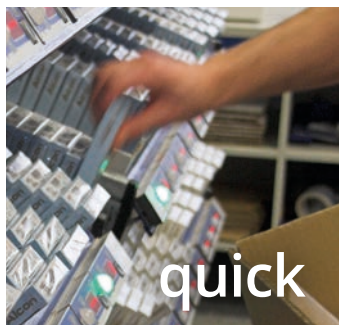


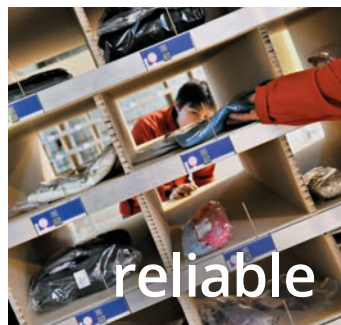
Making order picking more efficient

# PickTerm

*Flexible*



quick



reliable



flexible

Hardware

# The most important features of the PickTerm Flexible PTF shelf display



**Robust – stable aluminium casing**

Our system is made of high quality material: the carrier profiles and casings made of aluminium ensure a long service life.

**Multi-colour eye-catching lamp**

Our eye-catching lamps displays in seven colours:

**Control keys**

One or more membrane-covered control keys, freely definable via software.

**Dual LED**

Oval light divided horizontally with 2x7 colour combinations, as directional function, or for enabling two or more order pickers to work in parallel.

**Quantity correction**

Two membrane-covered correction keys for quantity corrections or inventory transactions.

**Address**

Each display has its own address in plain text and as a barcode.

**Robust confirmation button**

The especially robust confirmation button with an MTBF of 10 million picks ensures the durability of your system.

## General design features

Height	50 mm (PTF) or 25 mm (PTF-S)
LED lamp	round: 7 colours, oval: 2x7 colours
Confirmation	Per acknowledgement button (MTBF 10 Mio. Picks)
Control key	Per LTOUCH, QRS or TOUCH (PTF-S)
Assembly	Freely definable membrane-covered key
Connection	Clip technology with Snap-On system
Operating temp.	Spring technology
	-30°C to +50°C (0°C to 50°C with certain shelf displays)

## Snap-On System

The shelf displays can be fixed anywhere any time.



# Options & Features



## “Dual LED” –

### 2x7 colour combinations

The horizontally divided eye-catching lamp was developed to help the order picker to recognise the compartment allocated to the display more easily; it allows the upper and lower half, each with seven colours, to be separately controlled. This new design makes it possible to clearly indicate the retrieval position in the “upper” or “lower” part of the shelf display.

In addition, the 2x7 colour combination simplifies picking by two operators in the same zone. A further advantage: Special functions, such as return putaways or inventory processes, can be indicated even more clearly. Naturally, both halves of the lamp can be switched to show the same colour, making it even clearer and more visible from an even greater distance.

## SOUND

The Sound option sends an acoustic confirmation or alarm signal which efficiently supports the picking process.

## Improved confirmation through sensor technology

We offer our shelf displays with up to two different optional sensors to enable completely wear-free pick confirmation during the picking process and accelerate the picking performance:

## LTOUCH –

### Pick confirmation through a light touch

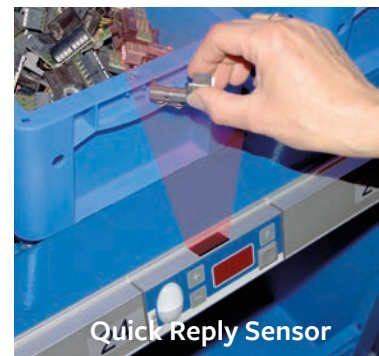
The wear-free sensor integrated into the lamp replaces the mechanical confirmation button: Instead of pressing a button, picks are confirmed by lightly touching the lamp. This accelerates the picking performance.



LTOUCH

## QRS – For contact-free confirmation

Our QuickReply sensor system, QRS for short, was developed to make confirmation easier and speed up the picking process: A sensor which can be calibrated to point up or down replaces the mechanical confirmation button. Confirmation is made through a grasping movement above or below the display – contact-free, quickly and wear-free.



Quick Reply Sensor

## LED-POINTER – For additional bin illumination

Point-to-Pick: An LED pointer mounted below or above the shelf display enables targeted illumination of the target compartments. The illumination of the bins optimises visibility. This assists to reach into the right compartment and speeds up the removal or storage processes.



LED-POINTER

## External port

An optional external port on the shelf display can be used to connect peripheral devices such as push buttons, pull-wire switches, light barriers or KANBAN sensors, which opens up new options for application.

We realise customised variations – even in small numbers.

Just give us a call – we would be happy to advise you.

# Modules

## without quantity display

### PTF-L-4

H: 50 mm x W: 35 mm

For picks always requiring the quantity one and with very small warehouse compartment dimensions.



