

# Process-optimisation systems for production logistics and shipment

Easy to retrofit. Ready to use straight out of the box.







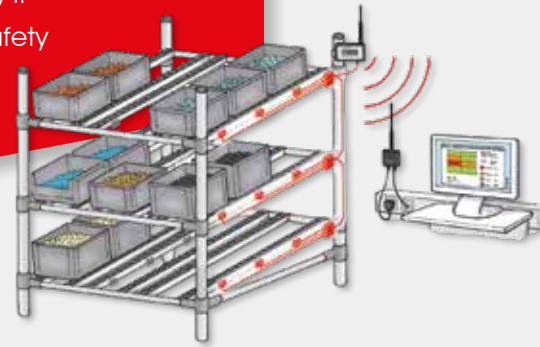
**EUROPE'S  
LEADER IN  
SIGNALLING**

**WERMA – NEW SOLUTIONS FOR LOGISTICS AND PACKING APPLICATIONS**

As the inventor of the modular signal tower, we supply **optical and audible signalling devices** for logistics and manufacturing applications. A world first – our signal towers can be transformed into intelligent **wirelessly connected call and messaging systems**. In contrast to conventional andon tools, these not only display faults, but also seamlessly **document and analyse** any malfunctions. This allows you to optimise your processes at packaging and shipping stations.

## StockSAVER

StockSAVER implements a third-generation kanban system for production logistics. This simple retrofit solution for all FIFO flow racks solves all of the typical issues with Kanban systems, creates considerably more space in production areas for value adding activities and increases cash flow. As StockSAVER provides automatic material replenishment requests, it eliminates the margin for human error and the need for line-side safety stocks.



### StockSAVER: THE THIRD-GENERATION KANBAN SYSTEM

#### First generation Kanban systems: Kanban cards

Problems: delays in handing over cards, cards are mislaid or are not collected, little transparency.

#### Second generation Kanban systems: Use of scanners

Problems: disruptions due to incorrect bookings, forgetting to scan, incorrect stock replenishment, etc. → the digital system world does not correspond with reality.

#### Third generation Kanban systems:



- Sensors determine the actual material stock levels present in the rack.
- Human errors are eliminated and the familiar Kanban problems are resolved (lack of stock is not recognised in good time, Kanban cards cannot go missing etc.).
- This makes it possible to halve the stock level in the FIFO rack.

## YOUR BENEFITS



### IMPROVE YOUR CASH FLOW

- Reduce stock levels and improve your cash-flow
- Emergency stocks no longer necessary
- Get your safety stock under control, even with a diverse range of parts



### REDUCE ERRORS

- Solve existing Kanban problems (e.g. Kanban cards being lost)
- Scanning processes are no longer required - replenishment is triggered automatically
- No duplication of bookings
- React flexibly, in real time



### HALF THE NUMBER OF FLOW RACKS

- Halve your FIFO rack area and solve your space problems
- Safety stocks no longer required (without the risk of material running out)
- More space on the assembly line
- Create space for value adding processes



### COMPLETE SOLUTION FROM A SINGLE SOURCE

- Fully configured kits (hardware and software)
- Simple commissioning and use (no external project or consultancy costs)
- Intuitive software (standalone or integrated into the company network)



## THE SYSTEM

The fully configured kits for your flow racks are delivered ready for immediate installation. StockSAVER is maintenance-free, easy to retrofit and monitors the stock levels of your FIFO flow racks as a signal point in the logistics chain. The data is transmitted wirelessly and displayed in the software which is supplied with the package. You will also profit from the long-term benefits of the analysis module, which can help you to improve your processes. The material movement data export provides the opportunity to optimise the replenishment process.

## StockSAVER - Kits and Part numbers

<b>Starter Kit 50/2</b>	<b>865.000.01</b>	Kit with Transceiver for 50 locations with 2 sensors per location (including software). Contains: 1x Transceiver, 1x SmartBOX, 50 x SensorBOXes, 100 x Sensors
<b>Starter Kit 50/4</b>	<b>865.000.02</b>	Kit with Transceiver for 50 locations with 4 sensors per location (including software). Contains: 1x Transceiver, 1x SmartBOX, 50 x SensorBOXes, 200 x Sensors
<b>Extension Kit 50/2</b>	<b>865.000.03</b>	Kit without Transceiver for 50 locations with 2 sensors per location (including software). Contains: 1x SmartBOX, 50 x SensorBOXes, 100 x Sensors
<b>Extension Kit 50/4</b>	<b>865.000.04</b>	Kit without Transceiver for 50 locations with 4 sensors per location (including software). Contains: 1x SmartBOX, 50 x SensorBOXes, 200 x Sensors
<b>Tool Kit</b>	<b>865.000.29</b>	Tool kit contains: 1x Parallel-action pliers 1x Automatic wire-stripper for BUS cable 1x Automatic wire-stripper for Sensor cable
<b>Extension Set</b>	<b>865.000.30</b>	Extension set to extend sensor cables when re-configuring locations. Contains: 30 x sensor connectors, 15 x sensor couplers
<b>Sensor Cable for Extension Set</b>	<b>865.000.33</b>	30 m

### SmartBOX

Receives the data from the SensorBOXES and transmits this to the Transceiver via a wireless network. **OPTIONAL:** If the universal interface is used (e.g. RFID or barcode scanner), the SmartBOX gives an immediate warning, on site, of misplaced items and requests a correction.

