

A VISION  
AHEAD



HOW TO READ THE PRODUCT KEY

Manufacturer	Source colour	Light Output Area/ Length	Injection process	Input voltage
PHLOX	LEDR	BL	20x20	LLUB
			Q	1R
				24V
	Source type	Product type	Range	Number of light sources' rows per circuit

PHLOX® EXCLUSIVE LIGHT PROCESS  
WORLDWIDE PATENT ISSUED

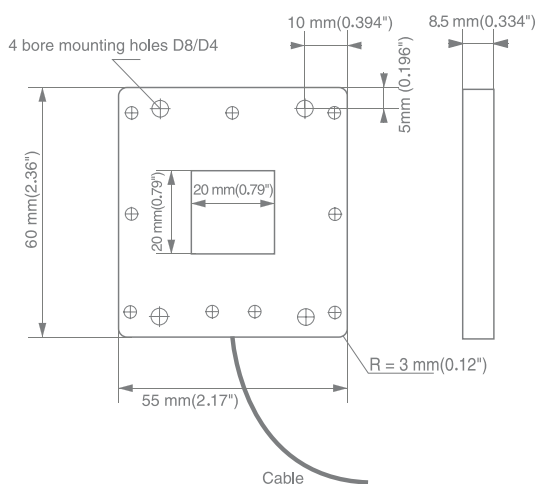
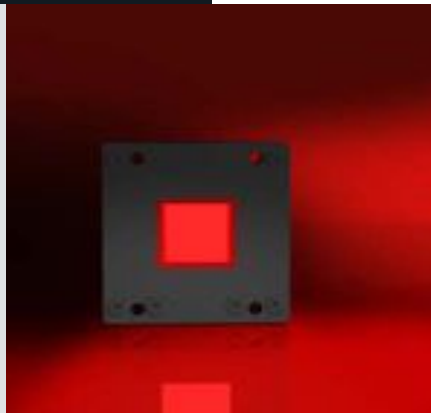
**NEW!**

# LLUB (Long Life Ultra Bright) Red led Backlight 20x20

LESS THAN 20% LUMINANCE LOSS AFTER 100 000 HOURS (\*)

(\*) room temperature = 20 °C

**PHLOX - LEDR - BL - 20x20 - LLUB - Q - 1R - 24V**



## Illumination

Luminance minimum	<b>11 000 cd/m<sup>2</sup> continuous mode</b>
Uniformity minimum	<b>95% (+/- 10%)</b>
Source Type	Red LED
Wavelength	625 nm (+/- 15)
Light Angular Distribution	30° 1/2 angle
Expected Life	<b>&gt; 100 000 hours</b>

## Electrical

Input Voltage	24 VDC (continuous mode)
Input Current	120 mA (continuous mode)
Cable length	2 M – Ø 2.6 mm (6.56 ft – Ø 0.10")
Connector	None
Cable pinout	
CE Conformity	Yes
Strobe mode	Max. Cur: 600 mA / Pulse Width: 10ms / Duty Ratio: 1/10

## Outer unit

L x W x H	60 x 55 x 8.5 mm (2.36 x 2.17 x 0.334")
Housing Material	Black Anodized Aluminium
Weight	80 g (2.82 oz)
Mounting	4 bore holes (D8 for the first 3.5 mm of height, D4 for the other 5.5 mm)

## Environmental

Max. Operating Humidity	95% non-condensing
Operating Temperature	50°C (122°F) max
Storage Temperature	60°C (140°F) max
Shelf life	12 months from date of purchase
Max.Temp.on housing	+80°C (+176°F) on the back of the backlight, along the edges (see image)

area of temperature measurement  
30 mm all along the edges of the back of  
the black anodized aluminium backlight



Do not cover the backlight when it's switched on.

