



ROAD SAFETY SOLUTIONS.



# WE POINT THE WAY

MOBILE WARNING SYSTEMS  
2019/2020



**WE MAKE  
THE ROADS  
A SAFER  
PLACE**



Dear customers, partners and prospective customers,

Warning and barrier systems are among the most important safety devices in road transportation – whether for short-term construction sites, minor road repairs or landscaping maintenance work. These systems play a critical role, particularly for work sites on motorways, expressways or federal roads. When you choose Nissen solutions, you choose uncompromising quality with tried-and-tested features. These includes for example warning lamps that require only one LED thanks to precisely calculated optical surfaces. These lamps require very little energy and ensure especially long operating times. Also all systems are operated by using our practical, intuitive, user friendly remote control with a large full colour touchscreen display. Thanks to our extensive range of accessories, we can adapt our solutions to your needs. However, don't take our word for it, just look at our warning trailers, warning boards, light arrows and roof structures they speak for themselves.

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*Head of Human Resources and Finance and Shareholder*

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*Managing Director and Shareholder*

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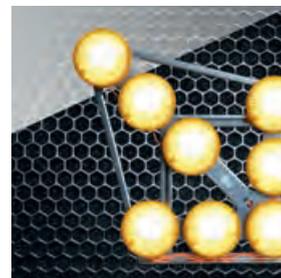


# WE PROVIDE THE SOLUTION



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# WE STAND FOR HIGHEST QUALITY

Nissen is the world's leading supplier of mobile traffic safety solutions. Our name stands for tried-and-tested, advanced technology like no other.

Traffic volume around the world is increasing, which makes safety systems all the more important. This is why quality plays an outstanding role, particularly when it comes to high-speed roads like motorways and expressways. Nissen manufactures barrier and warning devices to the highest standards. Everything comes from our own production, from the steel profile frames for our trailers, to the precision-calculated

lenses for our warning lamps.

We assemble these in our main factory in Tönning and put them through extensive testing. In this way we can offer solutions that guarantee the safety of people and goods.



Our quality management has been certified since 1995 according to **DIN EN ISO 9001** and our environmental management since 2014 according to **DIN EN ISO 14001**.



# WE SET THE STANDARD

## When safety comes from responsibility

When it comes to mobile traffic safety, planning and selecting the right materials are critical. When you choose Nissen, you are choosing products that meet the highest quality standards and the strictest guidelines. This becomes clear from the following:



### **BAST**

The BAST seal indicates that the product has been tested by the Federal Highway Research Institute in accordance with the applicable regulations and is therefore approved for use on German roads.



### **TL (RSA) approved**

The technical delivery conditions (TL) specify the requirements for the respective products. They are the basis for the tests, e.g. through the BAST.



### **EN 12352**

This standard defines the requirements for warning lights on a European basis.



### **TrafficManager**

Products can be monitored and controlled with the Software Traffic Manager.

# A shining example of quality and function

Nissen lighting systems are suitable for a wide range of applications and are characterized by innovative features and reliable quality. All lights correspond to the classes defined by the RSA and/or European standards.

Class		Light surface in cm <sup>2</sup>	Opening angle		Luminosity	
D	EN		Horizontal	Vertical	Min. in cd	Max. in cd
	L1	(see EN 12352, 4.1.2)	300°	+5° to -5°	1	100
	L2L	> 18	+7° to -7°	+7° to -7°	25	100
	L2H	> 18	+7° to -7°	+7° to -7°	150	1,500
	L3	> 75	+10° to -10°	+5° to -5°	2	100
	L4 (F2)	> 140	+10° to -10°	+5° to -5°	43	100
	L5	> 140	+2° to -2°	+2° to -2°	500	2,000
WL2	L6	> 2 x 250	+10° to -10°	+5° to -5°	10	100
WL1	L7	> 250	+10° to -10°	+5° to -5°	20	100
WL3	L8G	> 250	+7,5° to -7,5°	+5° to -5°	25	100
WL4	L8L	> 250	+7,5° to -7,5°	+5° to -5°	250	500
WL6	L8M	> 250	+7,5° to -7,5°	+5° to -5°	500	1,500
WL6	L8H	> 250	+7,5° to -7,5°	+5° to -5°	1,500	5,000
WL7	L9L	> 700	+1,5° to -1,5°	+1,5° to -1,5°	500	2,000
WL5	L9M	> 700	+1,5° to -1,5°	+1,5° to -1,5°	2,000	8,000
WL7	L9H	> 700	+1,5° to -1,5°	+1,5° to -1,5°	20,000	40,000
WL8	-	> 30	360°	+5° to -5°	4	-



# WE KNOW WHAT WE ARE DOING

## **Infinitely variable brightness adjustment**

By law, the warning lamps must have a sensor to automatically reduce their lighting intensity. This prevents blinding drivers in the dark. Nissen warning lamps have a continuous brightness adjustment that reacts one-to-one to the external light conditions, even in bad weather. This technology surpasses the legal requirements and leads to even greater energy savings.

## **Remote controls with range**

Bluetooth is an industry standard for wireless data transmission between devices over short and medium distances. Compared to other standards, Bluetooth is very stable, insensitive to reflections and allowing the parallel operation of several systems. This makes it possible to control several warning trailers with one remote control. Another advantage: Bluetooth modules from Nissen have an extremely long range.

## **Active monitoring**

A fully functioning warning trailer is essential to safety. This includes the correct display and full visibility of the given traffic signal, in particular. To guarantee this, the operating information is transmitted to the remote control continuously. This way the staff working in front of the system can react early to any problems.

## **Efficient energy management**

Nissen lamps consume little energy, thanks to their optimal optical design. A dimmer switch and automatic brightness adjustment reduce power consumption and increases safety even more. An operating hours meter ensure that partially discharged batteries are not charged too soon, which enables the system to use their



capacities optimally. This also extends their service life. Important: For a maximum battery life, a combination with the correct charger is crucial. We would be happy to advise you.

#### **Powerful batteries**

Our systems operate on gel batteries (closed lead acid batteries, in which the acid is bound with silicic acid). They are easy to transport and will not leak, even in a slanted position. They retain their high capacity, are practically maintenance-free and even tolerate deep discharges better. A special charger prevents overcharging. Thanks to their longer life, gel batteries are more environmentally friendly than the traditional lead-acid batteries.

#### **Variable drawbar**

Thanks to the height-adjustable drawbars, you can transport your trailers safely with any vehicle. Whether it is a combination truck, a small truck or a transport truck, or if the towing equipment is high or low, the connection is always parallel to the drawbar. This ensures the optimal functioning of the brakes and steering. DIN towing eye and spherical head coupling can be changed in a twinkling of an eye.

#### **Tested quality**

Nissen produces its products in accordance with CE quality standards and moreover with the EU Machinery Guidelines. This ensures a uniformly high level of accident prevention across Europe. We are committed to the advancing of these and other guidelines, making an important contribution to improving road safety.

Warning trailers for roads without oncoming traffic

# A SERIES

Benefit from our modular and individually configurable trailers with extremely long operating times and load capacities up to 1,2 tons.

