





Light for advertising

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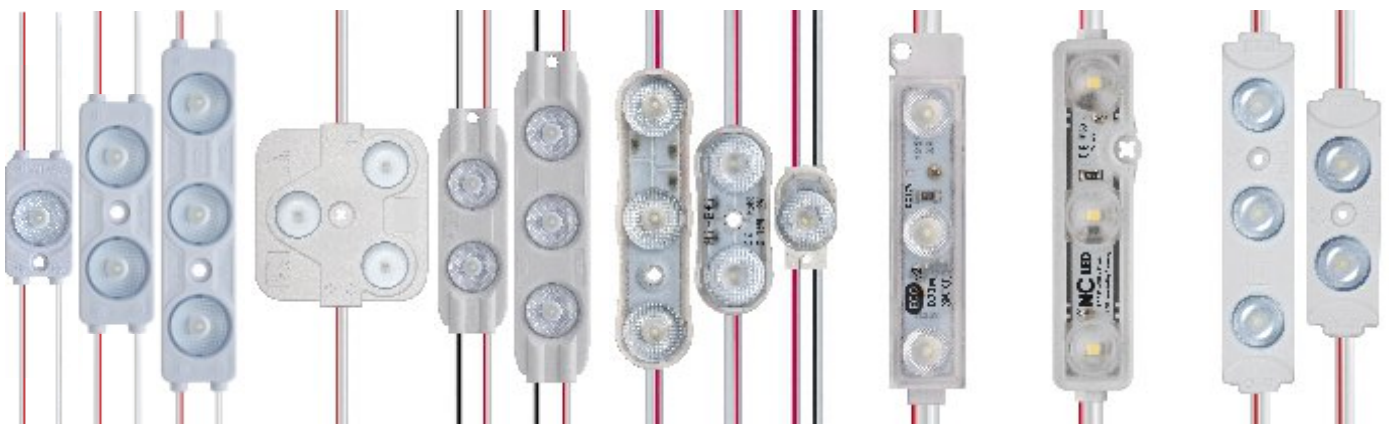
## WIDE ANGLE LED MODULES



| TYPE                    | CITI V3                                                                             |                                         |                         | ARENA V4                                                                            | PANORAMA MINI/<br>PANORAMA MINI<br>CRISTAL                                          |                      | PANORAMA<br>12V 2W                                                                    | PANORAMA<br>II                                                                        | PANORAMA<br>HE 1,5W                                                                   |
|-------------------------|-------------------------------------------------------------------------------------|-----------------------------------------|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| IP RATING               |  |                                         |                         |  |  |                      |  |  |  |
| BEAM ANGLE [°]          |  |                                         |                         |  |  |                      |  |  |  |
| WARRANTY                |  |                                         |                         |  |  |                      |  |  |  |
| LED CHIP                | 2835                                                                                |                                         |                         | 2835                                                                                | 2835                                                                                |                      | 3030                                                                                  | 3030                                                                                  | 2835                                                                                  |
| RATED POWER [W]         | 1,08                                                                                | 0,72                                    | 0,72<br>2 LED           | 1,2                                                                                 | 1,0                                                                                 |                      | 2,0                                                                                   | 2,0                                                                                   | 1,5                                                                                   |
| COLOR TEMPERATURE [°K]  | 4000<br>6500<br>8000<br>9500                                                        | 3000<br>4000<br>6500<br>8000<br>R, G, B | 6500<br>8000<br>R, G, B | 6500<br>9500                                                                        | 3000<br>4000<br>5000<br>7000<br>8000                                                | 4000<br>5000<br>7000 | 6500                                                                                  | 4000<br>6500                                                                          | 6500<br>8000                                                                          |
| VOLTAGE [V]             | 12/24                                                                               |                                         |                         | 12                                                                                  | 12                                                                                  | 24                   | 12                                                                                    | 12                                                                                    | 24                                                                                    |
| LIGHT EFFICIENCY [lm/W] | 93                                                                                  | 64                                      | 43                      | 100                                                                                 | 90                                                                                  |                      | 90                                                                                    | 90                                                                                    | 135                                                                                   |
| APPLICATION             | suggested for chanel letters from 60mm deep                                         |                                         |                         | suggested for chanel letters from 70mm deep                                         | suggested for chanel letters from 50mm deep                                         |                      | light boxes from 85 mm                                                                | light boxes from 85 mm                                                                | light boxes from 85 mm                                                                |