## Accessories

**Power supply:** 110V and 220V  
Product key: OMRON-LED-PS-108x100x40-24V

### « Strobe » Control Module

GARDASOFT RT Series Led Lighting Controllers  
You can find the nearest Distributor on  
<http://www.gardasoft.com/distributors.php?id=2>

CLASS 0: NO RISK (CIE S2009:2002/NF EN 62471)

**RoHS** directive compliant

Each PHLOX Backlight is provided with:  
- 24 months warranty  
- Certificate of uniformity and luminance  
- Seal of quality on the back

February 17 2011

LLUB Backlights by PHLOX® offer the best life cycle, the best chromaticity stability and the best luminance on the market, all in an ultra compact and IP-65 body. PHLOX® is the only manufacturer to provide uniformity and luminance datas on the quality control seal positioned at the back of every backlight.

## DESIGNED FOR YOUR APPLICATION

- Bottle inspection (glass and plastic)
- Particle measurement
- Picture digitalization
- Dimensional control
- Shaping control
- Quality control with transparency.

## & YOUR INDUSTRIAL SECTOR

- Glassmaking
- Pharmaceutical/Cosmetics
- Automotive
- Agribusiness
- Electronics
- Aeronautics and space.



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A VISION  
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HOW TO READ THE PRODUCT KEY

Manufacturer	Source colour	Light Output Area/ Length	Injection process	Input voltage
PHLOX	- LEDR	- BL	- 50x50	- LLUB - Q
				- 1R
				- 24V
	Source type	Product type	Range	Number of light sources' rows per circuit

PHLOX® EXCLUSIVE LIGHT PROCESS  
WORLDWIDE PATENT ISSUED

**NEW!**

# LLUB (Long Life Ultra Bright) Red led Backlight 50x50

LESS THAN 20% LUMINANCE LOSS AFTER 100 000 HOURS (\*)

(\*) room temperature = 20 °C

**PHLOX - LEDR - BL - 50x50 - LLUB - Q - 1R - 24V**

## Illumination

Luminance minimum	<b>5 000 cd/m<sup>2</sup> continuous mode</b>
Uniformity minimum	<b>95% (+/- 10%)</b>
Source Type	Red LED
Wavelength	625 nm (+/- 15)
Light Angular Distribution	30° 1/2 angle
Expected Life	<b>&gt; 100 000 hours</b>

## Electrical

Input Voltage	24 VDC (continuous mode)
Input Current	200 mA (continuous mode)
Cable length	2 M – Ø 2.6 mm (6.56 ft – Ø 0.10")
Connector	None
Cable pinout	
CE Conformity	Yes
Strobe mode	Max. Cur: 1 A / Pulse Width: 10ms / Duty Ratio: 1/10

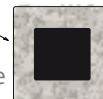
## Outer unit

L x W x H	90 x 85 x 8.5 mm (3.54 x 3.35 x 0.334")
Housing Material	Black Anodized Aluminium
Weight	120 g (4.2 oz)
Mounting	4 bore holes (D8 for the first 3.5 mm of height, D4 for the other 5.5 mm)

## Environmental

Max. Operating Humidity	95% non-condensing
Operating Temperature	50°C (122°F) max
Storage Temperature	60°C (140°F) max
Shelf life	12 months from date of purchase
Max.Temp.on housing	+80°C (+176°F) on the back of the backlight, along the edges (see image)

area of temperature measurement  
30 mm all along the edges of the back of  
the black anodized aluminium backlight



Do not cover the backlight when it's switched on.