Comparison	A1	A2	A31	A41	A51
Perm. total weight	750–1300 kg	1300–1500 kg	1300–1500 kg	2000–2500 kg	3500 kg
Empty weight	550–790 kg	620–890 kg	850–1020 kg	950–1150 kg	1600–1800 kg
Load capacity	200–510 kg	610–680 kg	450–480 kg	1050–1350 kg	1700–1900 kg
Loading area (L x W)	1380 x 1630 mm	1860 x 1630 mm	2750 x 1830 mm	3100 x 1830 mm	5200 x 2000 mm
Total length	3900–4630 mm	4660–5000 mm	5950–6100 mm	6700–7000 mm	8950–9260 mm
Track width	2000 mm	2000 mm	2200 mm	2200 mm	2200 mm
Loading ramp	no	optional	yes	yes	yes





## **ROBUST MODULAR DESIGN**

Welded chassis and steel frame from our own production facilities

## **CORROSION PROTECTION**

Chassis, drawbar and frame completely galvanized

## **OPTIMAL CONSTRUCTION**

High-grade quality components for permanently safe operation, maintenance-friendly design

## **STABLE WARNING TRAILER**

With traffic sign 616-30 as per RSA 95 and ZTV-SA with retroreflective foil (3600 x 2200 mm); country-specific traffic signs on request

## **LIGHT ARROW DEVICE**

With two energy-saving warning lamps as well as 25 energy-saving and individually monitored warning lamps

## **SIMPLE OPERATION**

Change the direction of the light arrow and the directional arrow with motor revolution with the remote control; uniform operating concept

## **LONG SERVICE LIFE**

Standard up to 80 hours daily operation – (more as an option)

## **MOBILE TELEMATICS**

All products in this series are fully compatible with the Software Traffic Manager.

# Warning Trailer

# A1



## CHASSIS AND BODY

- Modular design, separately bolted, galvanized and interchangeable
- Galvanized, height-adjustable drawbar (AI-Ko) with holding brake
- DIN towing eye and with a changeable spherical head coupling
- Loading area of 15 mm 7 layered laminated plywood sheets with sealed edges
- Side panels of 15 mm 7 layered laminated plywood covered with aluminium sheet profil at the top
- Height-adjustable support wheel
- Robust plastic fenders
- Battery box of plastic (1660 x 450 x 320 mm)
- Braked rubber spring axle
- 4 lashing points (straps) with 400 daN
- 2 fully adjustable support legs
- Handle for one-handed opening/closing of battery box



## WARNING BOARD

- Warning board in compliance with RSA 95 and ZTV-SA incl. traffic sign 616-30 StVO (road traffic regulations), 3600 x 2200 mm
- Chevron patterned plates and directional arrow with microprismatic retro-reflective foil, type RA2C
- Luminous arrow system with two LED-TL advance warning lamps (WL5) and 25 separately monitored LED-TL warning lamps (WL6)
- Directional arrow with motor revolution, mechanical emergency adjustment and automatic luminous arrow adjustment
- Motorized lifting and lowering of the top board with mechanical emergency adjustment and freely accessible emergency-off switch
- Combined manual radio-cable control for activating all functions via touchscreen and one-touch keys



## ELECTRICAL SYSTEM

- Rechargeable battery 12 V, up to 80 hours daytime operation (further energy packages on request)
- Trailer lighting optionally 12 V and/or 24 V
- Feed socket 230 V

## ACCESSORIES AND OPTIONS

- Battery guard for protection of electronics
- Cargo securing set
- Central crank supports
- Acoustic signalling device for manual control
- Control and monitoring system

### Technical data

Total length	3900 - 4630 mm
Total width	2200 mm
Track width	2000 mm
Loading area (LxW)	1380 x 1630 mm
Side boards (H)	300 mm
Total weight	750 - 1300 kg
Empty weight depending on model	550 - 790 kg
Max. load capacity	200 - 510 kg

### Warning Trailer Type A1 in modular construction

### Ref. No.

Warning Trailer Type A1 in modular construction  
without light arrow combination

129 717-001



More information  
NIS-01216  
To be entered on nissen-germany.com



# Warning Trailer

# A2



## CHASSIS AND BODY

- Modular design, separately bolted, galvanized and interchangeable
- Galvanized, height-adjustable drawbar (AI-Ko), holding brake
- DIN towing eye and with a changeable spherical head coupling
- Loading area of 15 mm 7 layered laminated plywood sheets with sealed edges
- Side panels of 15 mm 7 layered laminated plywood covered with aluminium sheet profil at the top
- Height-adjustable semi-automatic support wheel
- Robust plastic fenders
- Battery box of plastic (1660 x 450 x 320 mm)
- Braked rubber spring axle
- 4 lashing points (straps) with 400 daN
- 2 fully adjustable support legs
- Handle for one-handed opening/closing of battery box



## WARNING BOARD

- Warning board in compliance with RSA 95 and ZTV-SA incl. traffic sign 616-30 StVO (road traffic regulations), 3600 x 2200 mm
- Chevron patterned plates and directional arrow with microprismatic retro-reflective foil, type RA2C
- Luminous arrow system with two LED-TL advance warning lamps (WL5) and 25 separately monitored LED-TL warning lamps (WL6)
- Directional arrow with motor revolution, mechanical emergency adjustment and automatic luminous arrow adjustment
- Motorized lifting and lowering of the top board with mechanical emergency adjustment and freely accessible emergency-off switch
- Combined manual radio-cable control for activating all functions via touchscreen and one-touch keys



## ELECTRICAL SYSTEM

- Rechargeable battery 12 V, up to 80 hours daytime operation (further energy packages on request)
- Trailer lighting optionally 12 V and/or 24 V
- Feed socket 230 V

## ACCESSORIES AND OPTIONS

- Battery guard for protection of electronics
- Cargo securing set
- Central crank supports
- Acoustic signalling device for manual control
- Control and monitoring system
- Loading ramp surfaced with aluminium chequered plate

### Technical data

Total length	4660 - 5000 mm
Total width	2200 mm
Track width	2000 mm
Loading area (LxW)	1860 x 1630 mm
Side boards (H)	300 mm
Total weight	1300 - 1500 kg
Empty weight depending on model	620 - 890 kg
Max. load capacity	610 - 680 kg

### Warning Trailer Type A2 in modular construction

Ref. No.

Warning Trailer Type A2 in modular construction  
without light arrow combination

129 717-002



More information  
NIS-01218  
To be entered on nissen-germany.com



# Warning Trailer

# A31



## CHASSIS AND BODY

- Modular design, separately bolted, galvanized and interchangeable
- Galvanized, height-adjustable drawbar (AI-Ko), with overrun brake, holding brake and parallel adjustment
- DIN towing eye and with a changeable spherical head coupling
- Loading ramp surfaced with aluminium chequered plate
- Loading area of 15 mm 7 layered laminated plywood sheets with sealed edges
- Side panels of 15 mm 7 layered laminated plywood covered with aluminium sheet profil at the top
- Height-adjustable semi-automatic support wheel
- Robust plastic fenders
- 2 battery boxes of steel with aluminium chequered plate cover (550 x 380 x 300 mm)
- Support frame for the drawbar of a loaded advance warning board
- Braked rubber spring axle
- 6 lashing points (straps) with 400 daN
- 2 fully adjustable support legs

## WARNING BOARD

- Warning board in compliance with RSA 95 and ZTV-SA incl. traffic sign 616-30 StVO (road traffic regulations), 3600 x 2200 mm
- Chevron patterned plates and directional arrow with microprismatic retro-reflective foil, type RA2C
- Luminous arrow system with two LED-TL advance warning lamps (WL5) and 25 separately monitored LED-TL warning lamps (WL6)
- Directional arrow with motor revolution, mechanical emergency adjustment and automatic luminous arrow adjustment
- Motorized lifting and lowering of the top board with mechanical emergency adjustment and freely accessible emergency-off switch
- Combined manual radio-cable control for activating all functions via touchscreen and one-touch keys