# LED MODULES COMPARISON



| SUBLENS V2                               |     |     | SUBLENS 5W                          |      | SUBLENS HE                               |     | HI-EFI                                                        |      |                      | ECO LENS V2                                                   | NC LENS SAMSUNG                          | L-LED                                                        |                |     |
|------------------------------------------|-----|-----|-------------------------------------|------|------------------------------------------|-----|---------------------------------------------------------------|------|----------------------|---------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------|----------------|-----|
| IP 65                                    |     |     | IP 65                               |      | IP 65                                    |     | IP 67                                                         |      |                      | IP 68                                                         | IP 68                                    | IP 68                                                        | IP 65          |     |
| 170°                                     |     |     | 170°                                |      | 170°                                     |     | 170°                                                          |      |                      | 160°                                                          | 140°                                     | 160°                                                         |                |     |
| 5 YEAR                                   |     |     | 5 YEAR                              |      | 5 YEAR                                   |     | 5 YEAR                                                        |      |                      | 4 YEAR                                                        | 5 YEAR                                   | 4 YEAR                                                       |                |     |
| 2835                                     |     |     | 3030                                |      | 2835                                     |     | 3030                                                          |      |                      | 2835                                                          | 2835                                     | 2835                                                         |                |     |
| 0,4                                      | 0,8 | 1,2 | 5,0                                 |      | 0,7                                      | 1,0 | 0,36                                                          | 0,72 | 1,08                 | 0,72                                                          | 1,0                                      | 0,72                                                         | 1,0            | 1,2 |
| 4000<br>6500<br>7500                     |     |     | 4000<br>6500                        | 6500 | 6500                                     |     | 6000<br>7000                                                  |      | 4000<br>6000<br>7000 | 3000<br>4000<br>6500<br>8000<br>R, G, B                       | 4000<br>6500<br>9000                     | 7000                                                         | 6500<br>10 000 |     |
| 12                                       |     |     | 12                                  | 48   | 12                                       |     | 12                                                            |      |                      | 12                                                            | 12                                       | 12                                                           |                |     |
| 115                                      |     |     | 100                                 |      | 170                                      |     | 150                                                           |      |                      | 80                                                            | 93                                       | 63                                                           | 90             | 100 |
| channel letters & light boxes from 55 mm |     |     | light boxes from 120 mm 9-12 pcs/m2 |      | channel letters & light boxes from 55 mm |     | suggested for chanel letters from 80mm deep, high efficiency. |      |                      | suggested for chanel letters from 70mm deep, 50 pcs in chain. | channel letters & light boxes from 80 mm | suggested for chanel letters and light boxes from 70mm depth |                |     |

