

Lighting

Electrics

Electronics

Thermal  
Management

Sales  
Support

Technical  
Service

Our Ideas,  
Your Success.

***Hella worklights –  
turn night into day!***



*Ideas today for  
the cars of tomorrow*



## ***Worklights – from Hella of course***

The use of suitable worklights improves both comfort and working safety, at the same time increasing productivity and the quality of work.

The range of worklights on the market is, however, quite complex. Alongside numerous manufacturers, there are also different forms of technology, various worklight designs and attachment possibilities available.

### **This makes optimum advice in your selection of worklights extremely important!**

This brochure provides an extract from Hella's complete range to help guide you through the important criteria that need to be considered if the correct choice of worklight is to be made. The most important questions to ask your customers and your knowledge of **headlight technologies** (pages 5 – 7) should be an important part of your sales strategy. On the **target group pages** (16–37), we recommend the worklights best suited to the job – and suitable for the attachment positions on the vehicle. The specific **product features** of the individual models are presented from page 38 onwards.

This brochure will provide you with additional specialist knowledge and sales arguments for customer talks.

The decision in favour of the right worklights from Hella should be easy for a quality-conscious customer who has been given optimum advice. Because the arguments in favour of Hella are clear.

You can find the complete range of worklights in the current main Hella catalogue.

#### **Hella offers:**

- A comprehensive range
- All the necessary spare parts and accessories
- High reliability
- Safe operation and long service life thanks to top quality
- Innovative lighting technology and modern design



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## ***Worklights – for a perfect working result***

**Working at night or in the dark – that's no problem as long as you have the right lights!**

Standard vehicle lighting is, however, not the best possible choice in this case. Because the use of low beam, high beam and fog lights to illuminate the working area only leads to poor visibility conditions. Their lighting characteristics have been optimised for illuminating the roadway.

Only worklights generate illumination that is really suitable for the working area. They have been specially developed to illuminate as large an area as possible with a soft transition area at the edges.

**This is important: Because more light means better visibility and thus better working results!**

But a worklight is not just a worklight.

On the following pages, we would like to point out the differences in the technology available and what has to be heeded when installing the lights.

### ***Legal notes:***

■ According to FMVSS § 52 (7) [Germany], all multi-track vehicles may be equipped with one or more worklights. Worklights must not be used when these vehicles are being driven on public roads, only when they are at a standstill e.g. during loading and unloading. Exceptions to this are made for vehicles used for constructing, maintaining or cleaning the roads

or for waste disposal vehicles, if the action of driving is part of a working process. Worklights may only be switched on as long as they do not dazzle other road users.

■ Worklights must be able to be switched on independently of all other headlights or lights, e.g. joint circuitry with the reverse light is not permitted. Hella provides

special reversing spotlights for this purpose.

■ There are no special approval regulations, e.g. according to ECE or EC, since worklights may only be used when driving away from public roads.



## Innovative LED technology

The Mega Beam LED is one technological highlight in the worklight range. With this model, Hella has implemented LED technology in a worklight for the first time.

**New: Mega Beam LED.  
Only 7 W power consumption.**

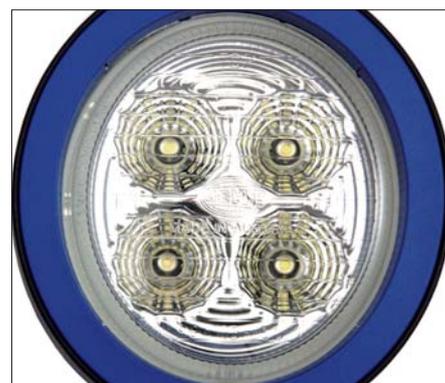
**The use of LEDs – light emitting diodes – results in a wide range of technical and economical benefits.**

- **Extremely long service life** of the LEDs in comparison to halogen and xenon lights – making replacement of the light source a thing of the past. Impact-resistant LED rather than a sensitive bulb filament, no sudden light failure. No downtimes and mounting times – no follow-on costs.
- **Minimum energy consumption** – an advantage when used on battery-operated vehicles or older vehicles with a weak alternator.
- **Absolutely dust- and waterproof** – for perfect function.

► See pages 19, 23, 27, 37, 38, 40



The back of the housing with large cooling ribs guarantees the heat dissipation necessary to guarantee the long service life of the LEDs.



The LEDs are positioned in a high-shine metallized free-form reflector. This enables the best possible utilisation of the light radiated by the LEDs in the required direction.



## Powerful xenon technology

Unlike conventional lights, xenon lights do not have a bulb filament. Rather, the light is produced using the light arc principle. Here, a mixture of the inert gas xenon and metallic salts is enclosed in a glass bulb the size of a matchstick head. The light arc is ignited and maintained between two exactly positioned electrodes. The high voltage necessary for the ignition of the light arc of 20,000 V is produced by a sophisticated electronic ballast.



Xenon bulb D1S

**The use of xenon worklights brings clear advantages compared with the use of halogen worklights:**

- **2.5 times the luminous flux - resulting in brighter and wider illumination of the working area (compared with H3 bulb).**

- **Approx. 35% less power consumption.**

- **Illumination similar to daylight** – for natural colour reproduction, even at night.

- **No sudden light failure** – impact-resistant light arc rather than a sensitive bulb filament.

- **Service life up to five times longer than that of a halogen bulb** – reduced expenditure for bulb replacement.

- **Constant brightness** even if the on-board voltage decreases.

- **Lower load on the vehicle electric system** thanks to the power consumption of only 42 W.

► See pages 17–19, 22–23, 29–32, 34–35, 38, 41–46

### Notes on installing xenon worklights

- The line resistance between the vehicle battery and xenon ballast may not be greater than 150 mΩ (12 V) or 300 mΩ (24 V) for the ballast to ignite the xenon light safely. Care must be taken that wire cross-sections are sufficient → please refer to installation instructions supplied with the worklight.

- For optimum service life of the xenon light it should not be tilted to an angle greater than  $\pm 35^\circ$ .



## *Tried and trusted halogen technology.*

Both H3 and H9 bulbs are used in Hella worklights. Halogen bulbs contain a mixture of gases with halogen compounds (usually iodine or bromine compounds). They ensure that the filament is "regenerated" by means of complicated transport processes. This keeps the light output of the bulbs more or less constant over the whole service life.

**Hella is the first supplier worldwide to use H9 bulbs in worklights, and their use results in major benefits for customers:**

- **1.5 times more light output** – thanks to the greater luminous flux of the H9 bulb compared with the H3 bulb.
- **Direct access** – thanks to the bulb being accessible from the outside for the electrical contact.

- **Straightforward bulb replacement** – without the headlight housing having to be opened.

H9 bulbs are only available as 12 V versions.

- ▶ See pages 16–19, 22–31, 34–39, 48–55



H3 and H9 bulb



Easy replacement of the H9 bulb without having to open the headlight

**(Existing halogen worklights can, of course, be replaced by more powerful xenon worklights.)**



## ***What do the IP protective categories mean?***

The IP protective categories\* provide information about the extent to which the electrical equipment in vehicles, such as worklights, is protected against certain environmental conditions. This includes protection against the penetration of solid particles including dust, and against water penetration.

The Hella worklights meet at least protective category IP 5K4K.

\* IP protective categories are determined according to DIN 40 050 Part 9. IP stands for International Protection.

### **The protective ratings of the Hella worklights in detail:**

#### **Protective category IP 5K4K**

Dust may only penetrate to such an extent that function and safety are not impaired. Water being sprayed against the housing at increased pressure may not have a harmful effect, water pressure approx. 4 bar.

#### **Protective category IP 6K4K**

Dust must not penetrate. Water being sprayed against the housing at increased pressure may not have a harmful effect, water pressure approx. 4 bar.

#### **Protective category IP X9K**

Water that is directed against the housing during high-pressure/steam jet cleaning may not have a harmful effect; water pressure approx. 80 bar.

### **Decisive for the specification of the protective rating are the splashwater test and the dust test.**

The **splashwater test** provides information about how a worklight resists rain, splashwater, mud and high-pressure cleaners. For this purpose, water is sprayed constantly onto the headlight in a closed chamber as if through a high-pressure cleaner.

The **dust test** examines the degree to which the worklight is protected against penetration by solid particles including dust. For this purpose, the test sample is exposed to a flow of dust/air mixture for a certain length of time in the chamber.



## Quality tests

Further tests are carried out besides these tests for specifying the IP protective categories:

### Two-part heat test:

Part 1 is the 24-hour test. The worklight remains switched on without interruption over this period. In the second part, the headlight is then exposed to a temperature of 50°C for one hour. A figure that can quickly be reached during use in the summer months.

### Vibration and oscillation test:

For this, the headlight's behaviour during driving is simulated. Worklights that pass this test always shine correctly.

### Fogging test:

Hella uses the fogging test to see how the worklight copes with humidity penetration. If the fogging disappears in a prescribed brief time, the headlight is OK.

### Evaluating the lighting technology:

At Hella, photometric investigations are carried out according to the highest standards. The accuracy of the illumination and the precision of the production are evaluated.

**As you can see, your customer can rely on the quality of Hella worklights.**

## What does GGVS/ADR mean?



Some headlights in the product section are marked with this symbol.

This means that these products are approved for mounting to transport equipment which complies with the requirements of GGVS/ADR B Rn 10251 and Rn 11251 for electrical equipment.

**GGVS** Gefahrgutverordnung Straße

**ADR** Accord européen relatif au transport international des marchandises dangereuses par route



## Why worklights?

Working at night – no problem with the right worklights.

Special headlight types have been developed for this purpose:

- **Low-beam headlights and spotlights:** for illuminating the road in road traffic
- **Fog lights:** for poor visibility conditions in road traffic
- **Worklights:** for the illumination of a working area near the vehicle and away from public road traffic

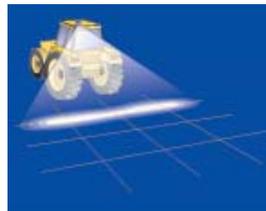
At the mounting height typical for work lighting (2.50 m), only worklights provide sufficient illumination of the working area. Standard vehicle lighting is nowhere near good enough! Outstanding features of a good worklight include the homogeneous illumination of as large an area as possible and a soft transition at the edge.



Low beam



High beam



Fog light



Worklight

## Active safety through proper illumination!

It's not only the selection of the correct type of headlight that's decisive for the choice of optimum worklight, but its correct positioning on the vehicle, too. Worklights shine at an angle to the surface they are illuminating. This means that even small changes in the angle of inclination and the mounting height have a great influence on the illumination of the working area. For large-surface illumination, the higher the mounting position the better.



Low mounting position

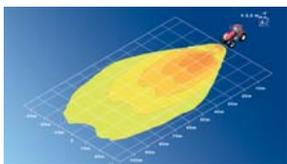


High mounting position

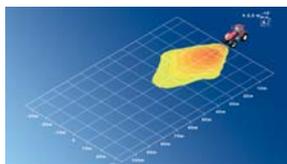


## Angle of inclination

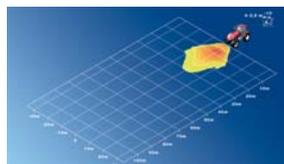
At different angles of inclination at a constant mounting height, the illumination provided by the worklight changes (e.g. Mega Beam xenon at a mounting height of 2.50 m):



Angle of inclination 4°



Angle of inclination 10°

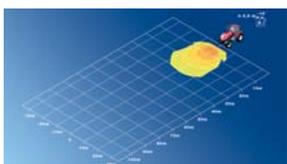


Angle of inclination 15°

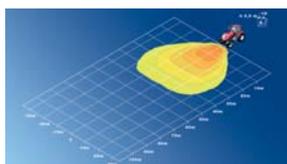
The optimum angle of inclination of any type of worklight depends on the basic characteristics of its light distribution, e.g. for close-range, ground, off-road or long-range illumination.

## Isolux diagrams

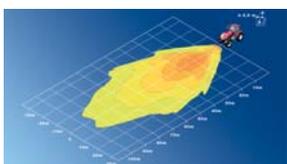
Worklights are supplied in versions with different light distributions:



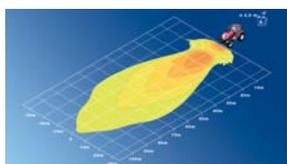
Close-range illumination



Ground illumination



Off-road illumination

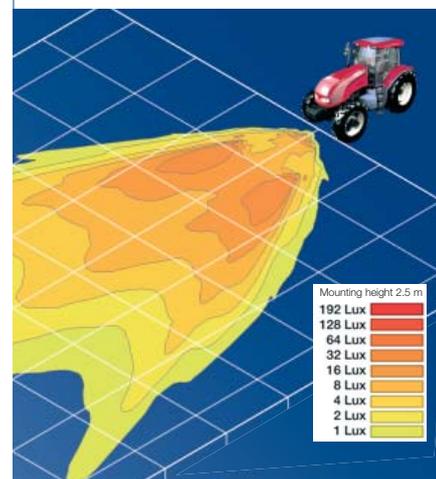


Long-range illumination

The Isolux diagrams illustrate the characteristics of the illumination by a worklight for the given angle of inclination. The more intensive the red shading, the higher the Lux value and thus the light intensity. All the Isolux diagrams are valid for 12 V and a mounting height of 2.5 m.