## Accessories

**Power supply:** 110V and 220V  
Product key: OMRON-LED-PS-108x100x40-24V

### « Strobe » Control Module

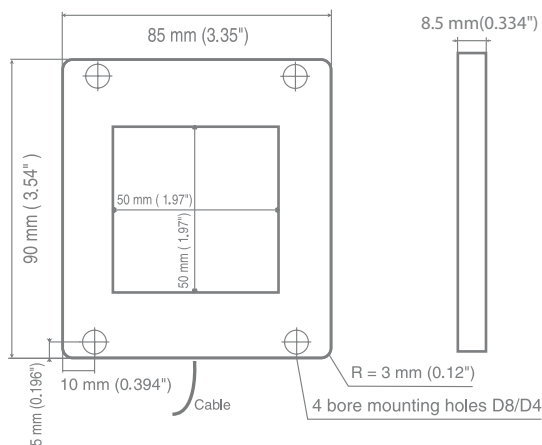
GARDASOFT RT Series Led Lighting Controllers  
You can find the nearest Distributor on  
<http://www.gardasoft.com/distributors.php?id=2>

CLASS 0: NO RISK (CIE S2009:2002/NF EN 62471)

**RoHS** directive compliant

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February 17 2011



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HOW TO READ THE PRODUCT KEY

Manufacturer	Source colour	Light Output Area/ Length	Injection process	Input voltage
PHLOX	- LEDR	- BL	- 100x100	- LLUB
			- Q	- 1R
				- 24V
	Source type	Product type	Range	Number of light sources' rows per circuit

PHLOX® EXCLUSIVE LIGHT PROCESS  
WORLDWIDE PATENT ISSUED

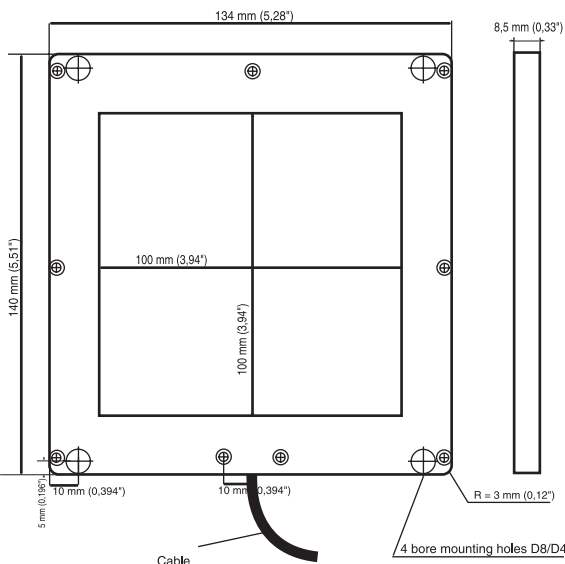
**NEW!**

# LLUB (Long Life Ultra Bright) Red led Backlight 100x100

LESS THAN 20% LUMINANCE LOSS AFTER 100 000 HOURS (\*)

(\*) room temperature = 20 °C

**PHLOX - LEDR - BL - 100x100 - LLUB - Q - 1R - 24V**



## Illumination

Luminance minimum	<b>7 000 cd/m<sup>2</sup> continuous mode</b>
Uniformity minimum	<b>95% (+/- 10%)</b>
Source Type	Red LED
Wavelength	625 nm (+/- 15)
Light Angular Distribution	30° 1/2 angle
Expected Life	<b>&gt; 100 000 hours</b>

## Electrical

Input Voltage	24 VDC (continuous mode)
Input Current	580 mA (continuous mode)
Cable length	2 M - Ø 2.6 mm (6.56 ft - Ø 0.10")
Connector	None
Cable pinout	±
CE Conformity	Yes
Strobe mode	Max. Cur: 2.9 A / Pulse Width: 10ms / Duty Ratio: 1/10

## Outer unit

L x W x H	140 x 134 x 8.5 mm (5.51 x 5.28 x 0.334")
Housing Material	Black Anodized Aluminium
Weight	400 g (14.1 oz)
Mounting	4 bore holes (D8 for the first 3.5 mm of height, D4 for the other 5.5 mm)

## Environmental

Max. Operating Humidity	95% non-condensing	30 mm all along the edges of the back of the black anodized aluminium backlight
Operating Temperature	50°C (122°F) max	
Storage Temperature	60°C (140°F) max	
Shelf life	12 months from date of purchase	
Max.Temp.on housing	+80°C (+176°F)	on the back of the backlight, along the edges (see image)

Do not cover the backlight when it's switched on.