## ELECTRICAL SYSTEM

- Rechargeable battery 12 V, up to 80 hours daytime operation (further energy packages on request)
- Trailer lighting optionally 12 V and/or 24 V
- Feed socket 230 V



## ACCESSORIES AND OPTIONS

- Battery guard for protection of electronics
- Repeater of the vehicle lighting
- Cargo securing set
- Central crank supports
- Acoustic signalling device for manual control
- Control and monitoring system
- Manual or electrical cable winch
- Loading aid incl. hopper opening
- Firm rear frame

## Technical data

Total length	5950 - 6100 mm
Total width	2400 mm
Track width	2200 mm
Loading area (LxW)	2750 x 1830 mm
Clearance width	1830 mm
Clearance height	1878 mm
Side boards (H)	300 mm
Total weight	1300 - 1500 kg
Empty weight depending on model	850 - 1020 kg
Max. load capacity	450 - 480 kg

Warning Trailer Type A31 in modular construction

Ref. No.

Warning Trailer Type A31 in modular construction

129 717-031



# Warning Trailer

# A41



## CHASSIS AND BODY

- Modular design, separately bolted, galvanized and interchangeable
- Galvanized, height-adjustable drawbar (AI-Ko), with overrun brake, holding brake and parallel adjustment
- DIN towing eye and with a changeable spherical head coupling
- Loading ramp surfaced with aluminium chequered plate
- Loading area of 15 mm 7 layered laminated plywood sheets with sealed edges
- Side panels of 15 mm 7 layered laminated plywood covered with aluminium sheet profil at the top
- Height-adjustable semi-automatic support wheel
- Robust plastic fenders
- 2 battery boxes of steel with aluminium chequered plate cover (850 x 630 x 300 and 950 x 630 x 300 mm)
- Support frame for the drawbar of a loaded advance warning board
- Manual cable winch with a hook and 10 m of cable
- Rubber spring axle with a tandem brake design
- 6 lashing points (straps) with 400 daN
- 2 fully adjustable support legs
- Loading aid incl. hopper opening

## WARNING BOARD

- Warning board in compliance with RSA 95 and ZTV-SA incl. traffic sign 616-30 StVO (road traffic regulations), 3600 x 2200 mm
- Chevron patterned plates and directional arrow with microprismatic
- retro-reflective foil, type RA2C
- Luminous arrow system with two LED-TL advance warning lamps (WL5) and 25 separately monitored LED-TL warning lamps (WL6)
- Directional arrow with motor revolution, mechanical emergency adjustment and automatic luminous arrow adjustment
- Motorized lifting and lowering of the top board with mechanical emergency adjustment and freely accessible emergency-off switch
- Combined manual radio-cable control for activating all functions via touchscreen and one-touch keys

## ELECTRICAL SYSTEM

- Rechargeable battery 12 V, up to 80 hours daytime operation (further energy packages on request)
- Trailer lighting optionally 12 V and/or 24 V
- Feed socket 230 V



## ACCESSORIES AND OPTIONS

- Battery guard for protection of electronics
- Repeater of the vehicle lighting
- Cargo securing set and central crank supports
- Acoustic signalling device for manual control
- Control and monitoring system
- Firm rear frame

## Technical data

Total length	6700 - 7000 mm
Total width	2400 mm
Track width	2200 mm
Loading area (LxW)	3100 x 1830 mm
Clearance width	1830 mm
Clearance height	1878 mm
Side boards (H)	300 mm
Total weight	2000 - 2500 kg
Empty weight depending on model	950 - 1150 kg
Max. load capacity	1050 - 1350 kg

## Warning Trailer Type A41 in modular construction

Ref. No.

Warning Trailer Type A41 in modular construction

129 717-041



# Warning Trailer A51



## CHASSIS AND BODY

- Modular design, separately bolted, galvanized and interchangeable
- Galvanized, height-adjustable drawbar (AI-Ko), with overrun brake, holding brake
- DIN towing eye and with a changeable spherical head coupling
- Loading ramp surfaced with aluminium chequered plate
- Loading area of 15 mm 7 layered laminated plywood sheets with sealed edges
- Side panels of 15 mm 7 layered laminated plywood covered with aluminium sheet profile at the top
- The height-adjustable semi-automatic support wheel
- Robust plastic fenders
- 2 battery boxes of steel with aluminium chequered plate cover (950 x 630 x 300)
- 3 support frames for the drawbar of a loaded advance warning trailer
- Motorized cable winch with a hook and 10 m of cable
- Rubber spring axle with a tandem brake design
- 6 lashing points (straps) with 400 daN
- 2 fully adjustable support legs
- Loading aid incl. hopper opening

## WARNING BOARD

- Warning board in compliance with RSA 95 and ZTV-SA incl. traffic sign 616-30 StVO (road traffic regulations), 3600 x 2200 mm
- Chevron patterned plates and directional arrow with micro-prismatic retro-reflective foil, type RA2C
- Luminous arrow system with two LED-TL advance warning lamps (WL5) and 25 separately monitored LED-TL warning lamps (WL6)
- Directional arrow with motor revolution, mechanical emergency adjustment and automatic luminous arrow adjustment
- Motorized lifting and lowering of the top board with mechanical emergency adjustment and freely accessible emergency-off switch
- Combined manual radio-cable control for activating all functions via touchscreen and one-touch keys

## ELECTRICAL SYSTEM

- Rechargeable battery 12 V, up to 80 hours daytime operation (further energy packages on request)
- Battery guard for electronic protection
- Repeater for the vehicle lighting
- Trailer lighting optionally 12 V and/or 24 V
- Feed socket 230 V
- Battery charger



## ACCESSORIES AND OPTIONS

- Cargo securing set
- Central crank supports
- An acoustic signalling device for manual control
- Control and monitoring system
- LED Light Arrow LP8 with holder
- Spare wheel with holder and speed bump holder

## Technical data

Total length	8950 - 9260 mm
Total width	2430 mm
Track width	2200 mm
Loading area (LxW)	5200 x 2000 mm
Clearance width	1830 mm
Clearance height	1878 mm
Total weight	3500 kg
Empty weight depending on model	1600 - 1800 kg
Max. load capacity	1700 - 1900 kg

## Warning Trailer Type A51 in modular construction

Ref. No.

Warning Trailer Type A 51 in modular construction

129 717-051



# Warning trailers for roads without oncoming traffic

# B SERIES

Take advantage of modular and individually configurable trailers with extremely long operating times and load capacities up to 800 kg.