## WIDE ANGLE LED MODULES



| TYPE                    | XBAR 180                                      |      |                        | XBAR 170                                      |              | RGB LENS                                       |
|-------------------------|-----------------------------------------------|------|------------------------|-----------------------------------------------|--------------|------------------------------------------------|
| IP RATING               | IP 20                                         |      |                        | IP 20                                         |              | IP 65                                          |
| BEAM ANGLE [°]          | 180°                                          |      |                        | 170°                                          |              | 170°                                           |
| WARRANTY                | 3 YEAR                                        |      |                        | 3 YEAR                                        |              | 5 YEAR                                         |
| LED CHIP                | 2835                                          |      |                        | 3030                                          |              | 2835                                           |
| RATED POWER [W]         | 5,4                                           | 9,16 | 14,4                   | 9,16                                          | 14,4         | 0,72                                           |
| COLOR TEMPERATURE [°K]  | 6500                                          | 6500 | 4000<br>6500<br>10 000 | 6500                                          | 4000<br>6500 | RGB                                            |
| VOLTAGE [V]             | 12/24                                         |      |                        | 12                                            | 24           | 12                                             |
| LIGHT EFFICIENCY [lm/W] | 130                                           |      |                        | 130                                           |              | R-21, G-62, B-15,<br>W-32                      |
| APPLICATION             | suggested for light boxes<br>from 40mm deepth |      |                        | suggested for light boxes<br>from 50mm deepth |              | channel letters<br>& light boxes<br>from 80 mm |

# LED MODULES COMPARISON

## MINI, MICRO LED MODULES



| MINI 183*142                                   |      |      | MINI 140                              |      |      | MINI 170                              | MINI 170 V2                           | MINI 170 HE                                            | MICRO LENS                                        | MICRO PRO               |                      | MINI Z                                             |     |
|------------------------------------------------|------|------|---------------------------------------|------|------|---------------------------------------|---------------------------------------|--------------------------------------------------------|---------------------------------------------------|-------------------------|----------------------|----------------------------------------------------|-----|
| IP 67                                          |      |      | IP 65                                 |      |      | IP 67                                 | IP 67                                 | IP 65                                                  | IP 67                                             | IP 67                   |                      | IP 66                                              |     |
| 142x183°                                       |      |      | 140°                                  |      |      | 130x170°                              | 170°                                  | 170°                                                   | 140°                                              | 120°                    |                      | 120°                                               |     |
| 5 YEAR                                         |      |      | 5 YEAR                                |      |      | 5 YEAR                                | 5 YEAR                                | 5 YEAR                                                 | 5 YEAR                                            | 4 YEAR                  |                      | 3 YEAR                                             |     |
| 2835                                           |      |      | 2835                                  |      |      | 2835                                  | 2835                                  | 2835                                                   | 2835                                              | 2835                    |                      | 4014                                               |     |
| 0,24                                           | 0,48 | 0,72 | 0,36                                  | 0,50 | 0,60 | 0,36                                  | 0,36                                  | 0,24                                                   | 0,20                                              | 0,1                     | 0,2                  | 0,385                                              | 0,4 |
| 3000<br>4000<br>6500<br>8000<br>R, G, B        |      |      | 3000<br>4000<br>6500<br>8000          |      |      | 4000<br>5000<br>7000<br>R, G, B       | 4500<br>6500<br>R, G, B               | 7000                                                   | 4000<br>7100                                      | 6500<br>8000            | 4000<br>6500<br>8000 | 4000<br>8000                                       |     |
| 12                                             |      |      | 12                                    |      |      | 12                                    | 12                                    | 12                                                     | 12                                                | 12                      |                      | 12                                                 |     |
| 96                                             |      |      | 100                                   |      |      | 105                                   | 120                                   | 165                                                    | 165                                               | 100                     |                      | 104                                                | 138 |
| the small chanel letters from a depth of 40 mm |      |      | small chanel letters from 40 mm depth |      |      | small chanel letters from 40 mm depth | small chanel letters from 40 mm depth | small chanel letters from 40 mm depth, high efficiency | the smallest chanel letters from a depth of 35 mm | Acrylic channel letters |                      | the narrowest chanel letters from a depth of 40 mm |     |

