



OVAL 100FF Xenon

GDL Worklamp

Mounting instruction

Please retain for future reference



Hella Part No.

- HMPVX35WBA
- HMPVX35NBA
- HMPVX35WBD
- HMPVX35NBD

AMP PLUG Pin Configuration



Torque settings for bolt
20Nm

Ballast Spare Part:

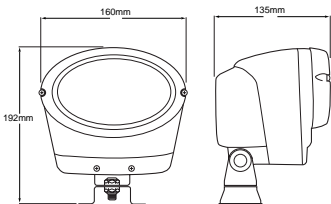
9.HMPUXB24

Globe Spare Part:

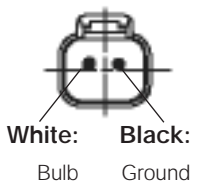
HMXN4001

Optic Spare Part:

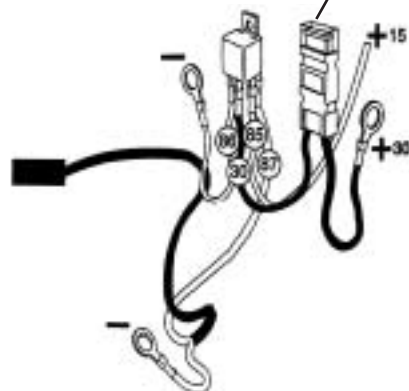
- Insert - Wide Optic 9.HMPUXWB
- Insert - Narrow Optic 9.HMPUXNB



DEUTSCH PLUG Pin Configuration



10A Fuse



DRAIN
HOLE

TOP



OVAL 100FF Xenon

GDL Worklamp

Mounting instruction

Please retain for future reference

Technical data

Ballast to combine with Xenon HID bulb D1S / 35W

Specifications	24 VDC
Nominal voltage	26.4 V
Lower switch-on	18 V
Operating voltage range	18 V to 32 V
Below this voltage the operating time is limited	<12V for 10min.at T _G < 85°C
Power consumption	c. 41W
Peak current	10 A
Activation current	< 8.5 A for max. 10 s
Nominal current	1.59 A
Preconnected fuse	7.5 A
Power output	35W +/- 1W at T _G 25°C
No-load ignition voltage	c. 20kV (max.23kV)
Lamp voltage range	67V to 112V
Housing temperature range	-40°C to + 105°C (enclosure 2)
Mass	1.5kg
Exceeds Hella requirements	Class 4
Lamp type	D1S
Protection code (with suitable plug)	IP6K7

		Ballast input voltage (Xenon)
		24 VDC
maximum Impedance		300 milli-Ohms
Lead Cross section	US Cable size Gauge no. (Copper)	Total lead length (power and ground lead) for supply of 1 ballast
1.0 mm ²	16 Ga.	7.2 m
1.5 mm ²		10.9 m
2.0 mm ²	14 Ga.	14.5 m
2.5 mm ²	12 Ga.	18.1 m
4.0 mm ²		29.0 m
5.0 mm ²	10 Ga.	36.3 m
6.0 mm ²		43.6 m
8.0 mm ²	8 Ga.	58.1 m

Exchange of the D1S bulb

- Always switch off the worklamp ballast before exchanging the D1S bulb and disconnect from the power supply.
- Allow the xenon-bulb to cool off.
- The glass body of the xenon-bulb is filled with various gasses and metal gasses under pressure (danger of splintering).
- Wear safety goggles and gloves when exchanging xenon-bulb.
- Dispose of used xenon bulbs as hazardous waste.
- Always use the ballast in combination with the D1S bulb which is placed inside the closed work lamp.
- Never touch the glass of the xenon-bulb, touch the xenon-bulb at its base only. Use a clean cloth and alcohol to remove any fingerprints from the glass bulb carefully.
- Connect the D1S bulb securely in the connector. Incomplete connection of the D1S bulb can result in damage to the product or other equipment, or electric shock.
- The ballast operation is stopped within 1 second if the D1S bulb is not connected properly

Mounting instructions:

- The worklamp is suitable for upright or pendant mounting. In case of pendant mounting please open the lamp and assemble the reflector unit turned 180° (see Exchange of the D1S bulb).
- Take care of the correct lens position (**"TOP" upwards, "HELLA" visible, drain hole downwards**).
- **When operating the lamp, please observe the following:**
- Do not operate in small, closed spaces.
- Distance between lens and combustible materials at least 0.5 metre.
- Do not look directly into the bright light.

Warning! When the lamp is switched on and the lens is hot, do not clean with liquid.
Danger of Breakage.

Connection of ballast to power supply:

- The ballast generates high voltage. Do not touch the connection lead to the xenon bulb or other parts of the ballast when turning the power on.
- The ballast is fully potted and therefore has very good humidity resistance characteristics. However, do not expose the ballast to water, humidity or condensation.
- Always use the ballast in combination with the D2S xenon-bulb.
- Adhere to the maximum temperature requirements of the ballast.
- All power supply and charging systems must adhere to the voltage limits specified.
- A battery or accumulator must be connected in series with the ballast input or +24V.
- Use the wiring harness supplied for electrical connection.
- A 10 amp fuse (slow blow type) at 24V must be added in series with the ballast input, or Hella circuit breaker.
- To assure proper starting characteristics, the complete lead (power and ground lead) between the battery or accumulator and the ballast shall not have an impedance more than 300 milli-ohms at 24V (including battery, terminals, fuse and holder contacts, relay and any connector resistances). Make sure not to extend the supplied wiring harness more than the specified maximum length. (see technical data).
- Do not start more than 3 ballasts at once. After 20 seconds additional 3 ballasts can be started, Hella also supplies waterproof relays.
- The ballast is equipped with a "Reverse polarity protection", but will operate at correct connection only.
- As this product converts frequency, it can be a source of electric noise.

- Hella shall be absolved from all responsibility for any modifications performed on the luminaire
- Use only certified original equipment for replacement purposes