Comparison	B1	B2	B3	B4
Perm. total weight	750 kg	750–1000 kg	1300 kg–1500 kg	2000–2500 kg
Empty weight	350 kg	400 kg	590–960 kg	1000 kg
Load capacity	400 kg	350–600 kg	540–710 kg	1000–1500 kg
Loading area (L x W)	-	1750 x 1050 mm	2600 x 1540 mm	3505 x 1540 mm
Total length	4200 mm	4200 mm	5360 mm	5928 mm
Track width	1400 mm	1400 mm	1900 mm	1900 mm
Loading ramp	no	no	yes	yes





## ROBUST MODULAR DESIGN

Welded chassis and steel frame from our own production facilities

## CORROSION PROTECTION

Chassis, drawbar and frame completely galvanized

## OPTIMAL CONSTRUCTION

High-grade quality components for permanently safe operation, maintenance-friendly design

## STABLE WARNING TRAILER

With traffic sign 616-31 as per RSA 95 and ZTV-SA with retroreflective foil (2500 x 1700 mm); country-specific traffic signs on request

## LIGHT ARROW DEVICE

With two energy-saving warning lamps as well as 15 energy-saving and individually monitored warning lamps

## AVAILABLE AS AN OPTION

Warning trailer with traffic sign 615 as per RSA 95 and ZTV-SA with retroreflective foil and 3 warning lights (2500 x 1700 mm)

## SIMPLE OPERATION

Change the direction of the light arrow and the directional arrow with motor revolution with the remote control; uniform operating concept



## LONG SERVICE LIFE

Standard up to 80 hours daily operation – (more as an option)

## LOCATION-INDEPENDENT

Control via simple connection to web-based applications

# Warning Trailer

# B1



## CHASSIS AND BODY

- Chassis and body of galvanized steel
- Galvanized, height-adjustable drawbar (AI-Ko), with overrun brake, holding brake and parallel adjustment
- DIN towing eye and with a changeable spherical head coupling
- Height-adjustable semi-automatic support wheel
- Robust plastic fenders
- Battery box of plastic (750 x 340 x 320 mm)
- Braked rubber spring axle
- 2 fully adjustable support legs

## WARNING BOARD

- Warning board in compliance with RSA 95 and ZTV-SA incl. traffic sign  
615-31 StVO (road traffic regulations), 2500 x 1700 mm
- Chevron patterned plates and directional arrow with microprismatic retro-reflective foil, type RA2C
- Luminous arrow system with 3 LED-TL advance warning beacons (WL5)
- Directional arrow with manual revolution, mechanical emergency adjustment and automatic luminous arrow adjustment
- Manual lifting and lowering of the top board with mechanical emergency adjustment and freely accessible emergency-off switch
- Manual cable or radio control for operating all functions via one-touch keys

## ELECTRICAL SYSTEM

- Rechargeable battery 12 V, up to 55 hours daytime operation (further energy packages on request)
- Trailer lighting optionally 12 V and/or 24 V
- Feed socket 230 V
- Battery charger

## ACCESSORIES AND OPTIONS

- Battery guard for protection of electronics
- Central crank supports
- Control and monitoring system
- Warning board in compliance with RSA 95 and ZTV-SA incl. traffic sign  
616-31 StVO (road traffic regulations)
- Directional arrow with motor revolution, mechanical emergency adjustment and automatic luminous arrow adjustment
- Motorized lifting and lowering of the top board



### Technical data

Total length	4200 mm
Total width	1700 mm
Track width	1400 mm
Total weight	750 kg
Empty weight depending on model	350 kg
Max. load capacity	400 kg

### Warning Trailer Type B1

### Ref. No.

Warning Trailer Type B 1, without light warning system

129 700-001

# Warning Trailer

# B2



## CHASSIS AND BODY

- Chassis and body of galvanized steel
- Galvanized, height-adjustable drawbar (AI-Ko), with overrun brake, holding brake and parallel adjustment
- DIN towing eye and with a changeable spherical head coupling
- Loading area of 15 mm 7 layered laminated plywood sheets with sealed edges
- Side panels of 15 mm 7 layered laminated plywood covered with aluminium sheet profil at the top
- Height-adjustable semi-automatic support wheel
- Robust plastic fenders
- Battery box integrated into the side panel design incl. cover of aluminium chequered plate (1000 x 400 x 300 mm)
- Braked rubber spring axle
- 4 lashing points (straps) with 400 daN
- 2 fully adjustable support legs



## WARNING BOARD

- Warning board in compliance with RSA 95 and ZTV-SA incl. traffic sign 616-31 StVO (road traffic regulations), 2500 x 1700 mm
- Chevron patterned plates and directional arrow with microprismatic retro-reflective foil, type RA2C
- Luminous arrow system with two LED-TL advance warning beacons (WL5) and 15 separately monitored LED-TL warning beacons (WL6)
- Directional arrow with motor revolution, mechanical emergency adjustment and automatic luminous arrow adjustment
- Manual lifting and lowering of the top board with mechanical emergency adjustment and freely accessible emergency-off switch
- Manual cable or radio control for operating all functions via one-touch keys



## ELECTRICAL SYSTEM

- Rechargeable battery 12 V, up to 55 hours daytime operation (further energy packages on request)
- Trailer lighting optionally 12 V and/or 24 V
- Feed socket 230 V
- Battery charger

## ACCESSORIES AND OPTIONS

- Battery guard for protection of electronics
- Cargo securing set
- Central crank supports
- Control and monitoring system
- Warning board in compliance with RSA 95 and ZTV-SA incl. traffic sign 615-31 StVO (road traffic regulations)
- Motorized lifting and lowering of the top board

### Technical data

Total length	4200 mm
Total width	1700 mm
Track width	1400 mm
Loading area (LxW)	1750 x 1050 mm
Side boards (H)	300 mm
Total weight	750 - 1000 kg
Empty weight depending on model	400 kg
Max. load capacity	350 - 600 kg

### Warning Trailer Type B2

Warning Trailer Type B 2, without light warning system

### Ref. No.

129 700-002



# Warning Trailer

# B3



## CHASSIS AND BODY

- Chassis and body of galvanized steel
- Galvanized, height-adjustable drawbar (Al-Ko), with overrun brake, holding brake and parallel adjustment
- DIN towing eye and with a changeable spherical head coupling
- Loading ramp surfaced with aluminium chequered plate
- Loading area of 15 mm 7 layered laminated plywood sheets with sealed edges
- Side panels of double-walled aluminium with interior reinforcement bars
- Height-adjustable semi-automatic support wheel
- Robust plastic fenders
- Battery box integrated into the side panel design incl. cover of aluminium chequered plate (1580 x 450 x 300 mm)
- Braked rubber spring axle
- 6 lashing points (straps) with 400 daN
- 2 fully adjustable support legs



## WARNING BOARD

- Warning board in compliance with RSA 95 and ZTV-SA incl. traffic sign 616-31 StVO (road traffic regulations), 2500 x 1700 mm
- Chevron patterned plates and directional arrow with microprismatic retro-reflective foil, type RA2C
- Luminous arrow system with two LED-TL advance warning beacons (WL5) and 15 separately monitored LED-TL warning beacons (WL6)
- Directional arrow with motor revolution, mechanical emergency adjustment and automatic luminous arrow adjustment
- Manual lifting and lowering of the top board with mechanical emergency adjustment and freely accessible emergency-off switch
- Manual cable or radio control for operating all functions via one-touch keys



## ACCESSORIES AND OPTIONS

- Battery guard for protection of electronics
- Repeater of the vehicle lighting
- Cargo securing set
- Central crank supports
- Control and monitoring system
- Warning board in compliance with RSA 95 and ZTV-SA incl. traffic sign 615-31 StVO (road traffic regulations)
- Motorized lifting and lowering of the top board

## ELECTRICAL SYSTEM

- Rechargeable battery 12 V, up to 55 hours daytime operation (further energy packages on request)
- Trailer lighting optionally 12 V and/or 24 V
- Feed socket 230 V
- Battery charger

### Technical data

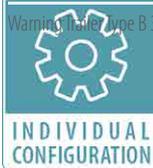
Total length	5360 mm
Total width	2150 mm
Track width	1900 mm
Loading area (LxW)	2600 x 1540 mm
Clearance width	1540 mm
Clearance height	1262 mm (centred 2212 mm)
Side boards (H)	300 mm
Total weight	1300 - 1500 kg
Empty weight depending on model	590 - 960 kg
Max. load capacity	540 - 710 kg