### SENSORS

Detect the number of bins and transfer this data to the SensorBOX.

### SensorBOX

Receives the sensor status of up to 4 bins per shelf location and transfers this data to the SmartBOX.

### TRANSCIEVER

Receives the status of the SmartBOXES and transfers this data to the StockSAVER software.



SOFTWARE



SENSOR



SensorBOX



SmartBOX

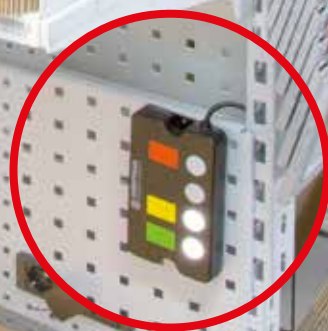


TRANSCIEVER



## AndonSPEED

With AndonSPEED you can optimise your processes for manual stations and for packaging and shipping stations. Because AndonSPEED provides a visual display of problem areas – at the push of a button. Permanent time-savings are possible thanks to quick fault correction. The system can also transfer the calls for action wirelessly to a central control station and send e-mail alerts automatically.



### Your benefits

- Rapid assistance reduces wait times
- Reduces response times and prevents shutdowns
- Quick fault repair enabling more "units per hour"



- Intelligent reporting for lasting improvements
- Optimisation potential is made transparent

### Typical applications

- Report stoppages on chutes or conveyor belts
- Manage the supply of materials to packaging stations
- Report missing items at the shipping station
- Process improvement in shipping areas

### Features

- Robust, proven wireless network for production environments
- Licence-free software is included
- Integrated analytics and reporting tools
- Ability to implement a head-of-line function, for example, with slave control





### 1. Andon Product



### 2. Wireless Networking



### 3. Signal Tower



Further accessories can be found in our current catalogue or at [www.werma.com](http://www.werma.com)



## AndonLIGHT

Provides an introduction to professional call for action systems: the easy-to-retrofit Andon products in combination with WERMA KombiSIGN 72 signal towers. With these products it is easy to improve safety and efficiency in the workplace.



## Your benefits

- Rapid assistance reduces wait times
- Reduces response times and prevents shutdowns
- Intuitive and self-explanatory light system
- More reliability and efficiency (no running around looking for help)
- It can be expanded to a wireless network system at any time

## Typical applications

- Professional signalisation of problems at the workstation
- Manage supply of materials to workstations
- Optimise processes

## Features

- Up to eight different statuses
- Signal directly on the signal tower with AndonCONTROL
- Activate signals on the signal tower with Andon SmartBOX







## TRAFFIC LIGHTS

The traffic light range provides effective and reliable signalling in single or combination lights.



### Your benefits

- Cost-effective traffic light with LEDs and clear lenses
- Easy installation in just a few steps and with any combination of 4 lights
- RGY version: reduction in number of variants by combining three colours in a single product – Ideal where space is restricted
- Additional high-output audible signalling of up to 110 dB(A) available in combination with multi-tone sound-er/vocal alarm 190
- Extremely robust: available up to IP 69K



## Traffic Light

Protection rating	IP 65
Dimensions (Ø x H)	150 mm x 154 mm
Housing	PC/ABS blend, grey
Lens	PC, transparent
Cable entry	From top or bottom with cable gland M20 x 1.5 mm or from the back with rubber grommet Ø 6-12 mm, included in assembly.
Connection	CAGE CLAMP® 0,5 - 1,5 mm <sup>2</sup>
Fixing	Base mounting, bracket mounting (accessory), tube mounting (accessory)
Installation position	As required
Life duration	Up to 50.000 h

### 890 - LED Traffic Light

Voltage:	12-24 V DC	115-230 V AC
Current consumption:	< 200 mA	< 35 mA
red	<b>890 120 55</b>	<b>890 120 68</b>
green	<b>890 220 55</b>	<b>890 220 68</b>
yellow	<b>890 320 55</b>	<b>890 320 68</b>

### 890 - LED Permanent Light RGY

Voltage:	12-24 V DC	115-230 V AC
Current consumption:	< 220 mA	< 40 mA
RGY (red, green, yellow)	<b>890 480 55</b>	<b>890 480 68</b>



## Accessories

### FIXING BRACKET

Fixing bracket for one beacon	<b>975 890 33</b>
Fixing bracket for two beacons	<b>975 890 34</b>
Fixing bracket for three beacons	<b>975 890 35</b>
Fixing bracket for four beacons	<b>975 890 37</b>

### CONNECTING GROMMET

Connecting grommet for traffic light combinations	<b>975 890 25</b>
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Nutzen Sie unsere Konfiguratoren unter [www.werma.com](http://www.werma.com), um einfach die richtige Kombination zusammenzustellen.