## Help with reading Isolux diagrams:

The Isolux diagrams illustrate the characteristics of illumination for the optimum angle of inclination. The diagrams will help you to choose the worklight that best complies with your illumination and light output requirements.





## Optimum illumination for working areas – the right combination is the trick!

By deciding in favour of high-quality Hella worklights, you will achieve optimum illumination for your working area. The clever combination of different illumination characteristics allows the illuminated area to be significantly further extended.

**How it works:** Just choose a suitable worklight. Then mount different versions of this worklight, e.g. the ground illumination version (as the left-hand headlight) and long-range illumination (as the right-hand headlight). And you have extensive illumination in no time.

**Note!** Please make sure of the correct inclination when mounting the lights, as this is decisive for the illumination. Worklights with a long-range or off-road illumination have an optimum angle of inclination of  $5^{\circ}$ - $10^{\circ}$ . In contrast, worklights with ground or close-range illumination are set to an angle of inclination of  $15^{\circ}$ - $30^{\circ}$ . To make advice and selection easier, we recommend the best possible combinations. In addition, those worklights that are less suitable for combination are also listed.

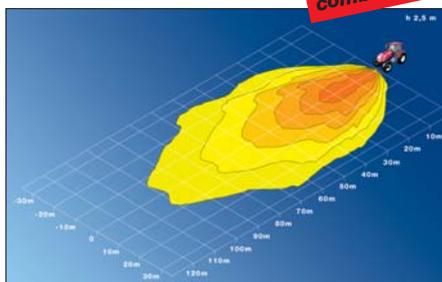
### Advantageous combinations

Oval 100 Xenon Integral	Ground and long-range illumination
Mega Beam Xenon	Ground and long-range illumination
AS 200 Xenon	Ground and long-range illumination
Modul 6213 Xenon	Close-range and long-range illumination
Modul 6213 Double Beam	Ground and off-road illumination
Double Beam H3	Ground and off-road illumination

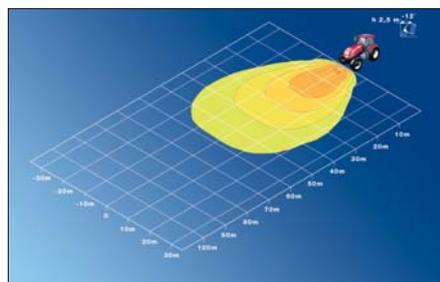
### Less suitable combinations

Ultra Beam H3	Ground and long-range illumination
Mega Beam H3	Ground and long-range illumination
Oval 100 H3	Ground and long-range illumination

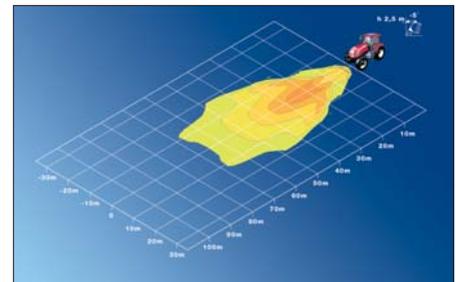
**Example:** Combination of ground and off-road illumination.



**In comparison:** Ground illumination.



**In comparison:** Off-road illumination.





Halogen

Xenon

## **Better light? No problem with retrofitting or converting to xenon worklights!**

Is your customer's vehicle not equipped with worklights yet? Or do the existing worklights not provide optimum light? Then recommend xenon worklights from Hella. For better working quality and more comfort!

Depending on the vehicle's equipment situation, the customer has the possibility of mounting additional worklights on his vehicle or replacing existing ones with more powerful xenon worklights. This also works with flush-mounted worklights.

Many vehicles are equipped with halogen worklights in the format of the "Hella Modul 6213" as standard on delivery. Since the dimensions of the "Hella Modul 6213 Xenon" are identical, the existing opening in the cabin roof can be used.



### **And this is how easy it is to convert to Hella xenon technology using the Hella worklight Modul 6213 Xenon:**

1. Disconnect the battery.
2. Loosen the 2 screws on the halogen headlight, remove the headlight and loosen the connecting cable.
3. Connect the harness for the ballast to the existing cables in the vehicle. Make sure of correct polarity. Protect using a 15A fuse.
4. Insert the harness in the ballast which is fixed in place near the headlight.
5. Use 2 screws to screw the headlight to the vehicle.
6. Reconnect the battery and switch the headlight on.

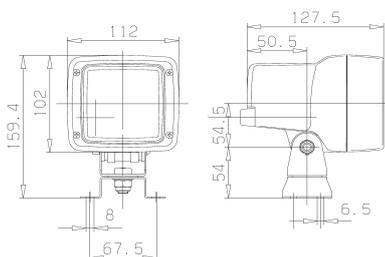


## 5 questions and 5 answers on the subject of selling (buying) worklights!

**1. How much space do you have available to mount a worklight?**

The main factor that determines which model is best for use is how much space is available for installation. Please remember that even small worklights produce a great deal of heat that has to be dissipated. Make sure there is enough space around the worklight. On the range pages you will find a dimensional drawing for each worklight with precise mm specifications to help you find the "fitting" worklight.

**Example:**



**2. Which worklight illuminates your working area best?**

On the basis of the light image (Isolux diagram) you can quickly recognise which worklight your customer needs for the optimum illumination of the required working area. If the left and right worklights are chosen with different light distributions, their combination will provide a particularly large illuminated working area.

► Refer here to the **Isolux diagrams on page 10 and 11; worklight combinations on page 12**

**3. Should the worklight be rotatable and be fitted with a switch?**

If your customer often has to illuminate different working areas, worklights with a handle are recommended. Models with a swivelling base or fitted with a hoop for four-point attachment are easy to turn round.

A special quality feature of the sturdy Hella worklights is the retaining frame made of glass-fibre reinforced plastic with projecting edge to protect the cover lens.

A built-in switch is an advantage if the worklight is to be switched on and off from outside the driver cabin.

► Refer here also to e.g. **AS 200 Xenon on page 44**



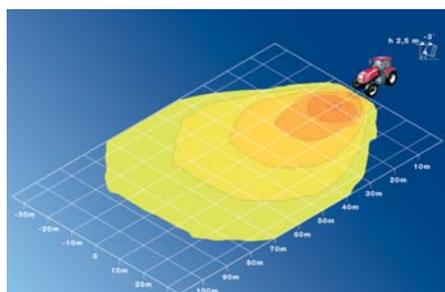
Projecting frame to protect the cover lens.



#### 4. Are the worklights required for long periods of operation or only for short periods?

If your customer needs a worklight for short operating periods, a worklight with a H3 bulb can provide enough light.

With longer operating periods, however, a homogeneous, bright light makes work much more pleasant and efficient. In this case, recommend your customer a worklight with a H9 bulb or a twin reflector. Even better light is provided by the xenon versions.



Oval 100 Xenon Integral: off-road illumination 3°

#### 5. Are hazardous goods transported regularly (GGVS/ADR)?

If your customer regularly transports hazardous goods in accordance with GGVS/ADR, he can use any of the worklights with this symbol. Only these worklights meet the legal requirements.

Watch out for this symbol on the following pages.



Xenon provides 2.5 times more light than a halogen H3 bulb despite a power consumption of only 42 Watts. The light colour is similar to daylight. In short, xenon is the ideal working light in the dark!

- ▶ Refer here to xenon technology, explained on page 6
- ▶ Refer here to the possibility of retrofitting or converting to xenon worklights explained on page 13

- ▶ See the explanation on page 9

On the following pages you will find recommendations for different target groups. We present the most suitable worklights for the respective mounting positions on the vehicle. You can find the complete range in the main Hella catalogue.



## Agriculture

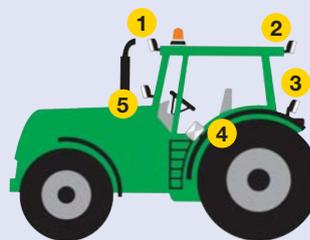
*Harvesting begins: Now, the important thing is to get the harvest in at the optimum time to secure the best possible yields. Working till late at night if necessary! Top-quality worklights from Hella are first choice to ensure combine harvesters and tractors are not suddenly plunged into darkness!*

### Hella worklights offer farmers:

- **Optimised working conditions.** Because more light means better visibility and thus better working results-
- **High functional safety** thanks to a high degree of stability and impact resistance.
- Top quality thanks to comprehensive tests, proving resistance to rain, mud, liquid manure, spraying agents and high-pressure cleaners.
- **Numerous application possibilities** – Hella's large range of worklights and accessories makes this possible.

### Mounting positions:

The following mounting positions are possible:



- 1 Cabin roof, front**  
for long-range orientation and illumination directly in front of the vehicle (surface-mounting or conversion/flush-mounting)
- 2 Cabin roof, rear**  
Alignment to the working area
- 3 Rear mudguard**  
Alignment to the mounted implement
- 4 Step-up lighting**
- 5 Mirror bracket**  
as a tracking light for close-range illumination



**Our recommendation** (details from page 38 onwards)

1 Surface-mounting		2		3		4		5	
 <p><b>Oval 100 H9</b> Off-road illumination ▶ Page 48–49</p>	<p><b>Conversion/flush-mounting</b></p>  <p><b>Oval 100 H3</b> Long-range illumination ▶ Page 48–49</p>	 <p><b>Oval 100 H9</b> Off-road illumination ▶ Page 48–49</p>	 <p><b>Modul 70 H9</b> Close-range illumination ▶ Page 54</p>	 <p><b>Eco 21</b> Close-range illumination ▶ Page 55</p>	 <p><b>Mega Beam H3</b> Ground illumination ▶ Page 52</p>				
 <p><b>Oval 100 H3 Double</b> Long-range illumination ▶ Page 48–49</p>	 <p><b>Modul 6213 Double Beam</b> FF off-road illumination ▶ Page 47</p>	 <p><b>Oval 100 H3 Double</b> Ground illumination ▶ Page 48–49</p>	 <p><b>Mega Beam H3</b> Ground illumination ▶ Page 52</p>	 <p><b>Modul 70 H3</b> Close-range illumination ▶ Page 54</p>	 <p><b>Modul 70 H9</b> Close-range illumination ▶ Page 54</p>				
 <p><b>Oval 100 Xenon Integral</b> Long-range illumination ▶ Page 41</p>	 <p><b>Modul 6213 Xenon</b> Long-range illumination ▶ Page 46</p>	 <p><b>Oval 100 Xenon Integral</b> Ground illumination ▶ Page 41</p>	 <p><b>Oval 100 H3</b> Ground illumination ▶ Page 48–49</p>		 <p><b>Rotatable pipe bracket</b> ▶ Page 56</p>				
		 <p><b>Mega Beam H3</b> Ground-/Off-road illumination ▶ Page 52</p>							

These recommendations are only an extract from our complete range of worklights. The complete range – including older worklights models – can be found in the current main Hella catalogue.