## EDGE LIGHTING



| TYPE                    | MINI SEM                                    | SEMAFOR II                                   | SEMAFOR 3W                                   | SEMAFOR 4,5W                                 | MINI SEM 3                                 | SEMAFOR 3 3,6W/24V                          |
|-------------------------|---------------------------------------------|----------------------------------------------|----------------------------------------------|----------------------------------------------|--------------------------------------------|---------------------------------------------|
| IP RATING               | IP 65                                       | IP 65                                        | IP 65                                        | IP 65                                        | IP 65                                      | IP 65                                       |
| BEAM ANGLE [°]          | 15x45°                                      | 15x45°                                       | 6x45°                                        | 15x45°                                       | 10x65°                                     | 10x60°                                      |
| WARRANTY                | 4 YEAR                                      | 4 YEAR                                       | 4 YEAR                                       | 5 YEAR                                       | 4 YEAR                                     | 3 LATA                                      |
| LED CHIP                | 3030                                        | 3030                                         | 3535                                         | 3535                                         | 2835                                       | 3030                                        |
| RATED POWER [W]         | 1,2                                         | 2                                            | 3                                            | 4,5                                          | 2,5                                        | 3,6                                         |
| COLOR TEMPERATURE [°K]  | 6500<br>10 000                              | 4000<br>6500                                 | 6500                                         | 6500                                         | 4000<br>6500                               | 6000                                        |
| VOLTAGE [V]             | 12                                          | 12                                           | 12                                           | 12                                           | 12                                         | 24                                          |
| LIGHT EFFICIENCY [lm/W] | 100                                         | 80                                           | 70                                           | 92                                           | 96                                         | 110                                         |
| APPLICATION             | light box up to 800 mm high/<br>100 mm wide | light box up to 1000 mm high/<br>100 mm wide | light box up to 1500 mm high/<br>100 mm wide | light box up to 2500 mm high/<br>100 mm wide | light box up to 800 mm high/<br>80 mm wide | light box up to 1800 mm high/<br>80 mm wide |

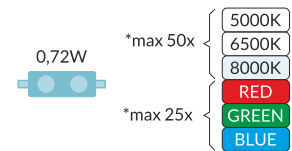
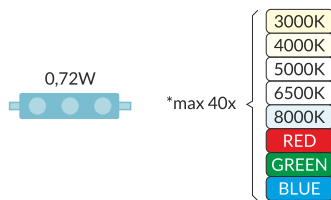
# LED MODULES COMPARISON



| SEMAFOR 3<br>3W/12V                         | SEMAFOR XL                                  |    | SEMAFOR XL V2                               |      |      |       |
|---------------------------------------------|---------------------------------------------|----|---------------------------------------------|------|------|-------|
| IP 65                                       | IP 65                                       |    | IP 60                                       |      |      |       |
| 10x50°                                      | 20x40°                                      |    | 7x30°                                       |      |      |       |
| 5 YEAR                                      | 4 YEAR                                      |    | 3 YEAR                                      |      |      |       |
| 3030                                        | 3030                                        |    | 3535                                        |      |      |       |
| 3                                           | 11                                          | 22 | 8,16                                        | 13,5 | 15,6 | 15,98 |
| 6500                                        | 6000                                        |    | 6500                                        |      |      |       |
| 12                                          | 24                                          |    | 24                                          |      |      |       |
| 100                                         | 82                                          |    | 120                                         |      |      |       |
| light box up to 1800 mm high/<br>80 mm wide | light box up to 2500 mm high/<br>46 mm wide |    | light box up to 2500 mm high/<br>80 mm wide |      |      |       |