## Accessories

**Power supply:** 110V and 220V  
Product key: OMRON-LED-PS-108x100x40-24V

### « Strobe » Control Module

GARDASOFT RT Series Led Lighting Controllers  
You can find the nearest Distributor on  
<http://www.gardasoft.com/distributors.php?id=2>

CLASS 0: NO RISK (CIE S2009:2002/NF EN 62471)

**RoHS** directive compliant

Each PHLOX Backlight is provided with:  
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- Certificate of uniformity and luminance  
- Seal of quality on the back

February 17 2011



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HOW TO READ THE PRODUCT KEY

Manufacturer	Source colour	Light Output Area/ Length	Injection process	Input voltage
PHLOX	- LEDR	- BL	- 150x40	- LLUB - Q - 1R - 24V
Source type	Product type	Range	Number of light sources' rows per circuit	

PHLOX® EXCLUSIVE LIGHT PROCESS  
WORLDWIDE PATENT ISSUED

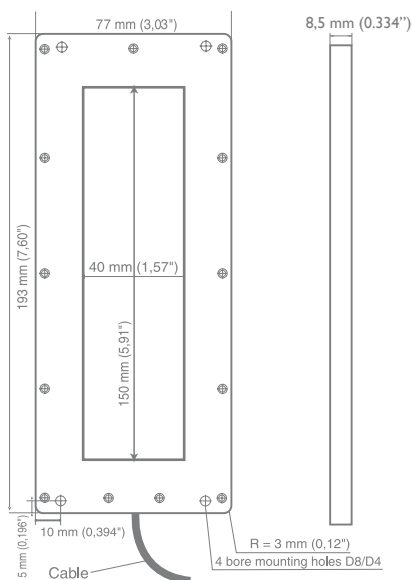
**NEW!**

# LLUB (Long Life Ultra Bright) Red led Backlight 150x40

LESS THAN 20% LUMINANCE LOSS AFTER 100 000 HOURS (\*)

(\*) room temperature = 20 °C

**PHLOX - LEDR - BL - 150x40 - LLUB - Q - 1R - 24V**



## Illumination

Luminance minimum	<b>9 500 cd/m<sup>2</sup> continuous mode</b>
Uniformity minimum	<b>90% (+/- 10%)</b>
Source Type	Red LED
Wavelength	625 nm (+/- 15)
Light Angular Distribution	30° 1/2 angle
Expected Life	<b>&gt; 100 000 hours</b>

## Electrical

Input Voltage	24 VDC (continuous mode)
Input Current	430 mA (continuous mode)
Cable length	2 M - Ø 2.6 mm (6.56 ft - Ø 0.10")
Connector	None
Cable pinout	±
CE Conformity	Yes
Strobe mode	Max. Cur: 2.15 A / Pulse Width: 10ms / Duty Ratio: 1/10

## Outer unit

L x W x H	193 x 77 x 8,5 mm (7.6 x 3.03 x 0.334")
Housing Material	Black Anodized Aluminium
Weight	240 g (8.47 oz)
Mounting	4 bore holes (D8 for the first 3.5 mm of height, D4 for the other 5.5 mm)

## Environmental

Max. Operating Humidity	95% non-condensing	area of temperature measurement 30 mm all along the edges of the back of the black anodized aluminium backlight
Operating Temperature	50°C (122°F) max	
Storage Temperature	60°C (140°F) max	
Shelf life	12 months from date of purchase	
Max.Temp.on housing	+80°C (+176°F)	on the back of the backlight, along the edges (see image)

Do not cover the backlight when it's switched on.