# Agriculture

## Mounting positions:

## Our recommendation (details from page 38 onwards)

The following mounting positions are possible:



- |   |   |
|---|---|
| <p><b>1 Cabin roof, front</b><br/>for long-range orientation off-road and for illumination directly in front of the vehicle</p> <p><b>2 Cabin roof, front</b><br/>Alignment downwards onto the reciprocating finger bar mover</p> <p><b>3 Mirror bracket</b><br/>Alignment diagonally forwards to the ends of the reciprocating finger bar mover</p> <p><b>4 Cabin, bottom</b><br/>Alignment over the reciprocating finger bar mover to what is being cut</p> | <p><b>5 Side wall, top</b><br/>Illumination along the side</p> <p><b>6 Rear wall</b><br/>For orientation to the rear</p> <p><b>7 On the corn tank</b><br/>To light up the ejection pipe</p> <p><b>8 In the corn store</b><br/>For interior lighting</p> <p><b>9 Step-up</b><br/>To light up the step-up</p> |
|---|---|

1	2	3
 <b>Oval 100 H9</b> Off-road illumination ► Page 48-49	 <b>Modul 70 H9</b> Ground illumination ► Page 54	 <b>Ultra Beam H9</b> Off-road illumination ► Page 50-51
 <b>Oval 100 H3 Double</b> Long-range illumination ► Page 48-49	 <b>Ultra Beam H3</b> Ground illumination ► Page 50-51	 <b>Oval 100 H9</b> Off-road illumination ► Page 48-49
 <b>Oval 100 Xenon Integral</b> Long-range illumination ► Page 41	 <b>Mega Beam H3</b> Ground illumination ► Page 52	 <b>Oval 100 H3 Double</b> Ground illumination ► Page 48-49
 <b>AS 200 Xenon</b> Long-range illumination ► Page 44	 <b>Oval 100 H3</b> Ground illumination ► Page 48-49	 <b>Oval 100 Xenon Integral</b> Ground illumination ► Page 41



4



**Modul 70 H9**  
Ground illumination  
▶ Page 54



**Mega Beam H3**  
Ground illumination  
▶ Page 52



**Ultra Beam H3**  
Ground illumination  
▶ Page 50-51



**Oval 100 H3**  
Ground illumination  
▶ Page 48-49

5



**Oval 100 H3**  
Ground illumination  
▶ Page 48-49



**Oval 100 H9**  
Off-road illumination  
▶ Page 48-49



**Ultra Beam H9**  
Off-road illumination  
▶ Page 50-51

6



**Oval 100 H3**  
Long-range illumination  
▶ Page 48-49



**Oval 100 H9**  
Off-road illumination  
▶ Page 48-49



**Ultra Beam H9**  
Off-road illumination  
▶ Page 50-51

7



**Modul 70 H3**  
Long-range illumination  
▶ Page 54



**Ultra Beam H3**  
Long-range illumination  
▶ Page 50-51



**Oval 100 H3**  
Long-range illumination  
▶ Page 48-49



**Mega Beam H3**  
Off-road illumination  
▶ Page 52

8



**Eco 21**  
Close-range illumination  
▶ Page 55



**Mega Beam LED**  
Close-range illumination  
▶ Page 40

9



**Eco 21**  
Close-range illumination  
▶ Page 55



**Modul 70 H3**  
Close-range illumination  
▶ Page 54

These recommendations are only an extract from our complete range of worklights. The complete range – including older worklights models – can be found in the current main Hella catalogue.



## Agriculture – accessories

### Pipe socket mounting

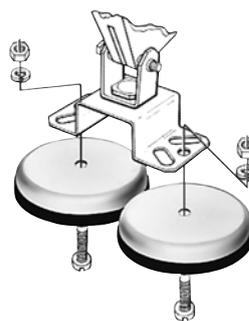


Once the vehicle has arrived at the field, the beacon can be removed and the worklight inserted instead.

► See page 56-57



### Magnetic base



The magnetic base can be used to fix the worklight flexibly anywhere on the vehicle, for servicing work for example.

► See page 56-57

### Rotatable pipe bracket



With this pipe bracket, worklights can be fixed quite easily to mirror brackets, for example.

► See page 56-57



In addition, we recommend beacons from Hella for increased safety!

KL Rotaflex FL



Part number

2RL 006 846-001, 12 V

KLX JuniorPlus FL



Part number

2XD 009 052-001, 12 V

**Xenon**

KL JuniorPlus FL



Part number

2RL 008 967-001, 12 V

These recommendations are only an extract from our complete range of worklights. The complete range – including older worklights models – can be found in the current main Hella catalogue.



## Construction vehicles

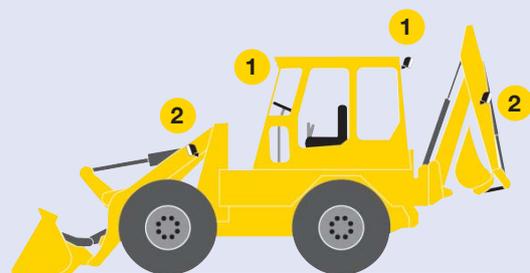
Rain, mud, dust, high-pressure cleaners, extreme impact and vibration – on building sites machines and material are exposed to the toughest of demands. To guarantee the function here, you should rely on top-quality worklights from Hella!

### Hella worklights for the building site:

- Better visibility for the driver and thus **greater productivity** and **lower risk of accident** in the dark.
- **Sturdy headlight design** for use under tough conditions.

### Mounting positions:

The following mounting positions are possible:



#### 1 Roof front/rear

Alignment to the front/rear working area

- for mini diggers
- for small to medium-sized construction machines

#### 2 Digger boom front/rear

Alignment to the shovel



**Our recommendation** (details from page 38 onwards)

**1** Mini digger



**Modul 70 H3**  
Close-range illumination  
▶ Page 54



**Modul 70 H9**  
Close-range illumination  
▶ Page 54

**2**



**Modul 70 H3**  
Close-range illumination  
▶ Page 54

**1** Small to medium-sized construction machines



**Mega Beam H3**  
Ground illumination  
▶ Page 52



**Oval 100 H3 Double**  
Ground illumination  
▶ Page 48-49



**Mega Beam LED**  
Close-range illumination  
▶ Page 40



**Mega Beam Xenon**  
Ground illumination  
▶ Page 42



**Oval 100 Xenon Integral**  
Ground illumination  
▶ Page 41



**Oval 100 H3**  
Ground illumination  
▶ Page 48-49

These recommendations are only an extract from our complete range of beacons. The complete range can be found in the current main Hella catalogue or the current beacon brochure.

## Accessories

In addition, we recommend beacons from Hella for increased safety!

**KLX 7000 F**



Part numbers

2RL 008 181-101, 12 V  
2RL 008 181-111, 24 V

**KL Rotafix M**



Part numbers

2RL 007 337-021, 12 V  
2RL 007 337-031, 24 V

**K-LED, Multi-voltage 9-32 V**



Part numbers

Housing colour Orange  
2XD 009 386-001



Housing colour Silver  
2XD 009 386-101



Housing colour Black  
2XD 009 386-401



These recommendations are only an extract from our complete range of beacons. The complete range can be found in the current main Hella catalogue or the current beacon brochure.



## Commercial Vehicles

### When operators of heavy-duty vehicles need a clear view!

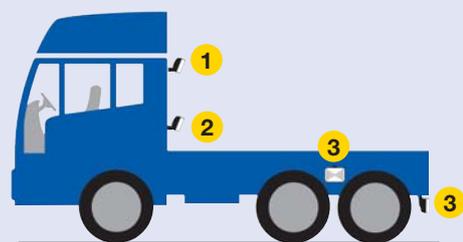
Commercial vehicles are used in a wide range of fields and environments. Whether in long-haul or local traffic, on construction vehicles or for transporting hazardous goods. Hella provides tailor-made solutions for all sorts of conceivable applications.

#### Hella worklights for commercial vehicles:

- **High quality** thanks to comprehensive tests. Sturdy headlight design.
- **Wide range of designs** thanks to large product range – guaranteed the right light for every truck.
- Some of the **worklights are GGVS-tested** – meaning the best possible equipment, even for hazardous goods transporters. 
- Suitable light for every application through **special solutions** – special reversing spotlights, for example. ► **See page 58-59**

#### Mounting positions:

The following mounting positions are possible:



- 1 Cabin, top**  
Alignment to the loading area, ground illumination
- 2 Cabin, bottom**  
Alignment to the coupling, close-range illumination
- 3 Vehicle rear/side**  
Reversing spotlights for orientation when manoeuvring



**Our recommendation** (details from page 38 onwards)

1



**Ultra Beam H3**  
Ground illumination  
▶ Page 50–51

2



**Eco 21**  
Ground illumination  
▶ Page 55

3



**Comet 450**  
Reversing spotlight  
▶ Page 59



**Double Beam H3**  
Ground illumination  
▶ Page 53



**Modul 70 H3**  
Ground illumination  
▶ Page 54



**Comet 550**  
Reversing spotlight  
▶ Page 59



**Oval 100 H3 Double**  
Ground illumination  
▶ Page 48–49



**Ultra Beam H3**  
Ground illumination  
▶ Page 50–51



**Ultra Beam**  
Reversing spotlight  
▶ Page 59

These recommendations are only an extract from our complete range of worklights. The complete range – including older worklights models – can be found in the current main Hella catalogue.

## Accessories

In addition, we recommend beacons from Hella for increased safety!

### KL 7000 F



Part number

2RL 008 061-111, 24 V

### KL 8000 F



Part number

2RL 008 065-111, 24 V

### KLX 7000 F



Part number

2RL 008 181-111, 24 V

### K-LED, Multi-voltage 9–32 V



Part numbers

Housing colour Orange  
2XD 009 386-001



Housing colour Silver  
2XD 009 386-101



Housing colour Black  
2XD 009 386-401



These recommendations are only an extract from our complete range of beacons. The complete range can be found in the current main Hella catalogue or the current beacon brochure.



## Municipal vehicles

### Clean work!

Whether in the middle of the night or in the early morning. When most people are still asleep, municipal workers remove waste and make sure the roads are clear. And to enable the professionals to carry out clean work, they should only use worklights from the professionals!

#### This is what Hella worklights have to offer municipalities:

- Homogeneously **bright illumination** of the working area.
- **Functional safety** prevents unnecessary down-times due to faulty light sources. The time saved can be used for more important work.
- Hella reversing spotlights meet the **legal requirements**, providing legal certainty.

### Mounting positions: for 24 V municipal vehicles

The following mounting positions are possible:



- |  |  |
|--|--|
| <p><b>1 Surface-mounting rear/front</b><br/>Alignment to the working area<br/>Ground illumination</p>      | <p><b>3 Vehicle, rear/side</b><br/>Reversing spotlights for orientation when manoeuvring</p> |
| <p><b>2 Side of the vehicle, bottom</b><br/>Alignment to the working implement<br/>Ground illumination</p> |  |



## Accessories

In addition, we recommend beacons from Hella for increased safety!

Our recommendation (see page 38 onwards)

1



**Ultra Beam H3**  
Ground illumination  
► Page 50-51

2



**Ultra Beam H3**  
Ground illumination  
► Page 50-51



**Eco 21**  
Ground illumination  
► Page 55



**Oval 100 H3**  
Ground illumination  
► Page 48-49



**Modul 70 H3**  
Ground illumination  
► Page 54



**Mega Beam LED**  
Ground illumination  
► Page 40

3



**Double Beam H3**  
Ground illumination  
► Page 53



**Ultra Beam**  
Reversing spotlight  
► Page 59

These recommendations are only an extract from our complete range of worklights. The complete range – including older worklights models – can be found in the current main Hella catalogue.

### KLX 7000 F



Part number

2RL 008 181-111, 24 V

### KLX JuniorPlus FL



Part number

2XD 009 052-011, 24 V

### KL Rotaflex FL



Part number

2RL 006 846-011, 24 V

### K-LED, Multi-voltage 9-32 V



Part numbers

Housing colour Orange  
2XD 009 386-001



Housing colour Silver  
2XD 009 386-101



Housing colour Black  
2XD 009 386-401



These recommendations are only an extract from our complete range of beacons. The complete range can be found in the current main Hella catalogue or the current beacon brochure.



## Municipal vehicles

### Mounting positions for 12 V municipal vehicles

The following mounting positions are possible:



#### 1 Roof, top

- Alignment to the rear (loading area)
- Alignment at the side (working area next to the vehicle)

### Our recommendation (details from page 38 onwards)

1



**Modul 70 H9**  
Ground illumination  
► Page 54



**Double Beam H3**  
Ground illumination  
► Page 53



**Ultra Beam H9**  
Off-road illumination  
► Page 50–51



**Oval 100 H3 Double**  
Ground illumination  
► Page 48–49

These recommendations are only an extract from our complete range of worklights. The complete range – including older worklights models – can be found in the current main Hella catalogue.



## Accessories

In addition, we recommend beacons and optical warning systems from Hella for increased safety!

### AS 200 Xenon with magnetic bracket



Maximum flexibility thanks to magnetic bracket, 2.5 m connection cable with 2-pole plug and on/off switch. Mobile working light. ▶ See page 44

### KLX JuniorPlus FL



Part number

2XD 009 052-001, 12 V

### OWS-QS



Various lengths, lighting systems and additional options available. More detailed information can be found in the Hella catalogues or obtained upon request.

### Magnetic bracket



For the flexible use of the worklight anywhere on the vehicle.

▶ See page 56–57

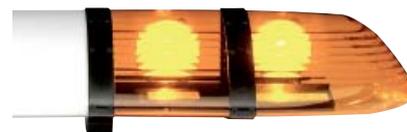
### KLX 7000 F



Part number

2RL 008 181-101, 12 V

### OWS-MR (multiple-reflector system)



Various lengths, lighting systems and additional options available. More detailed information can be found in the Hella catalogues or obtained upon request.

These recommendations are only an extract from our range. The complete range can be found in the current main Hella catalogue or the current beacon brochure.



