

# LED-Lighting for welding helmet



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INTELLIGENT TECHNOLOGY

# Helios

*Makes the welding area visible*



## HELIOS 9-13

- Illumination of dark work areas
- Integrated, long-life LED light technology
- Intelligent, patented deactivation of LEDs during welding
- Proven OPTREL 9-13 ADF technology

**optrel**   
[www.optrel.com](http://www.optrel.com)

# Makes the welding area *visible*

Automatic shade protection range, infinitely variable from DIN 9 to 13.



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## HELIOS 9-13

### 1 Solar cells

No on/off button.

### 2 Auto darkening filter

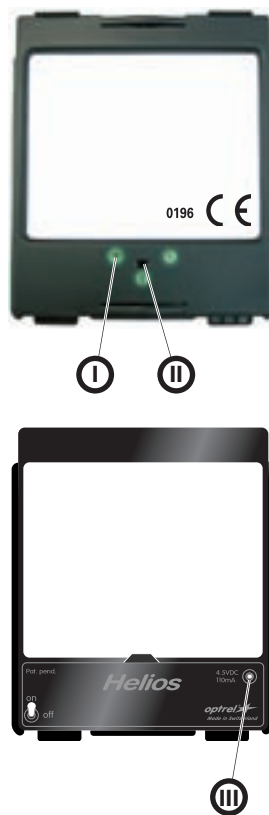
Automatically darkens to the preset shade level in a fraction of a millisecond as soon as the arc ignites.

### 3 Potentiometer knob

Infinitely variable adjustment from shade level 9 to 13, depending on the welding application and personal preferences.

### 4 Sensor bar

Minimizes the influences of surrounding bright light when welding adjacent to other welders or on highly reflective materials. May be removed for more sensitivity in low amperage applications.



## HELIOS Adapter

### I Lighting

Three (3) LEDs brighten up the work area for a better view even under difficult lighting conditions. The green color LEDs are optimized for use with the auto-darkening filter in terms of brightness, longevity and low energy consumption.

### II Sensor (patent pending)

The proven OPTREL sensor technology has also been intrated into the HELIOS adapter to allow for automatic temporary deactivation during the welding process and optimization of of energy consumption.

### III Power supply

Rechargeable batteries allow for up to two days of operation under normal working conditions and can be re-charged overnight in less than ten hours.

## Technical data

## optrel® Helios

Type	Automatically variable DIN 4/9 up to 13, Infinitely manual variable between 9 and 13, Integrated illumination of work area with 3 LEDs
Light transmitting capacity	Not activated: protection level DIN 4 Activated: protection level DIN 9 to 13
Switching time light to dark	0,4 ms at room temperature 0,1 ms at 55°C
Switching time dark to light	Position «slow» 0,3 – 0,6 s Position «fast» 0,1 – 0,35 s
UV/IR protection	Maximum UV/IR protection in light or dark state
Power supply	
ADF cartridge:	Solar cells
Illumination adapter:	Rechargeable batteries, 4.5V battery charger included
Operating temperature	-10°C bis +70°C
Total weight	600 g
Size of cartridge	90 x 110 x 7 mm
Warranty	2 year warranty on ADF cartridge 1 year warranty on Helios adapter and charger
Special characteristics	Mechanically durable visor attachment

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