## Traffic Light

Protection rating	IP 69k
Dimensions (L x H x W)	2 tier: 85 mm x 309 mm x 136 mm 3 tier: 85 mm x 394 mm x 136 mm
Housing	PC-ABS, grey
Cable entry	Cable diameter max. 13 mm
Fixing	Wall mounting, tube mounting (accessory)
Connection	Screw terminal 0,5-1,5 mm <sup>2</sup>
Installation position	Vertical/hanging
Duty cycle	100 %
Life duration	Up to 50.000 h

### 894 - LED Traffic Light

Lens:	PC, clear transparent	
Voltage:	24 V DC	115-230 V AC
Current consumption:	< 60 mA (red/yellow) < 120 mA (green)	< 30 mA per tier at 230 V/50 Hz
red/green	<b>894 160 55</b>	<b>894 160 68</b>
red/yellow/green	<b>894 180 55</b>	<b>894 180 68</b>

### 894 - LED Traffic Light / Siren Combination

Lens:	PC, clear transparent	
Tone type:	Continuous tone	
Voltage:	24 V DC	115-230 V AC
Current consumption LED:	< 60 mA (red/yellow) < 120 mA (green)	< 30 mA per tier at 230 V/50 Hz
Current consumption Siren:	< 20 mA	< 30 mA at 230 V/50 Hz
red/green	<b>494 160 55</b>	<b>494 160 68</b>
red/yellow/green	<b>494 180 55</b>	<b>494 180 68</b>

### 894 - LED Traffic Light

Lens:	PC, colored transparent	
Voltage:	24 V DC	115-230 V AC
Current consumption:	< 60 mA (red/yellow)	< 30 mA per tier at 230 V/50 Hz
red/green	<b>894 060 55</b>	<b>894 060 68</b>
red/yellow/green	<b>894 080 55</b>	<b>894 080 68</b>

### 894 - LED Traffic Light / Siren Combination

Lens:	PC, colored transparent	
Tone type:	Continuous tone	
Voltage:	24 V DC	115-230 V AC
Current consumption LED:	< 60 mA (red/yellow)	< 30 mA per tier at 230 V/50 Hz
Current consumption Siren:	< 20 mA	< 30 mA at 230 V/50 Hz
red/green	<b>494 060 55</b>	<b>494 060 68</b>
red/yellow/green	<b>494 080 55</b>	<b>494 080 68</b>





**WERMA Signaltechnik GmbH + Co. KG**  
Dürbheimer Str. 15  
D-78604 Rietheim-Weilheim  
Phone +49 7424 9557-0  
Fax +49 7424 9557-44  
www.werma.com  
info@werma.com

**WERMA Signaltechnik**  
Niederlassung Neuhausen am Rhf.  
Rheingoldstrasse 50  
8212 Neuhausen am Rheinfall  
Switzerland  
Phone +41 52 674 0060  
Fax +41 52 674 0066  
www.werma.ch  
info@werma.ch

**WERMA Italia S.r.l.**  
Via dell'Artigianato 42  
29122 Piacenza  
Italia  
Mobile +39 340 4 58 07 09  
www.werma.it  
info@werma.it

**WERMA SARL**  
56, Rue Collière  
69780 Mions  
France  
Phone +33 47222 3737  
Fax +33 472 22 37 64  
www.werma.fr  
info@werma.fr

**WERMA BENELUX**  
Poortakkerstraat 41C  
9051 Sint-Denijs-Westrem  
Belgium  
Phone +32 9 220 31 11  
www.wermabenelux.com  
info@wermabenelux.com

**WERMA (UK) Ltd.**  
11 Regent Park  
37 Booth Drive  
Park Farm Industrial Estate  
Wellingborough NN8 6GR  
Great Britain  
Phone +44 1536 486930  
Fax +44 1536 514810  
www.werma.co.uk  
uksales@werma.co.uk

**WERMA USA Inc.**  
6731 Collamer Road  
East Syracuse, NY 13057 USA  
Phone +1 315 414 0200  
Fax +1 315 414 0201  
www.werma.com  
us-info@werma.com

**WERMA (Shanghai) Co., Ltd.**  
No. 8, High Technology Zone,  
No. 503, Meinengda Road,  
Songjiang, Shanghai, P. R. C  
201613  
China  
Phone +86 21 5774-0022  
Fax +86 21 5774-6601  
www.werma.com.cn  
info@werma.com.cn

**Please note:**

This is just a small selection from our product range. Further products can be found in our current catalogue or at [www.werma.com](http://www.werma.com).