## Emergency vehicles

### Always ready to go!

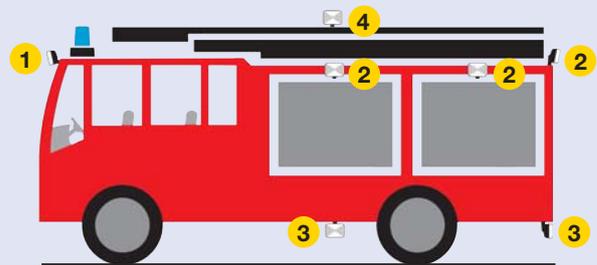
When the emergency call comes into the control centre, things have to move quickly. Into the vehicles and off to the site of the emergency. Once there, it is important to get an overall view of what has happened – no matter what the natural lighting conditions are. Day and night.

#### This is where Hella's worklights can help:

- Homogeneously **bright illumination** of the emergency area.
- **Functional safety** is guaranteed – there is no danger of sudden failure partway through the emergency operation..
- **Special application variants** – thus there is a solution available for every purpose.
- Hella reversing spotlights meet all **legal requirements**.

### Mounting positions:

The following mounting positions are possible:



- |  |   |
|--|---|
| <p><b>1 Surface-mounted, front</b><br/>Alignment to the front onto the working/search area<br/>Long-range illumination</p> | <p><b>3 Vehicle rear/side</b><br/>Reversing spotlights for orientation when manoeuvring</p>                   |
| <p><b>2 Side of the vehicle top / vehicle rear/</b><br/>Alignment to the working area<br/>Ground illumination</p>          | <p><b>4 Vehicle roof or mobile on a tripod</b><br/>Emergency lighting, ground and long-range illumination</p> |



Our recommendation (details from page 38 onwards)

1



**AS 200 Xenon**  
Long-range illumination  
▶ Page 44

2 Surface-mounting



**Ultra Beam H3**  
Ground illumination  
▶ Page 50-51

2 Flush-mounting



**Modul 6213 Xenon**  
Ground illumination  
▶ Page 46

3



**Ultra-Beam**  
Reversing spotlight  
▶ Page 50-51

4



**Ultra Beam H3**  
with pipe socket mounting  
Ground and long-range illumination  
▶ Page 50-51



**Double Beam H3**  
Ground illumination  
▶ Page 53



**Flush-mounting recess**  
for Ultra Beam Xenon  
▶ Page 43



**AS 200 Xenon with magnetic base**  
Ground and long-range illumination  
▶ Page 44



**Oval 100 Xenon Integral**  
Ground illumination  
▶ Page 41



**AS 400 Xenon**  
Ground illumination  
▶ Page 44



**AS 200 Xenon**  
only for operation with current generator  
Ground and long-range illumination  
▶ Page 44

12 V

230 V - only 42 W

These recommendations are only an extract from our complete range of worklights. The complete range – including older worklights models – can be found in the current main Hella catalogue.



## Emergency vehicles – accessories

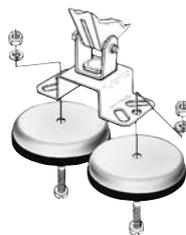
AS 200 Xenon with magnetic base



Maximum flexibility thanks to magnetic base, 2.5m connection cable with 2-pole plug and on/off switch. Daylight-level illumination for the operational area.

► See page 44

Magnetic base



For the flexible use of the worklight anywhere on the vehicle.

► See page 56–57

RTK-QS



Various lengths, lighting systems and additional options available. More detailed information can be found in the Hella catalogues or obtained upon request.

These recommendations are only an extract from our range for emergency vehicles. The complete range can be found in the current main Hella catalogue/the current brochure.



In addition, we recommend optical and acoustic warning systems from Hella for increased safety!

KL 8000 F	KLX 7000 F	KLX	BSX-Micro
			
Part number	Part number	Part number	Part number
2RL 008 065-001, 12 V 2RL 008 065-011, 24 V	2RL 008 181-001, 12 V 2RL 008 181-011, 24 V	2RL 007 017-041, 12 V 2RL 007 017-051, 24 V	2XD 007 854-801, 12 V 2XD 007 854-811, 24 V

These recommendations are only an extract from our range for emergency vehicles. The complete range can be found in the current main Hella catalogue/the current brochure.



## Towing vehicles

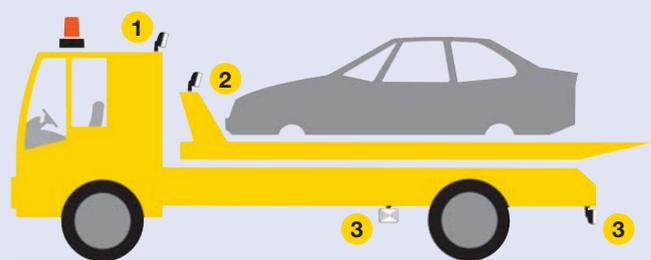
When a vehicle has broken down and has to be towed off the motorway by the breakdown service, speed is of the essence. Because no-one wants to be in such a dangerous environment for longer than absolutely necessary. To ensure everything goes smoothly without endangering their own safety, towing vehicles should be equipped with high-quality worklights. Because then work will be much easier and the vehicle hooked up in no time.

### Hella worklights for towing vehicles, because:

- Towing vehicles that come to the aid of faulty vehicles should be in perfect working condition themselves. Particularly as far as lighting is concerned – for the sake of speed and safety.
- Worklights from Hella guarantee high functional safety and thus a continuous standby status. Brand quality pays in the long run.

### Mounting positions:

The following mounting positions are possible:



- |  |  |
|--|--|
| <p><b>1 Cabin, top</b><br/>Alignment to the rear (loading area)<br/>Alignment at the side (working area next to the vehicle)</p> | <p><b>3 Vehicle, rear/side</b><br/>Reversing spotlights for orientation when manoeuvring</p> |
| <p><b>2 Cabin/loading area bottom</b><br/>Alignment to the loading area<br/>Close-range/ground illumination</p>                  |  |



## Accessories

In addition, we recommend optical warning systems from Hella for increased safety!

Our recommendation (details from page 38 onwards)

1



**Mega Beam H3 with handle**  
Ground illumination  
▶ Page 52



**Double Beam H3 with handle**  
Ground illumination  
▶ Page 53



**AS 200 Xenon with integrated handle**  
Ground illumination  
▶ Page 44



**Ultra Beam H9 with handle**  
Off-road illumination  
▶ Page 50-51

only for 12 V



**Ultra Beam H3 with pipe socket mounting**  
Ground illumination  
▶ Page 50-51



**Bracket mounting base for pipe socket mounting**  
▶ Page 56-57

2



**Modul 70 H3**  
Close-range illumination  
▶ Page 54



**Ultra Beam H3 with handle**  
Ground illumination  
▶ Page 50-51



**Mega Beam H3 with handle**  
Ground illumination  
▶ Page 52

3



**Ultra Beam**  
Reversing spotlight  
▶ Page 59

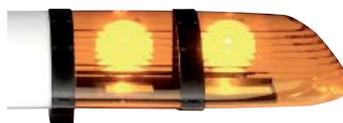
These recommendations are only an extract from our complete range of worklights. The complete range – including older worklights models – can be found in the current main Hella catalogue.

### OWS-QS



Various lengths, lighting systems and additional options available. More detailed information can be found in the Hella catalogues or obtained upon request.

### OWS-MR (multiple-reflector system)



Various lengths, lighting systems and additional options available. More detailed information can be found in the Hella catalogues or obtained upon request.

### BSX-Micro "The road clearer"



Part number

2XD 007 854-821, 12 V  
2XD 007 854-831, 24 V

These recommendations are only an extract from our range. The complete range can be found in the current main Hella catalogue/the current brochure.



## Fork-lift trucks

*In the logistics business time is money. When goods have to be moved as quickly as possible to the required spot, it is important to save all the time possible. This cannot be at the expense of precision and safety, however. This is where worklights come in, because those who see more, work more quickly, precisely and safely!*

### Hella worklights for fork-lift trucks:

- Hella brand quality guarantees the **best possible functional safety**. In this way, losses of productivity through lighting failure can be avoided.
- The **compact design size** of some worklights enables them to be flush-mounted almost anywhere – and thus for almost any purpose.
- Hella's **large worklight range** provides a **unique variety of versions** – with a suitable solution for every application in the range somewhere.

### Mounting positions:

The following mounting positions are possible:



- |  |  |
|--|--|
| <p><b>1 Roof front/rear</b></p> <ul style="list-style-type: none"> <li>■ Alignment to the goods on the fork</li> <li>■ Ground and long-range illumination</li> <li>■ For orientation to the front/rear</li> <li>■ Close-range/ground illumination</li> </ul> | <p><b>2 Fork, front</b></p> <ul style="list-style-type: none"> <li>■ Alignment to the goods on the fork</li> <li>■ Close-range illumination</li> </ul> |
|--|--|



## Accessories

### Our recommendation

(details from page 38 onwards)

1



**Modul 70 H3**  
Close-range illumination  
▶ Page 54



**Mega Beam H3**  
Ground illumination  
▶ Page 52



**Modul 70 H9**  
Close-range illumination  
▶ Page 54



**Ultra Beam H3**  
Ground illumination  
▶ Page 50-51



**Mega Beam LED**  
Close-range illumination  
▶ Page 40

These recommendations are only an extract from our complete range of worklights. The complete range – including older worklights models – can be found in the current main Hella catalogue.

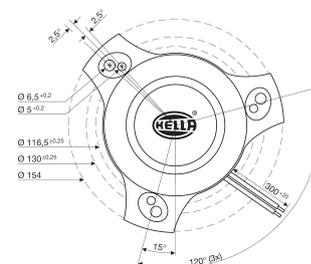
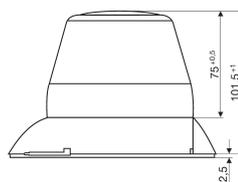
2



**Mega Beam LED**  
Close-range illumination  
▶ Page 40

In addition, we recommend beacons from Hella for increased safety!

**KLX 1**, Multi-voltage 9–92 V\*

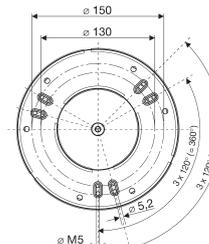
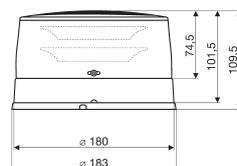


Part number

2XD 009 224-001, Amber  
2XD 009 224-011, Red

These recommendations are only an extract from our complete range of beacons. The complete beacon range can be found in the current main Hella catalogue or the current beacon brochure.

**K-LED**, Multi-voltage 9–32 V\*



Part numbers

Housing colour Orange  
2XD 009 386-011

Housing colour Silver  
2XD 009 386-111

Housing colour Black  
2XD 009 386-411

\* Without ECE approval. For use only where legally permitted.

Not approved for use within the public road system in the Federal Republic of Germany.



## Range summary

	<b>LED</b> Page 40	<b>Xenon</b> Page 41–46	<b>Halogen H9, 12 V</b> Page 47–55
Surface-mounted version	 <p><b>Mega Beam LED</b></p>	 <p><b>Oval 100 Xenon Integral</b></p>  <p><b>Ultra Beam Xenon</b></p>  <p><b>Mega Beam Xenon</b></p>	 <p><b>Oval 100 H9</b></p>  <p><b>Modul 70 H9</b></p>  <p><b>Ultra Beam H9</b></p>
Version with handle		 <p><b>AS 200 Xenon</b></p>  <p><b>AS 400 Xenon</b></p>	 <p><b>Ultra Beam H9 with handle (pipe socket mounting)</b></p>
Flush-mounted version		 <p><b>Modul 6213</b></p>  <p><b>Ultra Beam Xenon with flush-mounting recess</b></p>	



**Halogen H3** Page 47–55

**P21W** Page 55

Surface-mounted version



Oval 100 H3



Ultra Beam H3



Modul 70 H3



Eco 21



Mega Beam H3



Double Beam H3

Version with handle



Mega Beam H3 with handle



Double Beam with handle



Ultra Beam H3 with handle



Ultra Beam H3 with pipe socket mounting

Flush-mounted version



Oval 100 H3



Modul 6213 Double Beam

These recommendations are only an extract from our complete range of worklights. The complete range – including older worklights models – can be found in the current main Hella catalogue.