### Warning Trailer Type B3

### Ref. No.

Warning trailer Type B3, without light warning system

129 700-003



# Warning Trailer

# B4



## CHASSIS AND BODY

- Chassis and body of galvanized steel
- Galvanized, height-adjustable drawbar (Al-Ko), with overrun brake, holding brake and parallel adjustment
- DIN towing eye and with a changeable spherical head coupling
- Loading ramp surfaced with aluminium chequered plate
- Loading area of 15 mm 7 layered laminated plywood sheets with sealed edges
- Side panels of double-walled aluminium with interior reinforcement bars
- Height-adjustable semi-automatic support wheel
- Robust plastic fenders
- Battery box integrated into the side panel design incl. cover of aluminium chequered plate (1580 x 450 x 300 mm)
- Braked tandem design rubber spring axle
- 6 lashing points (straps) with 400 daN
- 2 fully adjustable support legs



## WARNING BOARD

- Warning board in compliance with RSA 95 and ZTV-SA incl. traffic sign 616-31 StVO (road traffic regulations), 2500 x 1700 mm
- Chevron patterned plates and directional arrow with microprismatic retro-reflective foil, type RA2C
- Luminous arrow system with two LED-TL advance warning beacons (WL5) and 15 separately monitored LED-TL warning beacons (WL6)
- Directional arrow with motor revolution, mechanical emergency adjustment and automatic luminous arrow adjustment
- Motorized lifting and lowering of the top board with mechanical emergency adjustment and freely accessible emergency-off switch
- Manual cable or radio control for operating all functions via one-touch keys



## ELECTRICAL SYSTEM

- Optional traffic figures Z 615 Rechargeable battery 12 V, up to 55 hours daytime operation (further energy packages on request)
- Trailer lighting optionally 12 V and/or 24 V
- Feed socket 230 V
- Battery charger

## ACCESSORIES AND OPTIONS

- Battery guard for protection of electronics
- Repeater of the vehicle lighting
- Cargo securing set
- Central crank supports
- Control and monitoring system
- Warning board in compliance with RSA 95 and ZTV-SA incl. traffic sign 615-31 StVO (road traffic regulations)
- Motorized lifting and lowering of the top board

## Technical data

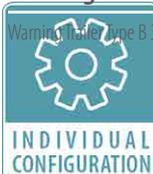
Total length	5928 mm
Total width	2104 mm
Track width	1900 mm
Loading area (LxW)	3305 x 1540 mm
Clearance width	1540 mm
Clearance width	1262 mm (centred 2212 mm)
Side boards (H)	300 mm
Total weight	2000 - 2500 kg
Empty weight depending on model	1000 kg
Max. load capacity	1000 - 1500 kg

## Warning Trailer Type B4

Ref. No.

Warning trailer Type B 3 Tandem (B 4), without light warning system

129 700-004



# SOMETIMES, MORE IS BETTER

Ready for operation, right from the factory: You can start using our warning trailers in road traffic right away. We also offer accessory options so that you can customize your trailers to your needs for one-of-a-kind operating convenience.

## **Electrical equipment**

### **Battery monitor**

Ensure the long-term performance of your warning trailer. The optional battery monitor sends you a warning in advance, before the capacity of your battery is too low for operation. The device also monitors the charging process and protects against overloading. This way, you can effectively prevent unforeseen breakdowns and damage to the electrical system.

### **Charge booster**

The on-board battery of your warning trailer does not get a sufficient charge from the generator of the towing vehicle. After the engine is started, the charging voltage and the charging current are regulated to protect the starter battery. Our charging boosters ensure that the battery is reliably charged, even over short distances. This increases the service life and improves the reliability of your warning trailer.

## **Operation**

### **Operating hours meter**

The detailed documentation of your warning trailer use let you detect wear and tear in advance and replace parts like bulbs, batteries or mechanical components before they fail. The operating hours meter also provides you with critical information to make your billing easier.

### **Interface package XML**

This module enables secure data exchange between several devices. It makes it possible to remotely control warning trailers equipped with the XML interface package – including all functions. In addition, your warning trailer can also send data to control systems.



### **Electrical peephole VZ 222**

Always have the correct information and a critical overview of oncoming traffic. Opening and closing the slates electrically in the large round plates is more than a comfortable operation, it is an additional benefit of safety.

### **NiBus modem**

This digital data interface lets you control and monitor our warning trailer up to safety standards, regardless of your location. In addition, the NiBus modem can also be used to integrate systems into common construction site management systems.

### **Transportation**

#### **Secure loading**

Whatever you need. You can also use our warning trailers to add additional material and tool requirements to the work site. We offer a variety of accessories for secure transportation, from airline rails to safety nets and to lashing rails on the floor of the loading area.

### **Safety**

#### **GPS speed sensor**

Our warning trailers are designed for specific maximum speed. These vary, depending on the system. The optional GPS speed sensor ensures that the warning trailer automatically retracts when the maximum speed is exceeded. The system also prevents the warning trailer from opening during travel.

#### **Automatic coupling and uncoupling**

Our mobile parking panels can optionally be equipped with a device for automatic coupling and uncoupling to or from the towing vehicle. This saves entry into the traffic area and increases safety.

# INDIVIDUALITY AT A GLANCE

Adapt your mobile barrier with accessories that meet your needs.

	A1	A2	A31	A41	A51	B1	B2	B3	B4
<b>Equipment</b>									
• Spare wheel with holder	•	•	•	•	•	•	•	•	•
• Parking light socket	•	•	•	•	•	•	•	•	•
• Axis mileage indicator	•	•	•	•	•	•	•	•	•
• Anti-theft wheel bolts	•	•	•	•	•	•	•	•	•
• Cockpit bracket remote control	•	•	•	•	•	-	-	-	-
• Holder and charging tray Pro Remote II	•	•	•	•	•	-	-	-	-
• Lighting for loading area	•	•	•	•	•	-	-	•	•
• Step above mudguard	•	•	•	•	-	-	-	-	-
• Cable drum	•	•	•	•	•	-	-	•	•
• Holder for warning flag	•	•	•	•	•	-	-	•	•
• Light for battery box	•	•	•	•	•	-	-	-	-
<b>Operation</b>									
• Preparation NiBus modem	•	•	•	•	•	-	-	-	-
• XML interface package	•	•	•	•	•	•	•	•	•
• Hydraulic lifting / lowering device	•	•	•	•	•	•	•	•	•
• Tool-less emergency operation PV	•	•	•	•	•	•	•	•	•
• Electrical peephole VZ 222	•	•	•	•	•	-	-	-	-
• NiBus modem	•	•	•	•	•	-	-	-	-

