

# ZM18-lhi90a

## DATASHEET

**Sensor Partners BV**

📍 James Wattlaan 15  
5151 DP Drunen  
The Netherlands

☎ +31 (0)416 - 37 82 39

✉ info@sensorpartners.com

🌐 sensorpartners.com

**Sensor Partners BVBA**

📍 Z.1 Researchpark 310  
B-1731, Zellik  
Belgium

☎ +32 (0)2 - 464 96 90

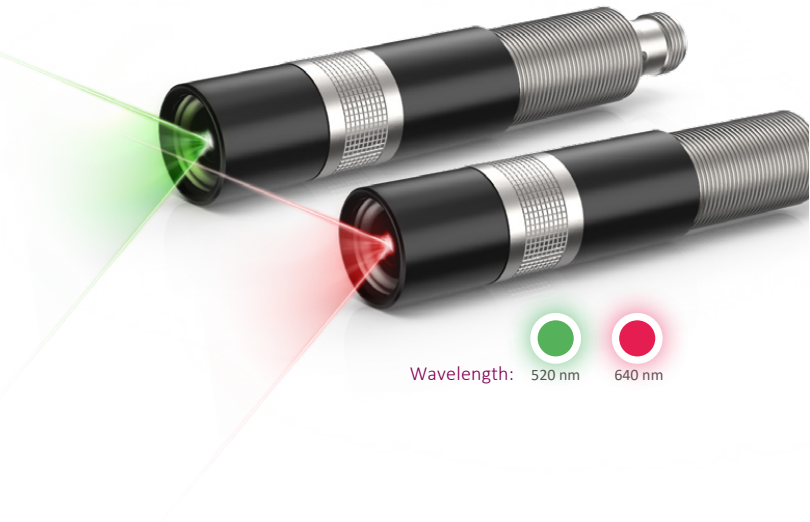
✉ info@sensorpartners.com

🌐 sensorpartners.com

# ZM18-lhi90a

## Small size, long line

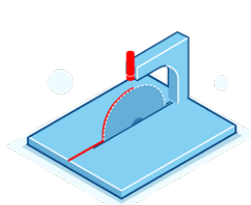
“lhi90a” stands for “Line High Intensity” with a 90 ° opening angle with asymmetrical emission. This laser is the right choice if you want to project long and, above all, homogeneously illuminated lines - even at low installation heights. Four models of the ZM18-lhi90a are available as standard: two red and two green line lasers, with free or fixed focus. The performance is optimized so that the devices has the maximum output power for the laser class 2M.



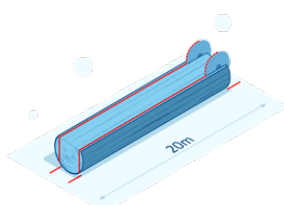
-   
 Easy installation
-   
 Output power up to 35 mW
-   
 Shock resistant
-   
 IP 67
-   
 Different wavelength available

## Highlights

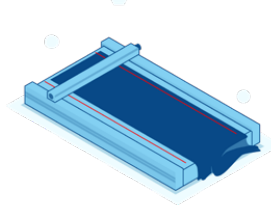
- Homogenous line intensity
- Laser class 2M
- Protection IP67
- Manual focus
- Industrial standard



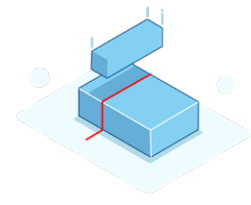
Projection along the cutting edge



Long homogenous line projection



Textile positioning table



High-Precision Positioning Tasks

### Order Code

|              |   |                |   |            |   |             |            |        |
|--------------|---|----------------|---|------------|---|-------------|------------|--------|
| Z??          | - | M18            | - | ?          | - | ?           | ?          | lhi90a |
| Output power |   | Product family |   | Electronic |   | F-focusable | Wavelength | Optic  |

### System specifications

|                      |              |
|----------------------|--------------|
| Wavelength           | nm           |
| Wavelength tolerance | nm (typisch) |
| Output power         | mW           |
| Laser operation mode |              |

|                      | 520 | 640  |
|----------------------|-----|------|
|                      | ± 4 | ± 10 |
|                      | 30  | 35   |
| Laser operation mode | APC |      |

### Electrical specifications

|                   |  |
|-------------------|--|
| Operating voltage |  |
| Protection        |  |
| Connection        |  |

|                   |                |
|-------------------|----------------|
| Operating voltage | 5-30 VDC       |
| Protection        | IP67           |
| Connection        | 4-pin M12 plug |

### Optical specifications

|             |         |
|-------------|---------|
| Fan angles  | Degrees |
| Laser class |         |

|             |                         |
|-------------|-------------------------|
| Fan angles  | 90° (homogeneous lines) |
| Laser class | 2M                      |

### Environmental conditions

|                       |         |
|-----------------------|---------|
| Operating temperature | °C / °F |
| Storage temperature   | °C / °F |

|                       |  |
|-----------------------|--|
| Operating temperature | -10 °C bis +50 °C / 14 °F bis +122 °F  |
| Storage temperature   | -40 °C bis +80 °C / -40 °F bis +175 °F |

### Mechanical specifications

|          |    |
|----------|----|
| Weight   | g  |
| Length   | mm |
| Material |    |

| Z35M18B-640-lhi90a                   | Z30M18B3-520-lhi90a | Z35M18B-F-640-lhi90a | Z30M18B3-F-520-lhi90a |
|--------------------------------------|---------------------|----------------------|-----------------------|
| 60                                   | 60                  | 75                   | 75                    |
| 93                                   | 93                  | 108                  | 108                   |
| M18 industrial housing, brass chrome |                     |                      |                       |