Mega Beam LED

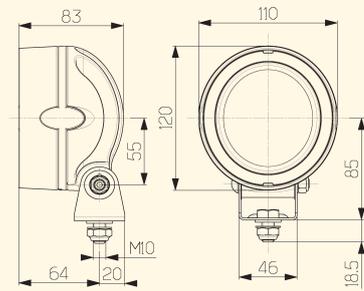
## Mega Beam LED

**Only 7 W**

### The most important features:

- Minimum power consumption of only 7 Watts
- Replacement of the light source no longer necessary thanks to extremely long LED service life
- Close-range illumination
- Multi-voltage: 9 V–33 V for vehicles with 12 V or 24 V vehicle electric systems  
36 V–80 V for electric fork-lift trucks with 48 V or 80 V vehicle electric systems

► For further benefits of innovative LED technology see page 5



	Close-range illumination	Upright surface-mounting	Pendant surface-mounting	Multi-voltage	4 LEDs (7 W)	FF reflectors	Connection cable 2 m	Potted cable version	Protective category IP 5K9K
<b>1GM 996 136-101</b>	■	■		9–33 V	■	■	■	■	■
<b>1GM 996 136-111</b>	■		■	9–33 V	■	■	■	■	■
<b>1GM 996 136-131</b>	■	■		36–80 V	■	■	■	■	■

■ Standard features



Oval 100 Xenon Integral

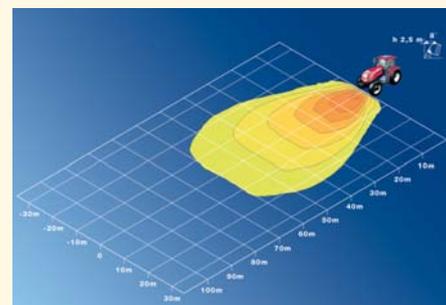
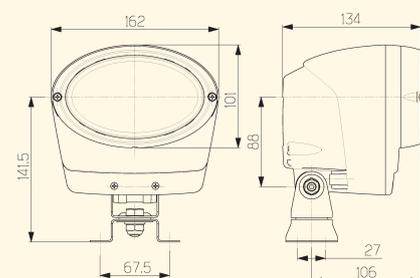
## Oval 100 Xenon Integral

### The most important features:

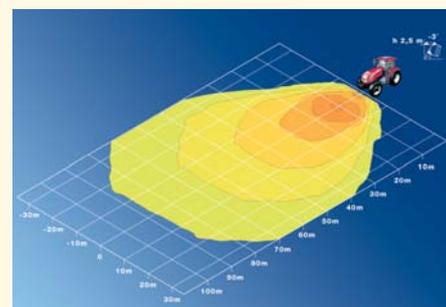
- Xenon ballast integrated in the compact housing rather than mounted separately
- Additional black glass retaining ring included as standard
- Headlight base made of stainless steel, with sturdy four-point attachment
- Versions for upright surface-mounting\*
- Can easily be used to replace existing halogen worklight

► For further information about xenon technology see page 6

\* For further versions with DEUTSCH plug connection and for pendant mounting see the main Hella catalogue



Ground illumination 8°



Off-road illumination 3°

	Ground illumination	Off-road illumination	Attachment bracket for 4-point attachment	Upright surface-mounting	Voltage (42 W)	AMP plug connection	Protective category IP 5K4K
1GA 996 261-561	■		■	■	12 V	■	■
1GA 996 261-571	■		■	■	24 V	■	■
1GA 996 261-581		■	■	■	12 V	■	■

■ Standard features

### Spare parts

Part no.	Description
8GS 009 028-001	Xenon bulb D1S

### Accessories

Part no.	Description
8KB 990 299-111	Connection cable 3.1 m with 12 V relay, fuse, AMP plug
8KB 990 299-121	Connection cable 3.1 m with 24 V relay, fuse, AMP plug



Mega Beam Xenon

## Mega Beam Xenon

### The most important features:

- Separable xenon ballast with xenon bulb D1S
- Ballast is equipped with a plug connection for the 3 m connection cable to the headlight
- Swivelling base with shock absorber

► For further information about xenon technology see page 6

	Ground illumination	Long-range illumination	Stainless steel parts (seawater-proof)	Attachment bracket for 4-point mounting	Upright surface-mounting	Ballast (42 W)	Protective category IP 5K4K
<b>1GM 996 135-141</b>	■		■	■	■	■ 12 V	■
<b>1GM 996 135-151</b>	■		■	■	■	■ 24 V	■
<b>1GM 996 135-111</b>		■	■	■	■	● 12 V ● 24 V	■

- Standard features
- without ballast

### Accessories necessary for mounting

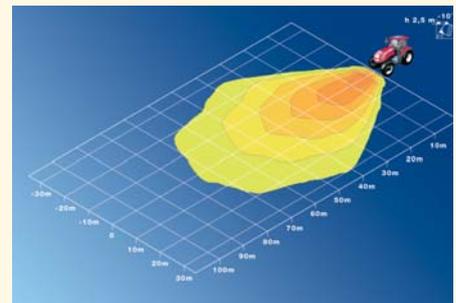
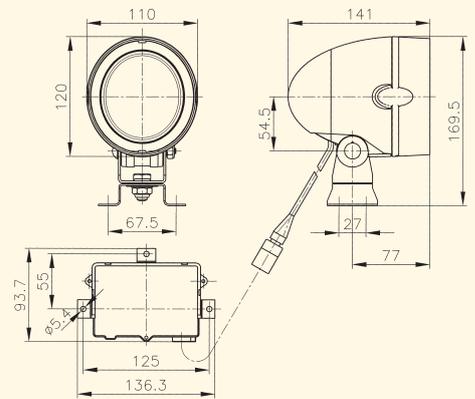
Part no.	Description
8KB 990 299-221	Connection cable 3.1 m with 12 V relay, fuse
8KB 990 299-231	Connection cable 3.1 m with 24 V relay, fuse

### for version 1GM 996 135-111

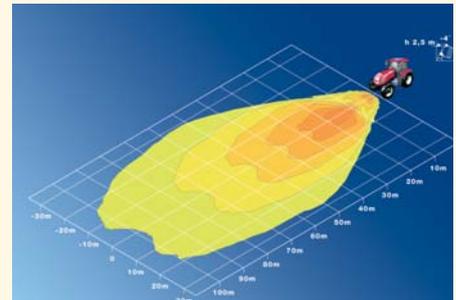
5DV 008 855-001	12 V ballast
5DV 008 856-001	24 V ballast

### Spare parts

Part no.	Description
8GS 009 028-001	Xenon bulb D1S
1GM 990 303-151	Headlight insert for ground illumination



Ground illumination 10°



Long-range illumination 4°



Ultra Beam Xenon

## Ultra Beam Xenon

### The most important features:

- Ballast is equipped with a plug connection for the 3 m connection cable to the headlight
- Swivelling base with shock absorber
- Flush-mounted version, also suitable for inclined flush-mounting with additional flush-mounting recess (accessory)

► For further information about xenon technology see page 6

	Ground illumination	Shock absorber in the base	Attachment bracket for 4-point mounting	Upright surface-mounting	Ballast (42 W)	Protective category IP 5K4K
Surface-mounted version						
<b>1GA 998 534-221</b>	■	■	■	■	■ 12 V	■
<b>1GA 998 534-231</b>	■	■	■	■	■ 24 V	■
Flush-mounted version						
<b>1GA 998 534-541</b>	■				■ 24 V	

■ Standard features

### Accessories necessary for mounting

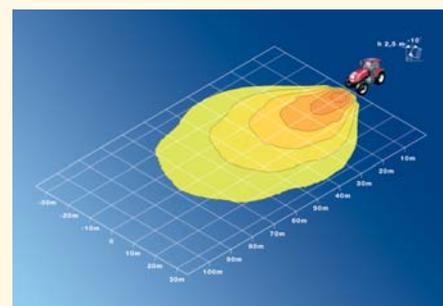
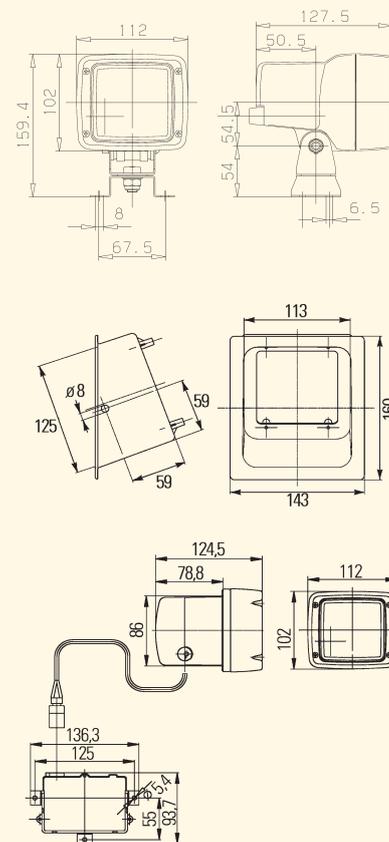
Part no.	Description
8KB 990 299-221	Connection cable 3.1 m with 12 V relay, fuse
8KB 990 299-231	Connection cable 3.1 m with 24 V relay, fuse

### Accessories (optional)

Part no.	Description
9BG 990 353-001	Flush-mounting recess, inclination 20° (only for flush-mounted version)

### Spare parts

Part no.	Description
8GS 009 028-001	Xenon bulb D1S
1GA 998 525-071	Headlight insert



Ground illumination 10°



Surface-mounted version



Mobile version with magnetic base AS 400 Xenon

## AS 200 Xenon

### The most important features:

- 12 V, 24 V or 230 V ballast integrated in the housing, with D2S xenon bulb
- 230 V version – only for use with 230V power generators
- Housing with integrated handle recess

### ► For further information about xenon technology see page 6

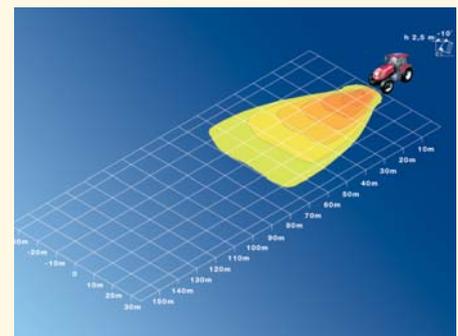
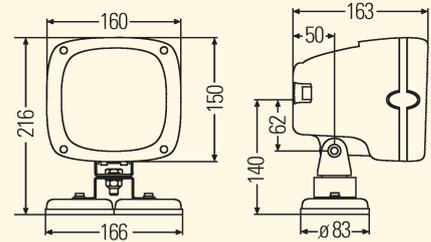
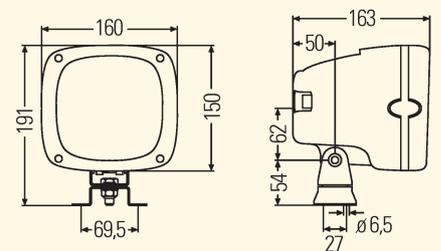
\* For further versions with DEUTSCH plug connection and for pendant mounting see the main Hella catalogue

	Ground illumination	Long-range illumination	On/off switch (relay and fuse integrated)	Attachment bracket for 4-point mounting	Upright surface-mounting	AMP plug connection with protective cap	Ballast (42 W)	Connection cable 10 m with plug with earthing contact	Connection cable 3.1 m with relay and fuse	Connection cable 2.5 m	Protective category IP 5K4K	Protective category IP X9K (resistant to high-pressure cleaners)
Surface-mounted version												
1GA 996 142-001	■			■	■	■	■ 12 V		■		■	■
1GA 996 142-011	■			■	■	■	■ 24 V		■		■	■
1GA 996 142-061		■		■	■	■	■ 12 V		■		■	■
1GA 996 142-071		■		■	■	■	■ 24 V		■		■	■
1GA 996 142-081		■	■	■	■	■	■ 12 V			■	■	
1GA 996 142-091		■	■	■	■	■	■ 24 V			■	■	
Mobile version with magnetic base												
1GA 996 142-041	■		■		■		■ 12 V				■	■
Surface-mounted version for operation with power generator (230 V)												
1GA 996 142-241	■				■		■ 230 V	■				
1GA 996 142-251		■			■		■ 230 V	■				

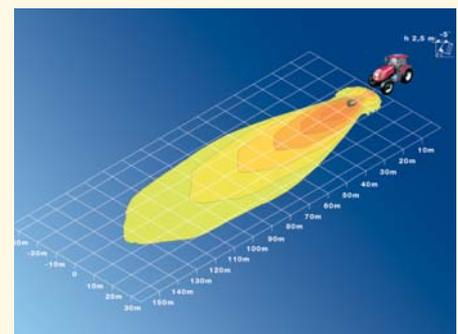
■ Standard features

### Spare part

Part no.	Description
8GS 007 949-101	Xenon bulb D2S



Ground illumination 10°



Long-range illumination 5°



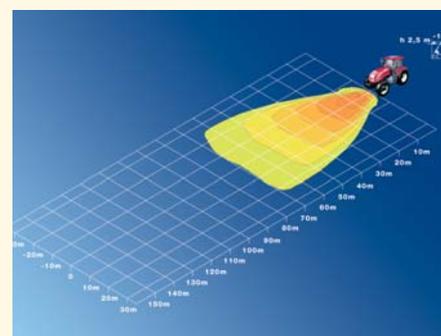
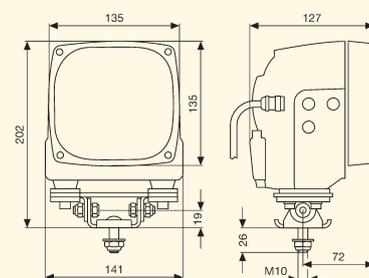
AS 400 Xenon