	A1	A2	A31	A41	A51	B1	B2	B3	B4
<b>Electrical systems</b>									
• Power supply 230 V	•	•	•	•	•	•	•	•	•
• Charging plug connection 12/24 V	•	•	•	•	•	•	•	•	•
• Battery	•	•	•	•	•	•	•	•	•
• Operating hours meter	•	•	•	•	•	•	•	•	•
• Preparation for power generators	•	•	•	•	•	-	-	-	-
• Charge booster	•	•	•	•	•	•	•	•	•
<b>Chassis</b>									
• Central crank support	•	•	•	•	•	•	•	•	•
• Upgrade 100 km / h	•	•	•	•	•	•	•	•	•
• Height adapter for support wheel	•	•	•	•	•	•	•	•	•
<b>Safety</b>									
• Preparation CB radio warning transmitter	•	•	•	•	•	•	•	•	•
• GPS speed sensor	•	•	•	•	•	•	•	•	•
• Monitoring equipment	•	•	•	•	•	•	•	•	•
• Malfunction message via alarm siren	•	•	•	•	•	•	•	•	•
• Front and side warning markings	•	•	•	•	•	•	•	•	•
• Warning markings left/right	-	-	-	-	-	-	-	•	-
• Anti-theft protection limit lights	•	•	•	•	•	-	-	-	-
• Upper panel lock	•	•	•	•	•	•	•	•	•
• CB warning system	•	•	•	•	•	•	•	•	•
<b>Transportation</b>									
• Traffic cone holder	•	•	•	•	•	•	•	•	•
• Holder for light arrow LP 8	•	•	•	•	•	-	•	•	•
• Airline rail on the side walls	•	•	•	•	•	-	•	•	•
• Net for securing loads	•	•	•	•	•	•	•	•	•
• Tension / lashing harness for LED-VLT	-	-	•	•	•	-	-	-	-
• Lashing rails	-	•	•	•	•	-	-	•	-
• Warning signal holder	•	•	•	•	-	-	-	-	-

# WARNING-, UPPER BOARDS & SLIDER

For installation on existing vehicles and for country-specific traffic signs, our warning boards and upper boards are manufactured according to the highest quality standards in Germany. They can also be individually configured to your needs.





# Warning Board Type A and B

- Warning Board according to German Standard RSA and TL-Absperrtafeln 3600 x 2200 mm with traffic sign 616-30 (big)
- Warning Board according to German Standard RSA and TL-Absperrtafeln 2500 x 1700 mm with traffic sign 616-31 (small) or traffic sign 615
- Optional: battery box, battery guard, charger, vehicle lightning system, manual or electrical arrow adjustment, hydraulic or electrical lifting/lowering, remote control Standard-Remote or Pro-Remote



## Warning Board Type A and B

Warning Board Type B  
according to German standard "RSA" with sign 615 or 616 (small)

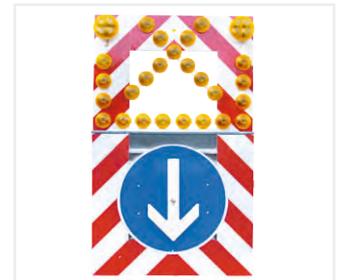
Warning Board Type A  
according to German standard "RSA" with sign 616

## Ref. No.

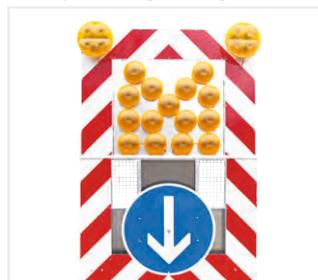
329 378-001  
329 379-001



Example: Warning board sign 615



Example: Warning board sign 616-30



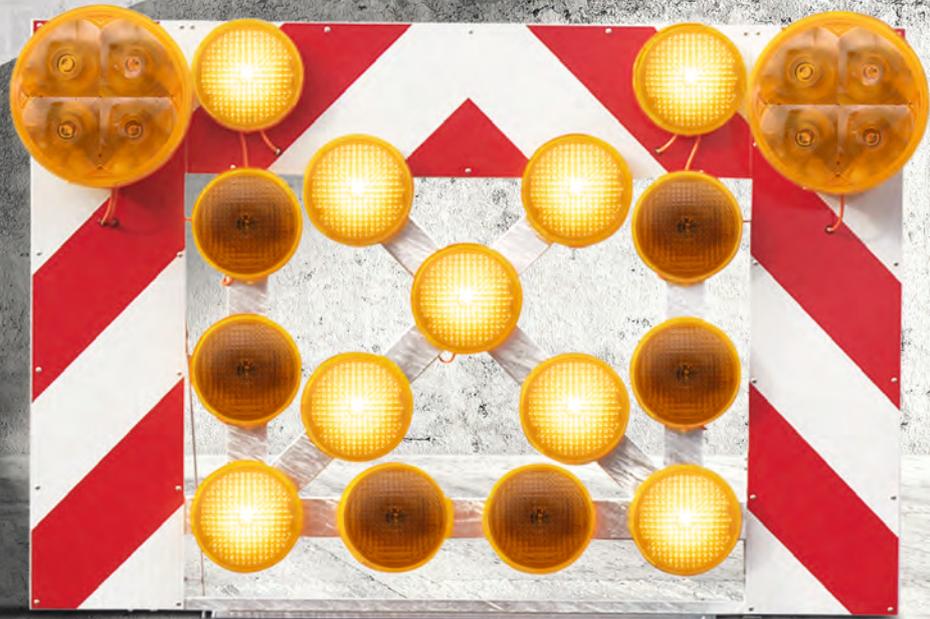
Example: Warning board sign 616-31



More information  
NIS-01335  
To be entered on nissen-germany.com

# Upper Boards

- For mounting country specific traffic signs or lamps
- Easy installation
- Mounting of the upper board by hinge system
- Optional: battery box, battery guard, charger, vehicle lighting system, manual or electrical arrow adjustment, electrical or hydraulic lifting/lowering, remote control Standard-Remote or Pro-Remote

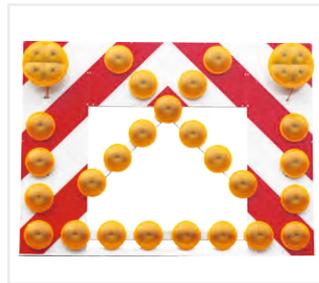


## Upper Boards

- Upper Board with light arrow combination type LP 15
- Upper Board with light arrow combination type LP 23
- Upper Board with light arrow combination type LP 25
- Width 2200 mm
- Upper board with light arrow combination Type LP 25 small
- Width 1980 mm

## Ref. No.

- 329 380-001
- 329 380-003
- 329 380-004
  
- 329 380-005



Upper board with light arrow system LP 25



Upper board with light arrow system LP 15



More information

NIS-01338

To be entered on nissen-germany.com

# Vertically Lifiable Warning Board Slider

- Low wind load when the upper board is lowered
- Also possible in combination with crash absorber and docking station
- Available in nearly all country-specific versions



## Vertically Lifiable Warning Board Slider

Vertically Lifiable Warning Board Slider  
with light arrow combination Type 8000 and motor operated  
arrow adjustment

## Ref. No.

129 740-001



More information

NIS-00754

To be entered on nissen-germany.com



# LIGHT ARROWS

Small flashing arrows as per the technical specifications for warning lights and EN 12352

Our small arrows are the ideal choice when you need additional safety markings. You can install them on vehicles or on masts and guard rails. High-quality, tried and tested LED lamps ensure maximum light output.





# LED Light Arrow LP 8

- Low wind load according to open design
- Continuous brightness adaptation
- Quick and easy mounting at or on vehicles and carriages
- Aluminium frame, slip-on type, for pointing left or right
- Bracket for mounting on tubes for manual setting to five different positions available



**Light colour**  
yellow



**Max. light intensity**  
2200 cd



**Eff. light intensity**  
1500 cd



**Aver. power consumpt. day**  
1,3 A



**Operating voltage**  
12/24V



**Weight**  
13 kg



**Dimensions (LxWxH)**  
1130 x 900 x 165 mm

## LED Light Arrow LP 8

Ref. No.

