



# Process-optimisation systems for production logistics and shipment

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







## 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**

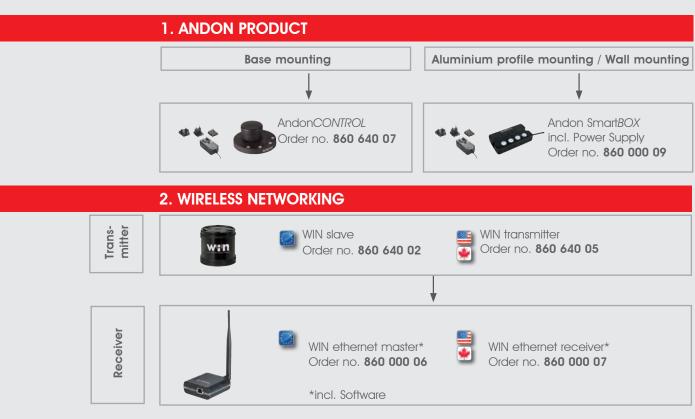
- Report stoppages on chutes or conveyor belts
- Manage the supply of materials to packaging stations
- Report missing items at the shipping station
- Process improvement in shipping areas

## **Features**

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







#### 3. SIGNAL TOWER



## **Andon***LIGHT*

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











## **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



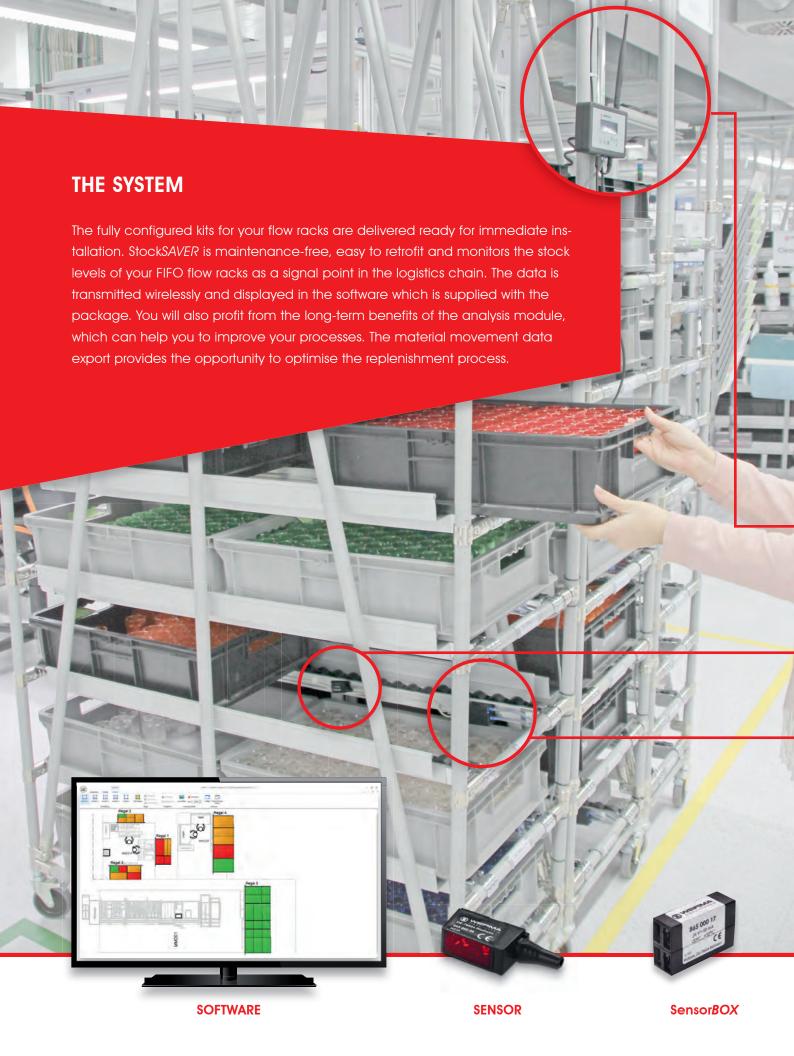
## HALF THE NUMBER OF FLOW RACKS

- 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)



StockSAVER - Kits and Part numbers			
Starter Kit 50/2	865 000 01	Kit with Transceiver for 50 locations with 2 sensors per location (including software). Contains: 1x Transceiver, 1x Smart <i>BOX</i> , 50 x SensorBOXes, 100 x Sensors	
Starter Kit 50/4	865 000 02	Kit with Transceiver for 50 locations with 4 sensors per location (including software). Contains: 1x Transceiver, 1x SmartBOX, 50 x SensorBOXes, 200 x Sensors	
Extension Kit 50/2	865 000 03	Kit without Transceiver for 50 locations with 2 sensors per location (including software).  Contains: 1x SmartBOX, 50 x SensorBOXes, 100 x Sensors	
Extension Kit 50/4	865 000 04	Kit without Transceiver for 50 locations with 4 sensors per location (including software).  Contains: 1x SmartBOX, 50 x SensorBOXes, 200 x Sensors	
Tool Kit	865 000 29	Tool kit contains: 1x Parallel-action pliers 1x Automatic wire-stripper for BUS cable 1x Automatic wire-stripper for Sensor cable	
Extension Set	865 000 30	Extension set to extend sensor cables when re-configuring locations, Contains: 30 x sensor connectors, 15 x sensor couplers	
Sensor Cable for Extension Set	865 000 33	30 m	
Place by Light	865 000 34	Kit includes: 25 Lights with corresponding connectors and installation meterial	

## **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.





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 $\emptyset$ 6-12 mm, included in assembly.
Connection	CAGE CLAMP® 0,5 - 1,5 mm²
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	890 120 55	890 120 68
green	890 220 55	890 220 68
yellow	890 320 55	890 320 68

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

Accessories	
FIXING BRACKET	
Fixing bracket for one beacon	975 890 33
Fixing bracket for two beacons	975 890 34
Fixing bracket for three beacons	975 890 35
Fixing bracket for four beacons	975 890 37
CONNECTING GROMMET	
Connecting arommet for traffi c light combinations	975 890 25

Use our configurators at **www.werma.com** to put together the right tower quickly and easily.

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)	at 230 V/50 Hz	
red/green	894 160 55	894 160 68	
red/yellow/green	894 180 55	894 180 68	

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)	at 230 V/50 Hz	
Current consumption Siren:	< 20 mA	< 30 mA at 230 V/50 Hz	
red/green	494 160 55	494 160 68	
red/yellow/green	494 180 55	494 180 68	

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	894 060 55	894 060 68	
red/yellow/green	894 080 55	894 080 68	

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	494 060 55	494 060 68	
red/yellow/green	494 080 55	494 080 68	

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