## AS 400 Xenon

### The most important features:

- Developed for heavy-duty use
- Sturdy housing made of diecast aluminium with integrated handle recess
- Special headlight base made of stainless steel with sophisticated vibration damping for extreme impact and vibration loads
- For upright permanent mounting
- Ballast integrated in the housing, with xenon bulb D1S
- Connection cable 2 m long from sealed metal screw fixture

► For further information about xenon technology see page 6



Ground illumination 10°

	Ground illumination	Long-range illumination	Housing made of diecast aluminium	Heavy-duty attachment	Upright surface-mounting	Ballast (42 W)	Connection cable 2 m long + Deutsch plug	Protective category IP5K4K	Protective category IPX9K
Surface-mounted version									
<b>1GA 996 242-111</b>	■		■	■	■	■ 24 V	■	■	■

■ Standard features

### Spare part

Part no.	Description
8GS 009 028-001	Xenon bulb D1S



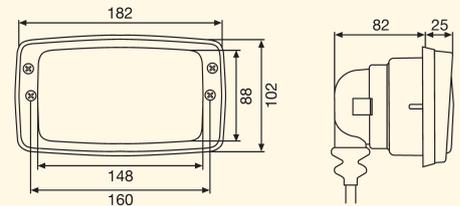
Modul 6213 Xenon

## Modul 6213 Xenon

### The most important features:

- For the easy conversion of halogen versions of the Modul 6213 series or comparable flush-mounted worklights to xenon light
- External ballast is connected firmly to the headlight by a cable 300 mm long
- Flush-mounted version with attachment screws, inclination can be adjusted by 7°

► For further information about xenon technology see page 6



Close-range illumination	Long-range illumination	Rubber housing to seal the fitting opening	Reflector inclination can be adjusted by 7°	Connection cable 3.1 m with relay and fuse	Protective category IP 5K4K	Ballast (42 W) firmly connected
--------------------------	-------------------------	--	---	--	-----------------------------	---------------------------------

Flush-mounted version with red glass retaining frame	■		■	■	■	■	■	12 V
Flush-mounted version with black glass retaining frame		■		■			■	12 V

■ Standard features

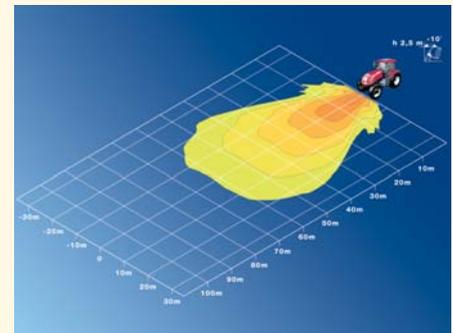
### Accessories necessary for mounting

#### for part no. 1GB 996 147-101

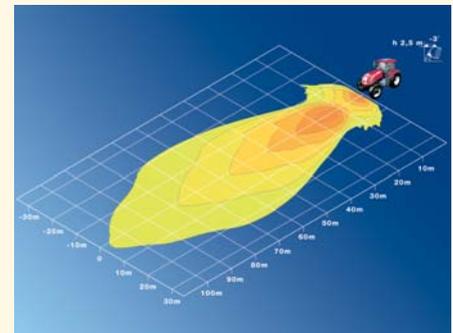
8KB 149 147-001 Connection cable 3.1 m with 12 V relay and fuse

### Spare part

Part no.	Description
8GS 007 949-101	Xenon bulb D2S



Close-range illumination 10°



Long-range illumination 3°



Modul 6213/Modul 6213 Double Beam H3

## Modul 6213/Modul 6213 Double Beam H3

### The most important features of Modul 6213:

- Worklight for flush-mounting in popular design with single or FF twin reflector
- Reflector inclination can be adjusted by 7° in the retaining frame
- Attachment using the 2 fastening screws included in the scope of supply

### The most important features of Modul 6213 Double Beam H3:

- Modul 6213 Double Beam H3 has three times the light output of conventional worklights of the same design size

► For further information about xenon technology see page 6

	Long-range illumination	Close-range illumination	Ground illumination	Off-road illumination	Protective category IP 5K4K	Single reflector	Twin reflector
Flush-mounted version Modul 6213							
<b>1GB 006 213-101</b>	■						■
<b>1GB 006 213-111</b>		■			■	■	
Flush-mounted version Modul 6213 Double Beam H3							
<b>1GB 996 080-021</b>				■	■		■
<b>1GB 996 080-011</b>			■		■		■

■ Standard features

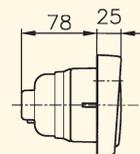
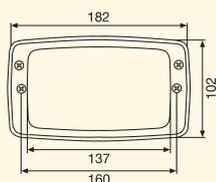
### Accessories

Part no.	Description
9BG 993 345-001	Rubber housing to seal the fitting opening

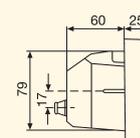
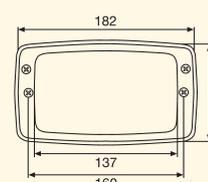
### Spare parts

Part no.	Description
8GH 002 090-271	Halogen bulb H3 12 V/35 W
8GH 002 090-133	Halogen bulb H3 12 V/55 W
8GH 002 090-251	Halogen bulb H3 24 V/70 W

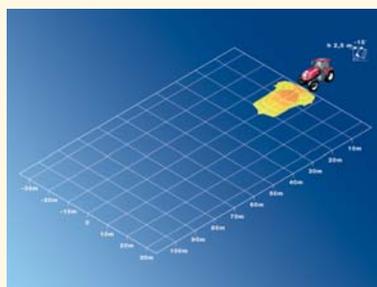
Modul 6213



Modul 6213 Double Beam H3

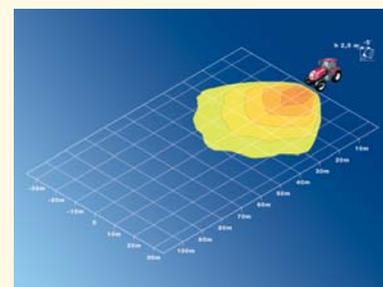


Modul 6213:

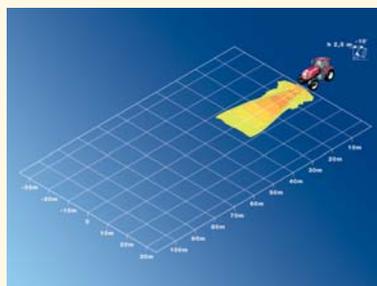


Close-range illumination 15°

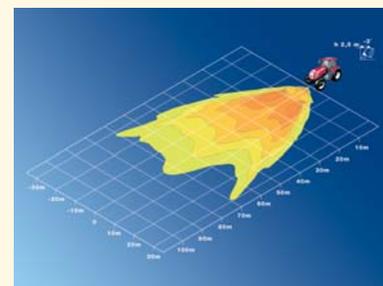
Modul 6213 Double Beam H3:



Ground illumination 5°



Long-range illumination 10°



Off-road illumination 3°



Oval 100 H3 for surface-mounting



Oval 100 H3 for flush-mounting

## Oval 100 H3 and H9

### The most important features:

- Modular series in versions for 1 x H3, 2 x H3 and 1 x H9 bulbs
- Surface-mounted versions for upright mounting, H3 versions also suitable for pendant mounting\*
- The front view matches the spotlights and low-beam headlights Oval 100 H7\*

► For further information about xenon technology see page 6

\* See main Hella catalogue for further versions including for flush-mounting

	Shock absorber in the base	Ground illumination	Off-road illumination	Long-range illumination	Single reflector	Twin reflector	AMP plug connection	H9 plug connection	Bulb	2 m cable with plug	Protective category IP 5K4K
Oval 100 (H3) for surface-mounting											
<b>1GA 996 161-121</b>		■			■		■		■ 12 V/55 W	X	■
<b>1GA 996 161-131</b>				■		■	■		■ 12 V/55 W	X	■
<b>1GA 996 161-281</b>				■	■		■		■ 12 V/55 W	X	■
<b>1GA 996 161-291</b>		■				■	■		■ 12 V/55 W	X	■
<b>1GA 996 161-581</b>	■	■			■		■		■ 24 V/70 W	X	■
Oval 100 (H3) for flush-mounting**											
<b>1GA 996 161-671</b>				■	■		■		■ 12 V/55 W	X	■
Oval 100 H9											
<b>1GA 996 161-391</b>	■		■		■			■	■ 12 V/65 W	■	■

■ Standard features  
X Accessories

### Accessories

Part no.	Description
8KB 990 299-001	2 m cable with AMP plug
9XD 990 298-001	Attachment bracket for four-point attachment

### Spare parts

Part no.	Description
8GH 002 090-271	Halogen bulb H3 12 V 35 W
8GH 002 090-133	Halogen bulb H3 12 V 55 W
8GH 002 090-251	Halogen bulb H3 24 V 70 W
8GH 008 357-001	Halogen bulb H9 12 V 65 W

\*\* Installation dimensions correspond to those of the worklights Modul 6213/Modul 6213 Double Beam H3.

► See page 47

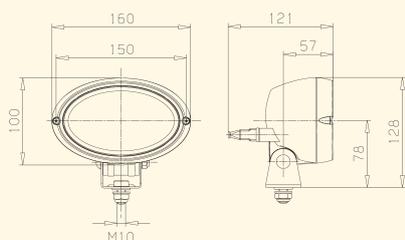


Oval 100 H3 Double

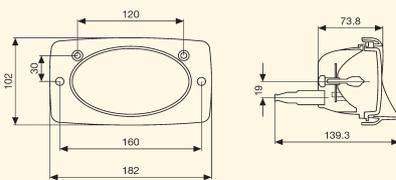


Oval 100 H9

### H3

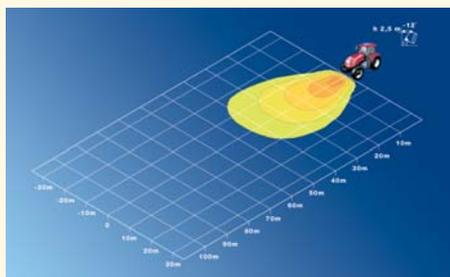
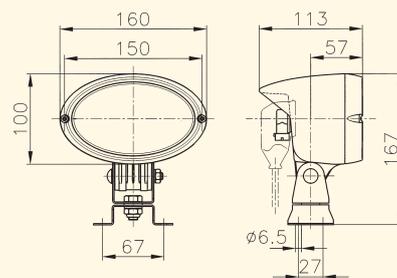


Surface-mounting

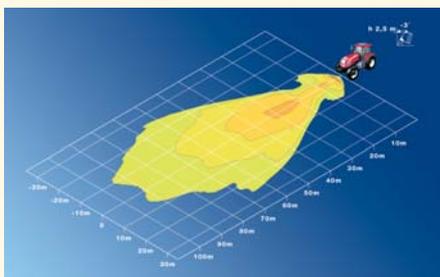


Flush-mounting

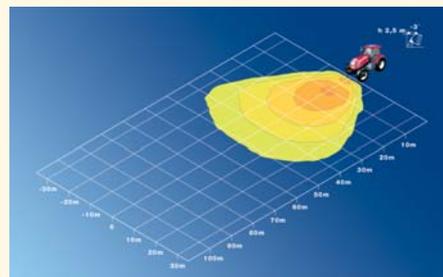
### H9



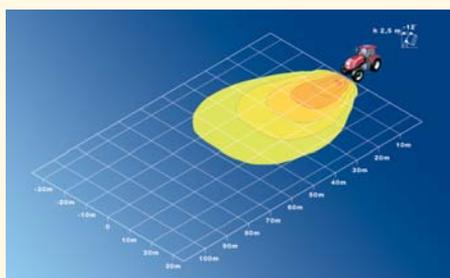
1 x H3, Ground illumination 12°



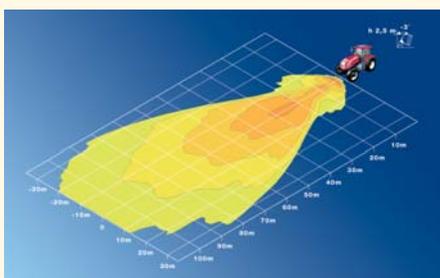
1 x H3, Long-range illumination 3°



1 x H9, Off-road illumination 3°



2 x H3, Ground illumination 12°



2 x H3, Long-range illumination 3°



Ultra Beam H3



Ultra Beam H3 with pipe socket mounting

## Ultra Beam H3 and H9

Versions with and without handle and for pipe socket mounting (e.g. can be used alternately with beacons)