## Accessories

**Power supply:** 110V and 220V  
Product key: OMRON-LED-PS-108x100x40-24V

### « Strobe » Control Module

GARDASOFT RT Series Led Lighting Controllers  
You can find the nearest Distributor on  
<http://www.gardasoft.com/distributors.php?id=2>

CLASS 0: NO RISK (CIE S2009:2002/NF EN 62471)

**RoHS** directive compliant

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- Certificate of uniformity and luminance  
- Seal of quality on the back

February 17 2011

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## DESIGNED FOR YOUR APPLICATION

Bottle inspection (glass and plastic)  
Particle measurement  
Picture digitalization  
Dimensional control  
Shaping control  
Quality control with transparency.

## & YOUR INDUSTRIAL SECTOR

Glassmaking  
Pharmaceutical/Cosmetics  
Automotive  
Agribusiness  
Electronics  
Aeronautics and space.



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HOW TO READ THE PRODUCT KEY

Manufacturer	Source colour	Light Output Area/ Length	Injection process	Input voltage
PHLOX	LEDR	BL 160x120	LLUB Q	1R 24V
Source type		Product type	Range	Number of light sources' rows per circuit

PHLOX® EXCLUSIVE LIGHT PROCESS  
WORLDWIDE PATENT ISSUED

**NEW!**

# LLUB (Long Life Ultra Bright) Red led Backlight 160X120

LESS THAN 20% LUMINANCE LOSS AFTER 100 000 HOURS (\*)

(\*) room temperature = 20 °C

PHLOX - LEDR - BL - 160X120 - LLUB - Q - 1R - 24V

## Illumination

Luminance minimum	<b>6 000 cd/m<sup>2</sup> continuous mode</b>
Uniformity minimum	<b>95% (+/- 10%)</b>
Source Type	Red LED
Wavelength	625 nm (+/- 15)
Light Angular Distribution	30° 1/2 angle
Expected Life	<b>&gt; 100 000 hours</b>

## Electrical

Input Voltage	24 VDC (continuous mode)
Input Current	710 mA (continuous mode)
Cable length	2 M – Ø 2.6 mm (6.56 ft – Ø 0.10")
Connector	None
Cable pinout	
CE Conformity	Yes
Strobe mode	Max. Cur: 3.55 A / Pulse Width: 10ms / Duty Ratio: 1/10

## Outer unit

L x W x H	200 x 154 x 8.5 mm (7.87 x 6.06 x 0.334")
Housing Material	Black Anodized Aluminium
Weight	400 g (14.11 oz)
Mounting	4 bore holes (D8 for the first 3.5 mm of height, D4 for the other 5.5 mm)

## Environmental

Max. Operating Humidity	95% non-condensing
Operating Temperature	50°C (122°F) max
Storage Temperature	60°C (140°F) max
Shelf life	12 months from date of purchase
Max.Temp.on housing	+80°C (+176°F) on the back of the backlight, along the edges (see image)

area of temperature measurement  
30 mm all along the edges of the back of  
the black anodized aluminium backlight



Do not cover the backlight when it's switched on.

## Accessories

**Power supply:** 110V and 220V  
Product key: OMRON-LED-PS-108x100x40-24V

### « Strobe » Control Module

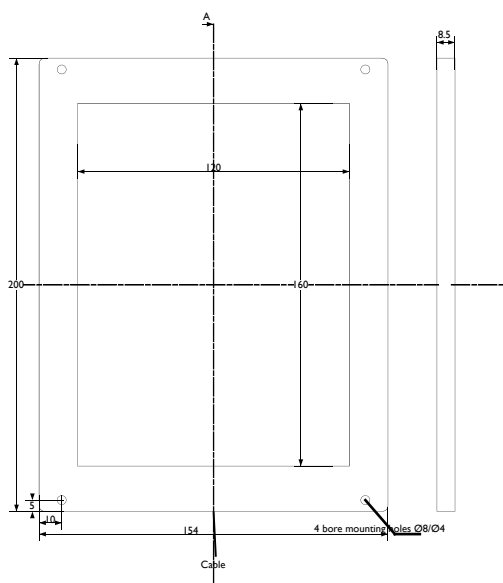
GARDASOFT RT Series Led Lighting Controllers  
You can find the nearest Distributor on  
<http://www.gardasoft.com/distributors.php?id=2>