LED Light Arrow Type LP 8 129 361-152  
consisting of:  
8 Multi-Light 200 LED lamps 220 mm, mounted on an aluminium frame with slip-on device and 3 m connecting cable with battery clips

## Accessories and Spare parts

Ref. No.

Bracket for mounting on tubes with adjustment device, 5 positions 329 360-1  
Adapter for mounting on board sides 329 365-3

## Running time with one battery set

With rechargeable battery 12V, 180 Ah 160 hrs  
With rechargeable battery 12V, 230 Ah 200 hrs



**More information**  
NIS-00562  
To be entered on nissen-germany.com

Test number  
V3-24-2013

# LED Light Arrow LP 13 Classic

- Electrically switchable to pointing left or right or to light cross
- Sandwich-Feature: Fitting of a second combinable Light Arrow LP 13 for routing of oncoming and following traffic
- Solid bracket for mounting on tubes
- Optional with cable remote control Eco-Remote II



**Light colour**  
yellow



**Eff. light intensity**  
2000 cd



**Aver. power consumpt. day**  
1,0 A



**Operating voltage**  
12/24V



**Weight**  
14 kg



**Dimensions (LxWxH)**  
900 x 900 x 95 mm

## LED Light Arrow LP 13 Classic

Ref. No.

LED Light Arrow LP 13 Classic

consisting of:

1 housing, made of highly weatherproof plastic  
with 13 LED lamps 200 mm Ø

5 m connecting cable with battery clips

## Accessories and Spare parts

Ref. No.

Eco-Remote II cable remote control

129 266-53

with 14 m cable and LP 13 holder

Eco-Remote II cable remote control (without cable)

329 233-3

## Running time with one battery set

With rechargeable battery 12V, 180 Ah

200 hrs

With rechargeable battery 12V, 230 Ah

250 hrs



**More information**

NIS-01331

To be entered on nissen-germany.com

# LED Light Arrow LP 15

- High-grade steel frame with 15 energy-efficient light arrow lamps (220 mm) with only one LED each
- With light cross for use on hard shoulders
- Continuous brightness adaptation
- Optionally with 2-fold warning light system 340 mm
- Also available with motor-driven lifting/lowering device
- With cable remote control Eco-Remote II
- Optionally with radio remote control



**Light colour**  
yellow



**Max. light intensity**  
2200 cd



**Eff. light intensity**  
1500 cd



**Aver. power consumpt. day**  
1,2 A



**Operating voltage**  
12/24V



**Weight**  
with roof frame 50 kg



**Dimensions (LxWxH)**  
1230 x 1115 x 198 mm

## LED Light Arrow LP 15

Ref. No.

LED Light Arrow Type LP 15 Kompakt with roof frame and lifting/lowering device, with cable remote control Eco-Remote II	129 473-601
LED Light Arrow Type LP 15 with cable remote control Eco-Remote II, without roof frame and lifting/lowering device	129 473-401
LED Light Arrow Type LP 15 Kompakt with twofold warning light system Multi-Light 340 LED with roof frame and lifting/lowering device, with cable remote control Eco-Remote II	129 473-602
LED Light Arrow Type LP 15 with twofold warning light system Multi-Light 340 LED with cable remote control Eco-Remote II, without roof frame and lifting/lowering device	129 473-402

## Accessories and Spare parts

Ref. No.

Radio Remote - Radio remote control	329 235-1
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## Running time with one battery set

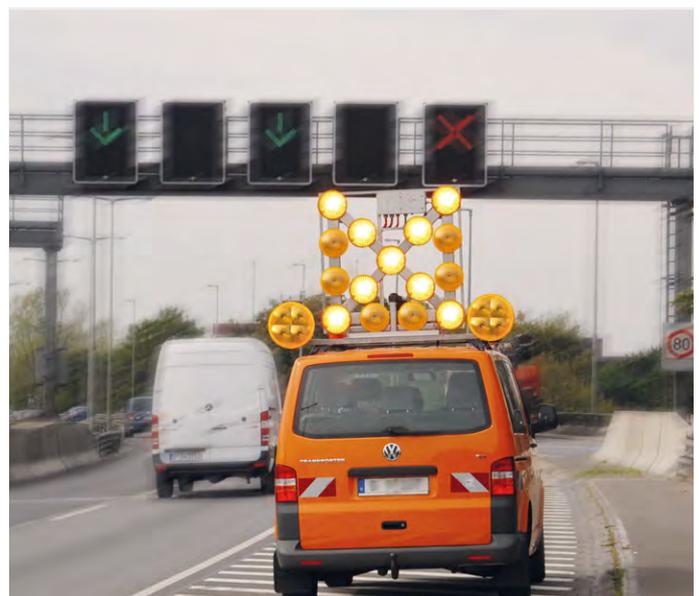
With rechargeable battery 12V, 180 Ah	200 hrs
With rechargeable battery 12V, 230 Ah	250 hrs



**More information**

NIS-01222

To be entered on nissen-germany.com



Test number  
V3-24-2013

# LED Light Arrow LP 15 Slider

- Speeds up to 80 km/h with lifted arrow, no speed limit with lowered arrow
- Hardly any additional fuel consumption compared with conventional roof frames
- Reduced wind noise due to mounting behind the vehicle cabin
- Up to 4 switching outputs for additional equipment (working lights, front flashers etc.)
- Automatic day/night adaptation



**Light colour**  
amber



**Max. light intensity**  
2200 cd



**Eff. light intensity**  
1500 cd



**Aver. power consumpt. day**  
1,2 A



**Operating voltage**  
12/24V



**Weight**  
95 kg  
(depending on version)



**Dimensions (HxWxD)**  
350 x 1212 x 2310 mm  
(depending on version)

## LED Light Arrow LP 15 Slider

**Ref. No.**

LED Light Arrow Type LP 15 Slider on vertically liftable warning board with cable remote control Eco-Remote II	129 474-001
LED Light Arrow Type LP 15 Slider on vertically liftable warning board with twofold warning light system Multi-Light 340 LED (bottom) with cable remote control Eco-Remote II	129 474-003

## Accessories and Spare parts

**Ref. No.**

Cover for lower frame of vertically liftable warning board LP 15/S L8H NiBus	081 651-21
Eco-Remote II cable remote control with 14 m cable and LP 15 holder	129 266-40
Eco-Remote II cable remote control (without cable)	329 233-3



**More information**  
NIS-01227  
To be entered on nissen-germany.com

# Roof Frame for Service Vehicles

# Pamir II



## DESIGN

- Housing made of glass-fibre reinforced plastic (GRP)
- Folding frame and round frame of aluminium or hot-galvanized steel
- Profile housing of the text matrix of aluminium (AlMg3)
- Profile bars for mounting on any vehicles

## LUMINOUS ARROW / TEXT MATRIX

- Light arrow system either with 15 or 23 LED luminous arrow lamps certified in compliance with EN 12352
- Motor-driven lifting and lowering of the upper board, including a mechanism for mechanical emergency adjustment
- Manual cable control or combined manual radio-cable control for operating all functions via touchscreen and one-touch keys
- Freely programmable VarioSign text matrix with continuous brightness adjustment, automatic or manual to display static or dynamic texts and symbols

Housing size:	1750 x 370 mm
LED surface:	1620 x 240 mm
Number of characters:	9
Grid dimension:	15 mm
Pixels:	108 x 16
Character height:	200 mm