### The most important features of the Ultra Beam H3

- Also available as heavy-duty versions with swivelling base with shock absorber and brackets for four-point attachment
- Versions with approval according to GGVS and ADR
- Surface-mounted versions suitable for upright or pendant mounting\*

### The most important features of the Ultra Beam H9

- With swivelling base with shock absorber and bracket for four-point attachment
- Surface-mounted versions for upright mounting\*

\* See main Hella catalogue for further versions including for flush-mounting



GGVS only with H3 version (without pipe socket mounting)

	Long-range illumination	Ground illumination	Off-road illumination	Handle	Shock absorber in the base	Attachment bracket for 4-point mounting	Pipe socket mounting	AMP plug connection with protective cap	H9 plug connection with protective cap	Bulbs H3	Bulb H9 65 W	Upright surface-mounting	Protective category IP 5K4K	Protective category IP 6K4K	Protective category IP X9K (resistant to high-pressure cleaners)	Approved according to GGVS/ADR
Ultra Beam H3 with swivelling base																
<b>1GA 997 506-021</b>	■					X		■		X				■	■	■
<b>1GA 007 506-001</b>		■				X		■		X				■	■	■
<b>1GA 007 506-011</b>		■			■	■		■		X				■	■	■
<b>1GA 007 506-021</b>		■		■	■	■		■		X				■	■	■
Ultra Beam H3 with pipe socket mounting																
<b>1GA 007 506-681</b>		■		■			■			■ 24 V			■			
Ultra Beam H9																
<b>1GA 996 150-021</b>			■		■	■			■		■	■	■			
<b>1GA 996 150-071</b>			■	■	■	■			■		■	■	■			
<b>1GA 996 150-081</b>			■		■	■		■			■	■	■		■	
Ultra Beam H9 with pipe socket mounting																
<b>1GA 996 150-151</b>			■	■			■				■	■	■			

■ Standard features  
X Accessories

### Accessories

Part no.	Description
8GH 002 090-271	Halogen bulb H3 12 V 35 W
8GH 002 090-133	Halogen bulb H3 12 V 55 W
8GH 002 090-251	Halogen bulb H3 24 V 70 W
8KB 990 299-001	2 m cable with AMP plug

### Spare parts

Part no.	Description
8GH 008 357-001	Halogen bulb H9 12 V 65 W

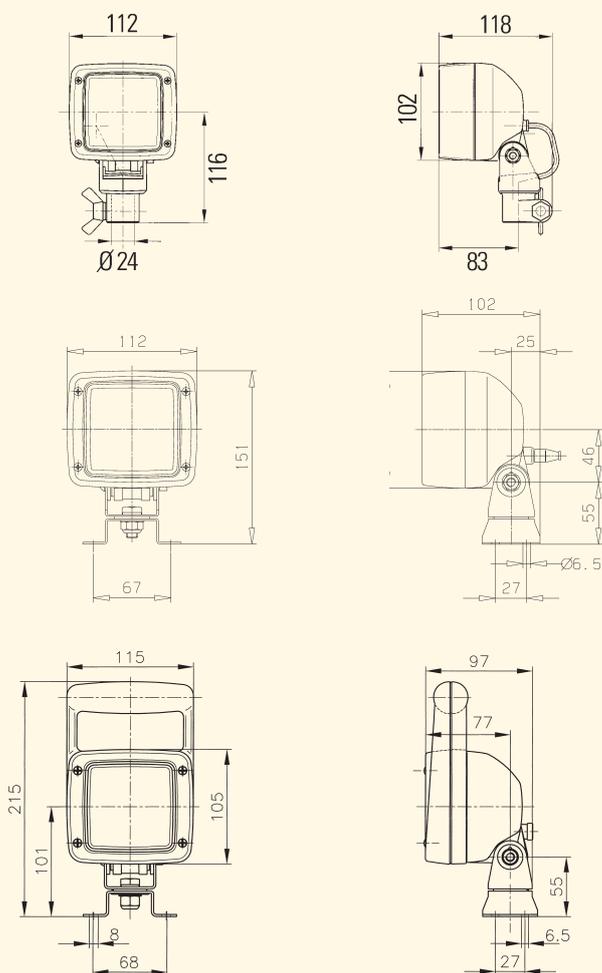


Ultra Beam H9

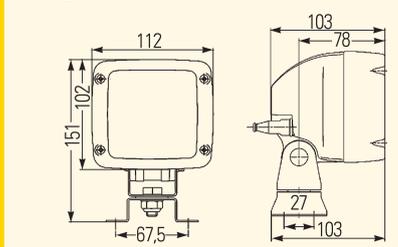


Ultra Beam H9 with handle

### H3

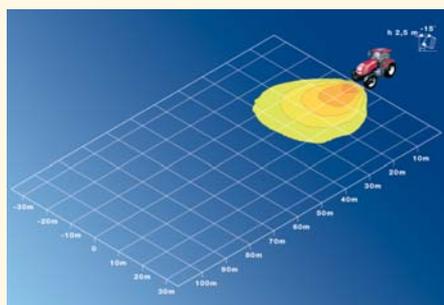
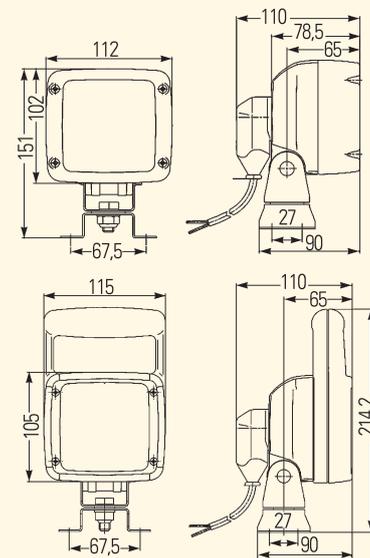


### H9

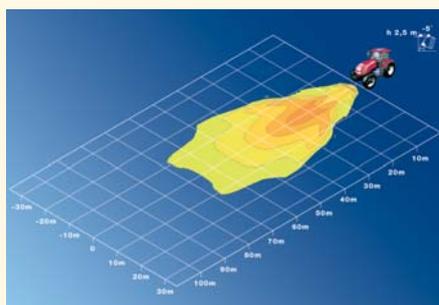


AMP plug connection

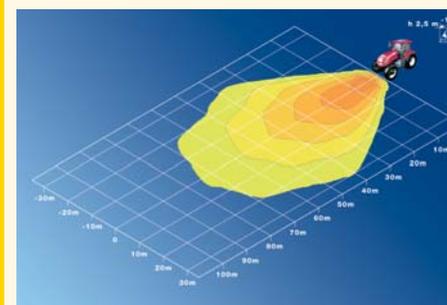
H9 plug connection (bulb accessible)



Ground illumination 15° H3



Long-range illumination 5° H3



Off-road illumination 2° H9



Mega Beam H3



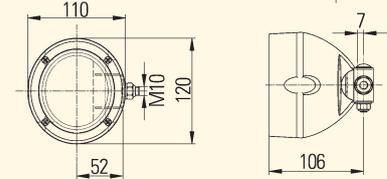
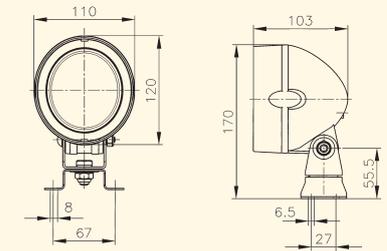
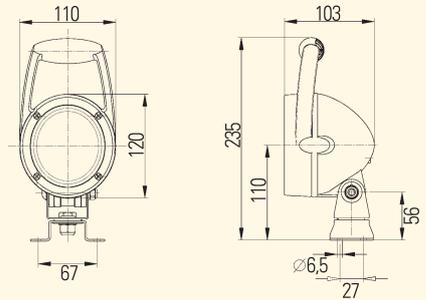
Mega Beam H3 with handle

# Mega Beam H3

## The most important features:

- Versions with approval according to GGVS and ADR
- Versions with and without handle suitable for upright, pendant and lateral mounting\*
- With swivelling base with shock absorber and bracket for four-point attachment

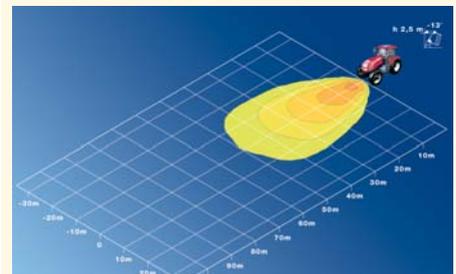
\* See main Hella catalogue for further versions including for flush-mounting



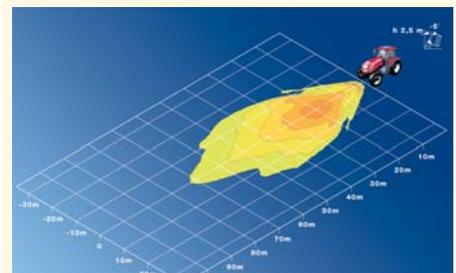
	Ground illumination	Long-range illumination	Handle	Shock absorber in the base	Attachment bracket for 4-point mounting	Cable entry with grommet	AMP plug connection with protective cap	Protective category IP 5K4K	Protective category IP X9K (resistant to high-pressure cleaners)	Approved according to GGVS/ADR
--	---------------------	-------------------------	--------	----------------------------	---	--------------------------	---	-----------------------------	--	--------------------------------

Surface-mounted version										
1GM 996 134-071		■		■	■		■	■	■	■
1GM 996 134-171	■			■	■		■	■	■	■
1GM 996 134-241	■		■	■	■	■		■		
Surface-mounted version (on the left-hand side)										
1GM 996 134-271	■					■		■		
Surface-mounted version (on the right-hand side)										
1GM 996 134-371	■					■		■		

■ Standard features



Ground illumination 13°



Long-range illumination 5°



Rubber grommet



AMP connection

## Accessories

Part no.	Description
8GH 002 090-271	Halogen bulb H3 12 V 35 W
8GH 002 090-133	Halogen bulb H3 12 V 55 W
8GH 002 090-251	Halogen bulb H3 24 V 70 W



Double Beam H3



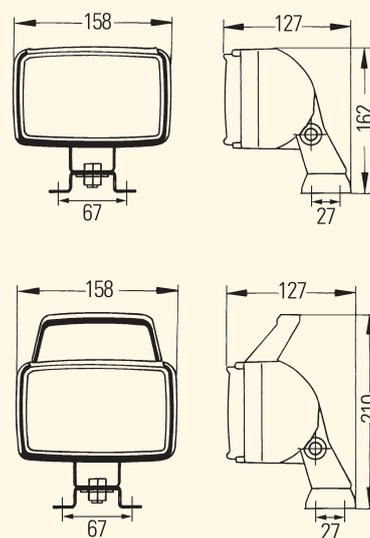
Double Beam H3 with handle

## Double Beam H3

### The most important features:

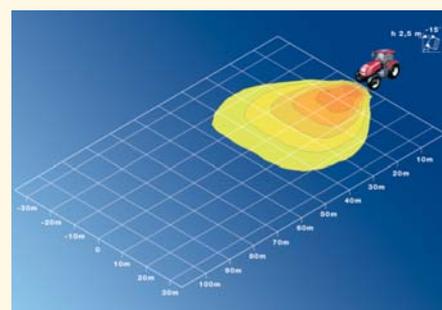
- Three times the light output of conventional worklights of the same design size
- With twin reflector for extremely large-area and homogeneous illumination
- Versions with or without handle
- Versions with approval according to GGVS and ADR
- Suitable for upright and pending surface-mounting

► For flush-mounted versions see Modul 6213 Double Beam on page 47

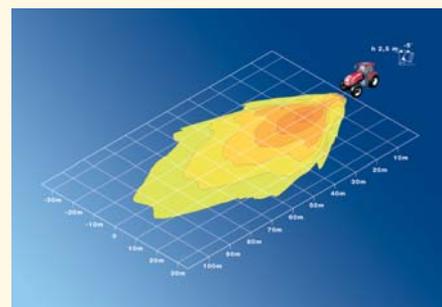


	Ground illumination	Off-road illumination	Handle	Attachment bracket for 4-point mounting	Cable entry with grommet	Connecting cable 250 mm	Protective category IP 5K4K
Surface-mounted version							
<b>1GA 006 991-031</b>	■		■	■	■		■
<b>1GA 006 991-041</b>	■			■	■		■
<b>1GA 006 991-051</b>		■		■	■		■
<b>1GA 006 991-061</b>		■	■	■	■		■