CLASS 0: NO RISK (CIE S2009:2002/NF EN 62471)

**RoHS** directive compliant

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February 17 2011



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Bottle inspection (glass and plastic)  
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## & YOUR INDUSTRIAL SECTOR

Glassmaking  
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HOW TO READ THE PRODUCT KEY

Manufacturer	Source colour	Light Output Area/ Length	Injection process	Input voltage
PHLOX	LEDR	BL	200x20	LLUB
			Q	1R
				24V

Source type    Product type    Range    Number of light sources' rows per circuit

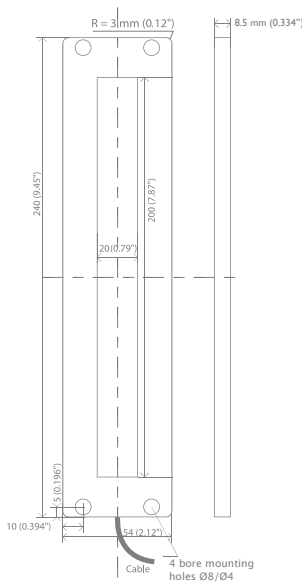
PHLOX® EXCLUSIVE LIGHT PROCESS  
WORLDWIDE PATENT ISSUED

**NEW!**

# LLUB (Long Life Ultra Bright) Red led Backlight 200x20

LESS THAN 20% LUMINANCE LOSS AFTER 100 000 HOURS (\*)  
(\*) room temperature = 20 °C

**PHLOX - LEDR - BL - 200x20 - LLUB - Q - 1R - 24V**



## Illumination

Luminance minimum	<b>6 000 cd/m<sup>2</sup> continuous mode</b>
Uniformity minimum	<b>95% (+/- 10%)</b>
Source Type	Red LED
Wavelength	625 nm (+/- 15)
Light Angular Distribution	30° 1/2 angle
Expected Life	<b>&gt; 100 000 hours</b>

## Electrical

Input Voltage	24 VDC (continuous mode)
Input Current	280 mA (continuous mode)
Cable length	2 M - Ø 2.6 mm (6.56 ft - Ø 0.10")
Connector	None
Cable pinout	±
CE Conformity	Yes
Strobe mode	Max. Cur: 1.4 A / Pulse Width: 10ms / Duty Ratio: 1/10

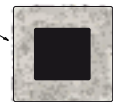
## Outer unit

L x W x H	240 x 54 x 8.5 mm (9.45 x 2.12 x 0.334")
Housing Material	Black Anodized Aluminium
Weight	200 g (7 oz)
Mounting	4 bore holes (D8 for the first 3.5 mm of height, D4 for the other 5.5 mm)

## Environmental

Max. Operating Humidity	95% non-condensing
Operating Temperature	50°C (122°F) max
Storage Temperature	60°C (140°F) max
Shelf life	12 months from date of purchase
Max.Temp.on housing	+80°C (+176°F) on the back of the backlight, along the edges (see image)

area of temperature measurement  
30 mm all along the edges of the back of  
the black anodized aluminium backlight



Do not cover the backlight when it's switched on.