### PTF-L-7

H: 50 mm x W: 43 mm

Options: LTOUCH QRS INPUT SOUND



### PTF-L-6

H: 50 mm x W: 70 mm

Options: LTOUCH QRS INPUT SOUND



## with numerical quantity display

### PTF-3N-4

H: 50 mm x W: 130 mm

Options: LTOUCH QRS INPUT SOUND LED-POINTER



### PTF-3N-5 | PTF-4N-3

H: 145 mm x W: 50 mm

Options: SOUND LED-POINTER



### PTF-4N-4

H: 50 mm x W: 170 mm

Options: LTOUCH QRS INPUT SOUND LED-POINTER



### PTF-6N-1

H: 50 mm x W: 212 mm

Options: SOUND



## with alphanumerical displays

### PTF-4A-1

H: 50 mm x W: 170 mm

Options:  SOUND



### PTF-6A-1

H: 50 mm x W: 212 mm

Options:  SOUND



### PTF-12M-1

H: 50 mm x W: 256 mm

Shelf display with DOT matrix, moving text possible.

Options:  LTOUCH  QRS  INPUT  SOUND



### PTF-OL-1

H: 50 mm x W: 145 mm

OLED graphic display (128x64 px) for optimum visibility from any viewing angle and multiline display.

Options:  LTOUCH  QRS  INPUT  SOUND  LED-POINTER



### PTF-EP-2

H: 50 mm x W: 145 mm

Electronic Paper Display (EPD).

Multi-line display, bar code display and QR code display.

Options:  LTOUCH  QRS  INPUT  SOUND  LED-POINTER

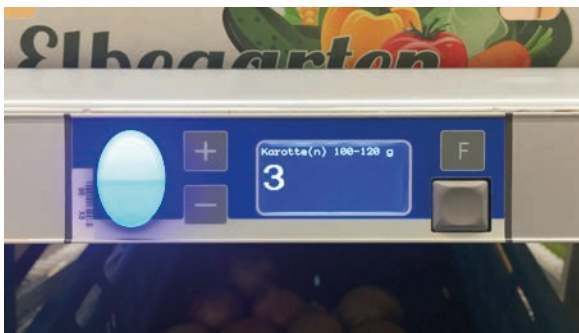
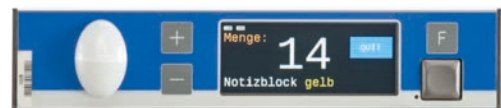


### PTF-ZDISP

H: 50 mm x W: 224 mm

Zone display with LCD graphic colour display (320x120 px), with four freely definable soft keys, 2 x USB ports (e.g. scanner).

Options:  LTOUCH  QRS  INPUT  SOUND



# Modules

## with intervention monitoring

### PTF-SENTINEL

H: 8 mm x W: 34,5 mm

Sentinel intervention sensor for withdrawal monitoring. Reliable detection and signaling of a withdrawal or deposit to avoid incorrect interventions. The intervention sensor can be integrated into almost all pick-by-light shelf displays.



## Special module

### PTF-I/O-1

H: 50 mm x W: 85 mm

I/O module with 4 inputs/ outputs for external sensors or actuators.



## Large display

### PTF-PNL-1

H: 165 mm x W: 200 mm x D: 46 mm

Interface unit for connecting up to a screen via HDMI. Used to display status quo or information.



## Compact PTF-S modules

### PTF-SL-3

H: 25 mm x W: 57 mm

Options:  QRS  SOUND



### PTF-S3N-3

H: 25 mm x W: 101 mm

Options:  QRS  SOUND



# What our customers say

## **Intuitive**

*„In the past, it took several weeks to train new employees. Now I need just five minutes to explain the principle to a new staff member, and he is off working as quickly and as efficiently as our seasoned staff.“*

– Stefan Schies, Straumann GmbH

## **Cost effective**

*„Formerly, we had to call on our previous supplier every time we wanted to change the warehouse layout. Now, we are self-sufficient thanks to the KBS snap-on solution, which saves us time and money.“*

– Hans-Peter Häußinger, MairDumont GmbH

## **Reliable**

*“We have achieved zero error picking through a simple solution: As one’s own name is distinctive, the pick-by-light displays deployed in U-shaped revolving chair assembly use each employee’s name to ‘speak’ to them. In addition, the robust metal design of the modules is convincing.“*

– Ralph Scherer, Sedus Stoll GmbH

## **Flexible**

*“Bearing in mind that space is very tight, KBS went the extra mile and developed a completely new PTF display for Roche. The colour differentiation provided by KBS’s multi-colour pick-by-light displays ensure that employees don’t choose the wrong compartment.“*

– Dirk Petri, Roche Diagnostics GmbH

## **Fast**

*“In a direct comparison with other Pick-by-Light vendors, KBS’s QuickReply solution was the winner. This solution dispenses with having to use the confirmation key on the PTF displays. Today we work faster and the quality is better.“*

– Franz Blaschke, MAN Nutzfahrzeuge GmbH

**KBS will support you in the planning and implementation.  
Just give us a call or send us an e-mail and get to know us.**

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