■ Standard features



Ground illumination 15°



Off-road illumination 5°

### Accessories

Part no.	Description
8GH 002 090-271	Halogen bulb H3 12 V 35 W
8GH 002 090-133	Halogen bulb H3 12 V 55 W
8GH 002 090-251	Halogen bulb H3 24 V 70 W



Modul 70 H3



Modul 70 H9

## Modul 70

- Compact worklight for use in cramped conditions
- Surface-mounted versions for upright or pendant mounting\*

### The most important features of Modul 70 H3:

- Easily accessible H3 bulb – no tools required for bulb replacement
- Cable feed through an opening in the rubber cap

### The most important features of Modul 70 H9:

- H9 bulb is accessible from the outside – direct electrical connection and easy replacement possible

\* See main Hella catalogue for further versions, including for flush-mounting

	Close-range illumination	Upright surface-mounting	Pendant surface-mounting	FF reflector	Cable feed through rubber cap	H9 plug connection	Cable with H9 plug 2000 mm	Protective category IP5K4K	Protective category IPX9K	Halogen bulb H3 12 V 35 W	Halogen bulb H3 12 V 55 W	Halogen bulb H3 24 V 70 W	Halogen bulb H9 12 V 65 W
Modul 70 H3													
<b>1G0 996 176-001</b>	■	■		■	■			■	■	X	X	X	
<b>1G0 996 176-111</b>	■		■	■	■			■	■	X	X	X	
Modul 70 H9													
<b>1G0 996 176-171</b>	■	■		■		■	■	■	■				■
<b>1G0 996 176-181</b>	■		■	■		■	■	■	■				■

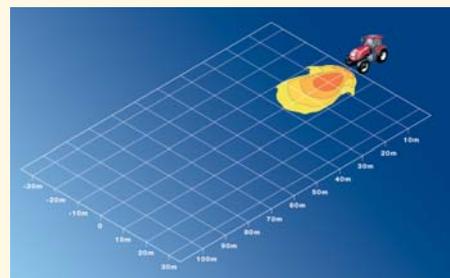
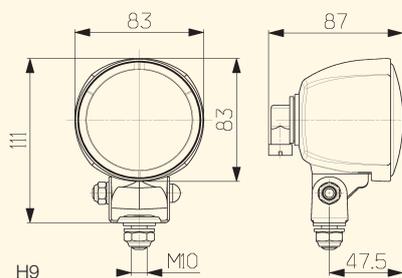
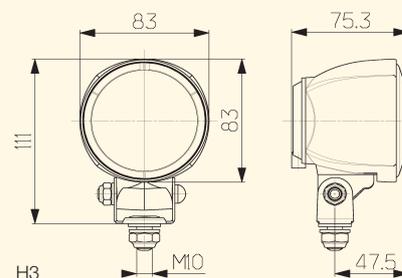
■ Standard features  
X Accessories

### Accessories

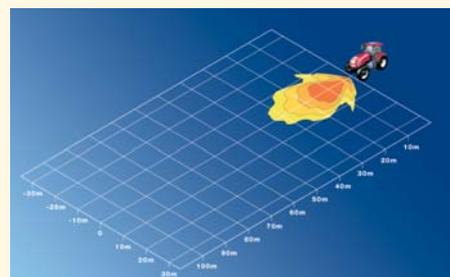
Part no.	Description
8GH 002 090-271	Halogen bulb H3 12 V 35 W
8GH 002 090-133	Halogen bulb H3 12 V 55 W
8GH 002 090-251	Halogen bulb H3 24 V 70 W

### Spare parts

Part no.	Description
8GH 008 357-001	Halogen bulb H9 12 V 65 W
9HD 990 101-001	Dust cap for Modul 70 H3



H3 close-range illumination 10°



H9 close-range illumination 10°

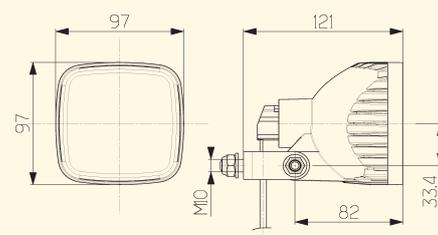


Eco 21

## Eco 21

### The most important features:

- Low-cost worklight for close-range applications
- Incl. 21 W bulb 12 V or 24 V
- Bulb socket accessible from the outside, including connection cable 500 mm long
- FF reflector in the housing welded with pattern-free lens
- Projecting housing edge – to protect the lens
- Surface-mounted version for upright mounting



	Close-range illumination	Upright surface-mounting	Connection cable 500 mm	Bulb 12 V P21 W	Bulb 24 V P21 W	Protective category IP 5K9K
<b>1GA 996 179-021</b>	■	■	■	■		■
<b>1GA 996 179-001</b>		■	■		■	■

■ Standard features

### Spare parts

Part no.	Description
8GA 002 073-121	Halogen bulb 12 V P21 W
8GA 002 073-271	Halogen bulb 12 V P21 W Long Life
8GA 002 073-241	Halogen bulb 24 V P21 W
8GA 002 073-251	Halogen bulb 24 V P21 W Heavy Duty



## Accessories

*For worklights / searchlights and beacons*



**Bracket mounting base  $\varnothing$  24 mm with integrated power feed, DIN ISO 4165**

For housings with AMP plug connection or with grommet

**8HG 990 320-001**

For combination with socket pipes

9XD 990 284-001	8HG 006 294-...
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Suitable for surface-mounted worklights

Ultra-Beam	see page 50–51
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Mega Beam	see page 52
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AS 200 Xenon	see page 44
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Oval 100	see page 48–49
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**Socket pipe with power feed for screw attachment**

to flat cabin roof areas (top)

**8HG 006 294-011**



**Socket pipe with power feed for screw attachment**

to vertical cabin roof areas (side)

**8HG 006 294-021**



**Socket pipe with power feed and connection cable 900 mm for screw attachment**

to vertical vehicle areas (side)

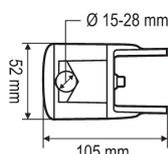
**9XD 990 284-001**



**Universal pipe fitting**

for mounting the worklights on  $\varnothing$  24 mm socket pipe, using M12 fastening screws. Can be turned through 360°.

**9XD 990 097-007**

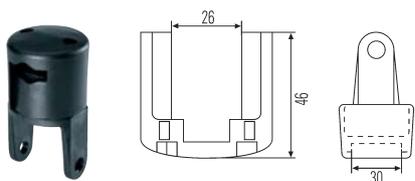


**Rotatable socket pipe bracket**

for mounting the worklights on mirror brackets  $\varnothing$  15 mm– $\varnothing$  28 mm, better hold thanks to rubber inserts.

**8HG 990 263-111**

AS 200 Xenon	see page 44
Ultra-Beam	see page 50
Mega Beam	see page 52
Oval 100	see page 48–49
Oval 100 Xenon	see page 41
Modul 70	see page 54



**Socket pipe bracket**

for mounting the worklights on mirror brackets  $\varnothing$  14 mm– $\varnothing$  25 mm, better hold thanks to rubber inserts.

Modul 70	see page 54
Mega Beam	(only for mounting on the side) see page 52

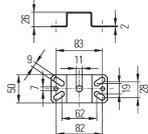
**8HG 990 263-001**



**Magnetic base**

for worklights with U-hoop.  
Comprising: 2 magnets and fastening material, magnetic base; for attachment bracket 9XD 130 261-001

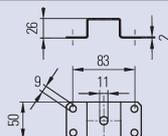
**8HG 004 806-001**



**Attachment bracket for four-point attachment**

For worklights and surface-mounted headlights with M10 fastening screw, attachment bracket made of stainless steel

**9XD 130 261-001**



**Attachment bracket**

made of yellow-chromatized steel

**9XD 990 298-001**



**Connecting cable**

**8KB 990 299-001** 2 m cable with AMP plug



**Bulbs**

**8GH 002 090-271** Halogen bulb H3 12 V 35 W ❶

**8GH 002 090-133** Halogen bulb H3 12 V/55 W ❶

**8GH 002 090-251** Halogen bulb H3 24 V/70 W ❶

**8GH 008 357-001** Halogen bulb H9 12 V/65 W ❷

**8GS 009 028-001** Xenon bulb D1S ❸

**8GS 007 949-101** Xenon bulb D2S ❹



## Reversing spotlights for the rear and side



### How you can create optimum visibility conditions.

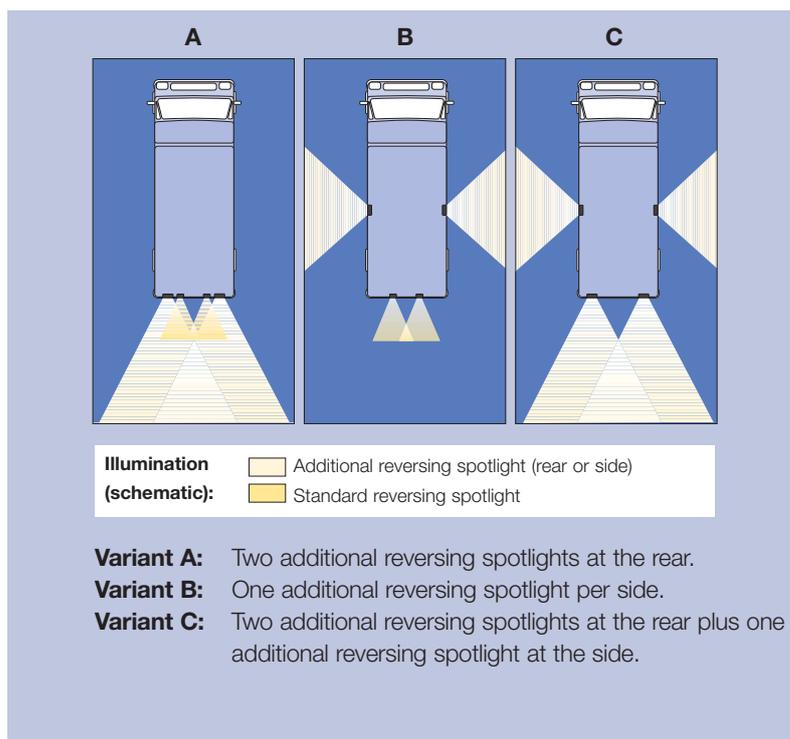
From July 2006, legislation permits a total of four reversing spotlights.

- Two additional reversing spotlights at the rear for commercial vehicles, buses and trailers more than 6 m long.
- In addition, one reversing spotlight on each side for commercial vehicles, buses and trailers more than 6 m long.

A maximum of 4 functional reversing spotlights may be attached per commercial vehicle or trailer.

In July 2006, a new law came into force regulating the lighting equipment of newly registered commercial vehicles and trailers (legal regulations are also applicable for conversion or retrofitting):

- **Type-approved** reversing spotlights are permitted to be mounted on the rear.
- Now, legislation permits one additional reversing spotlight to be **mounted** on each **side** of the vehicle.
- The mounting of fog lights on the rear – previously tolerated – is now prohibited.
- The use of worklights as reversing lights remains prohibited.





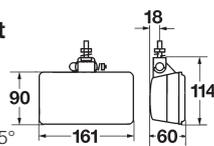
It's just as true for reversing spotlights that: Where Hella is on the outside, Hella is on the inside too!



**Comet 450 reversing spotlight**

Part no. 2ZR 005 860-151

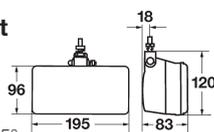
Mounting regulation: Angle of inclination 15°



**Comet 550 reversing spotlight**

Part no. 2ZR 005 700-191

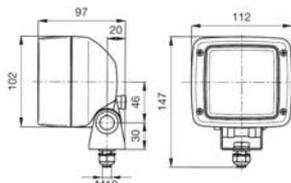
Mounting regulation: Angle of inclination 15°



**Ultra Beam reversing spotlight**

Part no. 2ZR 997 506-391

Mounting regulation: Angle of inclination 12°



Type approval mark:

00 AR stands for reversing spotlight

Type approval number

ECE marking

with country code (1 = Germany)

**The same at first glance – but different in terms of technology.**

From the outside, Hella's reversing spotlights look like conventional fog lights or worklights. But there is a fine distinction in detail. Hella reversing spotlights have a different light distribution and special type approval. Only reversing spotlights with the respective type approval mark are permitted to be mounted additionally to commercial vehicles, buses and trailers.



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**Ideas today for  
the cars of tomorrow**