## Accessories

**Power supply:** 110V and 220V  
Product key: OMRON-LED-PS-108x100x40-24V

### « Strobe » Control Module

GARDASOFT RT Series Led Lighting Controllers  
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CLASS 0: NO RISK (CIE S2009:2002/NF EN 62471)

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June 15 2011

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HOW TO READ THE PRODUCT KEY

Manufacturer Source colour Light Output Area/ Length Injection process Input voltage  
PHLOX - LEDR - BL - 200x200 - LLUB - Q - 1R - 24V  
Source type Product type Range Number of light sources' rows per circuit

PHLOX® EXCLUSIVE LIGHT PROCESS  
WORLDWIDE PATENT ISSUED

**NEW!**

# LLUB (Long Life Ultra Bright) Red led Backlight 200x200

LESS THAN 20% LUMINANCE LOSS AFTER 100 000 HOURS (\*)

(\*) room temperature = 20 °C

**PHLOX - LEDR - BL - 200x200 - LLUB - Q - 1R - 24V**

## Illumination

Luminance minimum	<b>5 000 cd/m<sup>2</sup> continuous mode</b>
Uniformity minimum	<b>95% (+/- 10%)</b>
Source Type	Red LED
Wavelength	625 nm (+/- 15)
Light Angular Distribution	30° 1/2 angle
Expected Life	<b>&gt; 100 000 hours</b>

## Electrical

Input Voltage	24 VDC (continuous mode)
Input Current	1.2 A (continuous mode)
Cable length	2 M - Ø 2.6 mm (6.56 ft - Ø 0.10")
Connector	None
Cable pinout	
CE Conformity	Yes
Strobe mode	Max. Cur: 6 A / Pulse Width: 10ms / Duty Ratio: 1/10

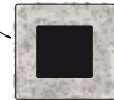
## Outer unit

L x W x H	240 x 234 x 8.5 mm (9.45 x 9.21 x 0.334")
Housing Material	Black Anodized Aluminium
Weight	640 g (22.54 oz)
Mounting	4 bore holes (D8 for the first 3.5 mm of height, D4 for the other 5.5 mm)

## Environmental

Max. Operating Humidity	95% non-condensing
Operating Temperature	50°C (122°F) max
Storage Temperature	60°C (140°F) max
Shelf life	12 months from date of purchase
Max.Temp.on housing	+80°C (+176°F) on the back of the backlight, along the edges (see image)

area of temperature measurement  
30 mm all along the edges of the back of  
the black anodized aluminium backlight



Do not cover the backlight when it's switched on.

## Accessories

**Power supply:** 110V and 220V  
Product key: OMRON-LED-PS-108x100x40-24V

« Strobe » Control Module  
GARDASOFT RT Series Led Lighting Controllers  
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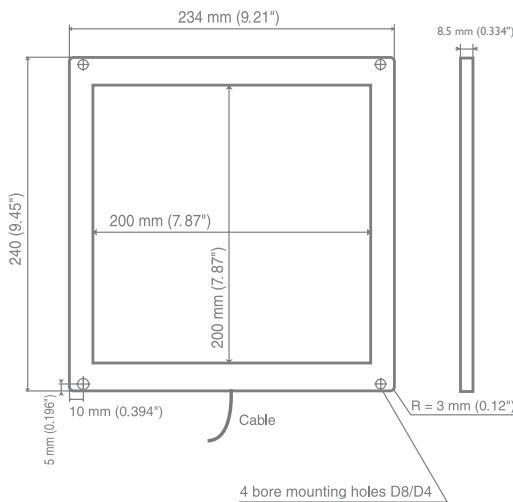
CLASS 0: NO RISK (CIE S2009:2002/NF EN 62471)

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**RoHS** directive compliant <sup>t</sup>

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A VISION  
AHEAD



HOW TO READ THE PRODUCT KEY

Manufacturer	Source colour	Light Output Area/ Length	Injection process	Input voltage
PHLOX	- LEDR	-BL - 400x200	-LLUB - Q - 1R	- 24V
Source type	Product type	Range	Number of light sources' rows per circuit	

PHLOX® EXCLUSIVE LIGHT PROCESS  
WORLDWIDE PATENT ISSUED

**NEW!**

# LLUB (Long Life Ultra Bright) Red led Backlight 400x200

LESS THAN 20% LUMINANCE LOSS AFTER 100 000 HOURS (\*)