## ELECTRICAL SYSTEM

- 12/24 V operating voltage

## ACCESSORIES AND OPTIONS

- 2-fold 340 mm warning lights
- Work lights
- Revolving beacons
- Battery guard for protection of electronics



### Technical data

Total length	LP 15: 2150 mm
Total length	LP 23: 2600 mm
Total width	LP 15/23: 1760 mm
Height lowered	LP 15/23: 370 mm
Height lifted	LP 15: 1521 mm
Height lifted	LP 23: 1751 mm
Weight	100 kg

### Roof Frame for Service Vehicles Pamir II

### Ref. No.

Roof Frame for Service Vehicles, 9 segments with light arrow LP 23-H/S with cable remote control Standard-Remote Dimensions: 2450 x 1710 x 390 mm	129 493-001
Roof Frame for Service Vehicles, 9 segments with light arrow LP 23-H/S with radio/cable remote control Pro-Remote Dimensions: 2450 x 1710 x 390 mm	129 493-101

Further versions on request



More information  
NIS-00743  
To be entered on nissan-germany.com



# COMFORTABLE OPERATION

## Single source control

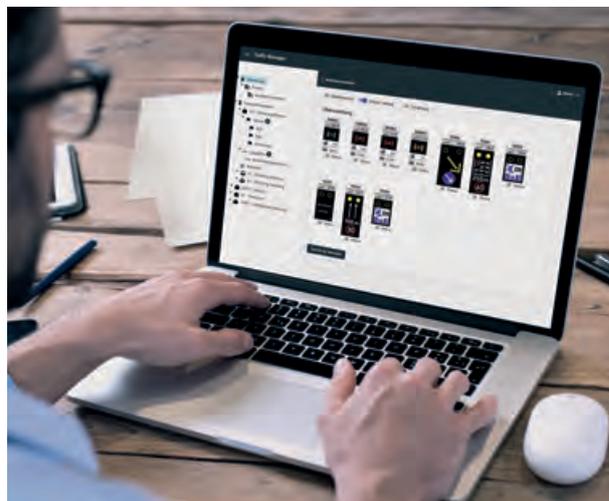
Safe warning systems require sure operation. Simple and comfortable – with the robust cordless remote control by Nissen. You only need to press a few buttons to move the board to the correct position and indicate the desired

direction. Traffic signs and light arrows are linked together, which rules out any misalignment. Clear symbols and clear display images allow intuitive, safe operation – even in adverse light and weather conditions.

## MOBILE TELEMATICS

**Benefit from unlimited flexibility: With the Traffic Manager software, LED variable message signs, mobile LED warning trailer and other devices can be automatically or manually controlled remotely.**

Mobile traffic management can do more: in combination with our traffic measurement cross-sections, almost all intelligent traffic control options are available to you. For the permanent monitoring of the central unit required for this purpose, we also offer you a 24/7 daily calendar, and with certified specialists in accordance with the FGSV information sheet for panels with



photometric information part (MTI) (2015). Discover the possibilities and advantages of mobile traffic management [nissen-telematik.com](http://nissen-telematik.com)



# Touch Remote Color

- Large 5,7" full color touch screen display
- Automatic day/night adaptation
- Combined cable/radio remote control
- Operation of the most important features via keypad
- Favorite combinations freely programmable via touch screen
- Functions keys freely programmable
- Useable for all Nissen systems



**Dimensions (LxWxH)**  
211 x 141 x 39 mm



**Weight**  
680 g

## Touch Remote Color

Touch Remote Color  
radio/cable remote control (bluetooth) with touch screen  
and illuminated keypad (without cable)

## Ref. No.

329 236-1

## Accessories and Spare parts

Charging tray for remote control Touch-Remote Color without cable function,  
2 m connection cable

329 238-1

Charging tray for remote control Touch-Remote Color without cable function,  
2 m connection cable with 6 pole sleeve plug

329 238-2

Charging tray for remote control Touch-Remote Color without cable function,  
2 m connection cable with vehicle plug



Connector dashboard holder



Charging tray with vehicle plug



Touch Remote in the charging tray



6 pole sleeve plug and vehicle plug



**More information**  
NIS-01742  
To be entered on [nissen-germany.com](http://nissen-germany.com)

# Standard- and Pro-Remote

- Universal remote control for secure and easy operating also of complex devices via cable connection
- Large operating keys
- Illuminated keypad
- Easily readable large display with additional touch screen function



**Dimensions (LxWxH)**  
215 x 130 x 45 mm



**Weight**  
Standard-Remote: 480 g  
Pro-Remote: 700 g

## Standard- and Pro-Remote

### Ref. No.

Pro-Remote II radio/cable remote control - Bluetooth touchscreen (without cable)	329 231-12
Standard-Remote cable remote control touchscreen (without cable)	329 232-2

## Accessories and Spare parts

### Ref. No.

Holder and charging cradle for radio remote control Pro-Remote	329 230-1
Holder and charging cradle for radio remote control Pro-Remote 90 – 264 V AC version including adapter useable for EU, US, UK and AU	329 230-11
Holder and charging cradle for radio remote control Pro-Remote with 2 pin vehicle plug	329 230-12
Holder for cable remote control Standard-Remote	329 230-2
Dashboard holder with ball joint arm for remote controls for mounting at holders	329 230-21



Standard-Remote



Pro-Remote



Holder and charging cradle



Holder and charging cradle with dashboard holder



**More information**  
NIS-01785  
To be entered on nissen-germany.com

# Eco- and Radio-Remote

- Compact remote control for secure and easy operating of devices via cable connection
- Large operating keys
- Illuminated keypad
- Low weight
- LCD-Display for indication of the most important functions



**Dimensions (LxWxH)**  
175 x 80 x 31 mm



**Weight**  
Eco-Remote: 170 g  
Radio-Remote: 250 g

## Eco- and Radio-Remote

Eco-Remote II cable remote control (without cable)  
Radio Remote - Radio remote control

## Ref. No.

329 233-3  
329 235-1



Remote Control Eco-Remote II



Remote Control Radio-Remote



**More information**  
NIS-01784  
To be entered on [nissen-germany.com](http://nissen-germany.com)





# WE POINT THE WAY



# TOGETHER FOR YOU

Just as our developments convince you through their quality and functionality in use, we consequently ensure that you always feel well advised by Nissen. Our team of experienced and competent specialists will find a solution for all of your concerns.

Whether you ask for help from your contacts in Tönning or on-site through our internationally organized sales department - we are a team and are always there for you. What can we do next for you?



# A CALL IS ENOUGH



Do you need a larger delivery of safety barriers at short notice? Do you want an offer for a mobile warning trailer or do you have questions about the versatility of our VarioSign LED systems? Our team in Tönning can be reached by phone and e-mail. We speak your language and handle your concerns as quickly and reliably as possible. And there is always time for a few personal sentences - we look forward to hearing from you!

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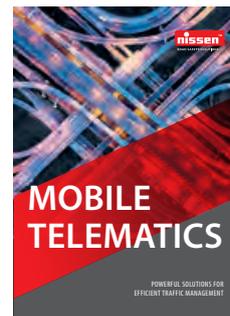




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## Imprint

### Edition

January 2019

### Publisher

Adolf Nissen Elektrobau GmbH + Co. KG,  
Friedrichstädter Chaussee 4, 25832 Tönning

### Concept and design

mlv Werbeagentur GmbH, Hamburg

### Press head

Lehmann Offsetdruck und Verlag GmbH,  
Norderstedt

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