(\*) room temperature = 20 °C

**PHLOX - LEDR - BL - 400x200 - LLUB - Q - 1R - 24V**

## Illumination

Luminance minimum	<b>3 000 cd/m<sup>2</sup> continuous mode</b>
Uniformity minimum	<b>95% (+/- 10%)</b>
Source Type	Red LED
Wavelength	625 nm (+/- 15)
Light Angular Distribution	30° 1/2 angle
Expected Life	<b>&gt; 100 000 hours</b>

## Electrical

Input Voltage	24 VDC (continuous mode)
Input Current	1.5 A (continuous mode)
Cable length	2 M - Ø 2.6 mm (6.56 ft - Ø 0.10")
Connector	None
Cable pinout	
CE Conformity	Yes
Strobe mode	Max. Cur: 7.5 A / Pulse Width: 10ms / Duty Ratio: 1/10

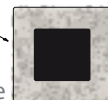
## Outer unit

L x W x H	440 x 234 x 8.5 mm (17.32 x 9.21 x 0.334")
Housing Material	Black Anodized Aluminium
Weight	1 160 g (40.91 oz)
Mounting	4 bore holes (D8 for the first 3.5 mm of height, D4 for the other 5.5 mm)

## Environmental

Max. Operating Humidity	95% non-condensing
Operating Temperature	50°C (122°F) max
Storage Temperature	60°C (140°F) max
Shelf life	12 months from date of purchase
Max.Temp.on housing	+80°C (+176°F) on the back of the backlight, along the edges (see image)

area of temperature measurement  
30 mm all along the edges of the back of  
the black anodized aluminium backlight



Do not cover the backlight when it's switched on.

## Accessories

**Power supply:** 110V and 220V  
Product key: OMRON-LED-PS-108x100x40-24V

### « Strobe » Control Module

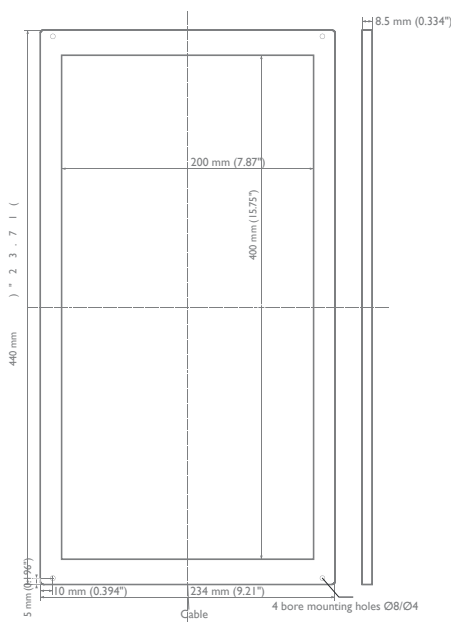
GARDASOFT RT Series Led Lighting Controllers  
You can find the nearest Distributor on  
<http://www.gardasoft.com/distributors.php?id=2>

CLASS 0: NO RISK (CIE S2009:2002/NF EN 62471)

**RoHS** directive compliant

Each PHLOX Backlight is provided with:  
- 24 months warranty  
- Certificate of uniformity and luminance  
- Seal of quality on the back

February 17 2011



**LLUB Backlights by PHLOX®** offer the **best life cycle**, the **best chromaticity stability** and the **best luminance on the market**, all in an ultra compact and IP-65 body. **PHLOX®** is the only manufacturer to provide uniformity and luminance datas on the quality control seal positioned at the back of every backlight.

## DESIGNED FOR YOUR APPLICATION

- Bottle inspection (glass and plastic)
- Particle measurement
- Picture digitalization
- Dimensional control
- Shaping control
- Quality control with transparency.

## & YOUR INDUSTRIAL SECTOR

- Glassmaking
- Pharmaceutical/Cosmetics
- Automotive
- Agribusiness
- Electronics
- Aeronautics and space.



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