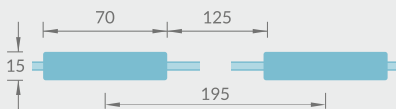
## CITI LENS V3

Universal wide-angle 175° modules with extended warranty

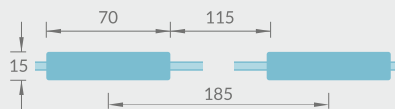


\*Maximum number of modules to be connected in one chain

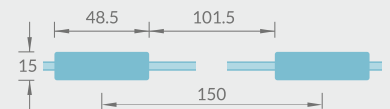
### 3LED - 1,08W



### 3LED - 0,72W



### 2LED - 0,72W



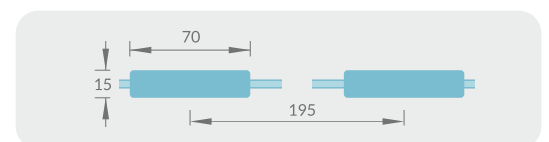
| TYPE                         |        | CITI V3                    |         |                      |
|------------------------------|--------|----------------------------|---------|----------------------|
| LED CHIP                     |        | 2835                       |         |                      |
| RATED POWER                  | [w]    | 1,08                       | 0,72    | 0,72                 |
| COLOR TEMPERATURE            | [°K]   | 4000                       | 3000    | 6500                 |
|                              |        | 6500                       | 4000    | 8000                 |
|                              |        | 8000                       | 6500    | R, G, B              |
|                              |        | 9500                       | 8000    |                      |
|                              |        |                            | R, G, B |                      |
| IP RATING                    |        | IP65                       |         |                      |
| VOLTAGE                      | [V]    | 12/24                      |         |                      |
| BEAM ANGLE                   | [°]    | 175                        |         |                      |
| LIGHT EFFICIENCY             | [lm/w] | 93                         | 64      | 43                   |
| DIMENSIONS                   | [mm]   | 70x15x7,7                  |         | 48,5x15x7,7          |
| LED SPACING                  | [mm]   | 195                        | 185     | 150                  |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 35                         | 40      | 50 white<br>25 color |
| WARRANTY                     | [year] | 7                          |         |                      |
| APPLICATION                  |        | channel letters from 60 mm |         |                      |

## ARENA LENS V4

Universal and strong wide angle modules with extended warranty



| TYPE                         |        | ARENA V4                   |  |
|------------------------------|--------|----------------------------|--|
| LED CHIP                     |        | 2835                       |  |
| RATED POWER                  | [w]    | 1,2                        |  |
| COLOR TEMPERATURE            | [°K]   | 6500                       |  |
|                              |        | 9500                       |  |
|                              |        |                            |  |
| IP RATING                    |        | IP65                       |  |
| VOLTAGE                      | [V]    | 12                         |  |
| BEAM ANGLE                   | [°]    | 175                        |  |
| LIGHT EFFICIENCY             | [lm/w] | 100                        |  |
| DIMENSIONS                   | [mm]   | 70x15x7,7                  |  |
| LED SPACING                  | [mm]   | 195                        |  |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 35                         |  |
| WARRANTY                     | [year] | 7                          |  |
| APPLICATION                  |        | channel letters from 70 mm |  |





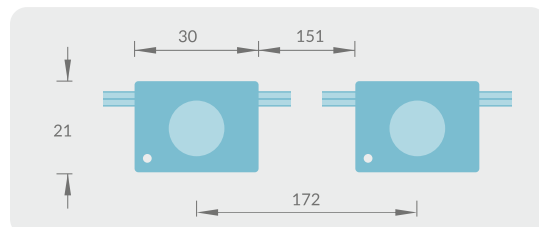
# WIDE ANGLE LED MODULES

## PANORAMA MINI

Wide-angle LED modules for shallow advertisements



IP 65 175° 5 YEAR 3000K to 6500K 12V 24V CONSTANT CURRENT DRIVING SYSTEM

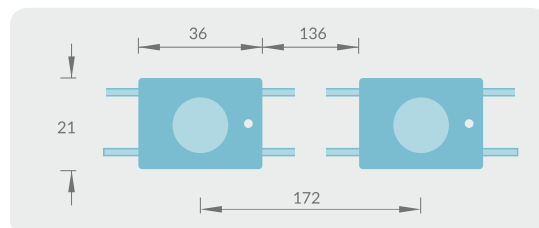


## PANORAMA MINI CRISTAL

Wide-angle LED modules for shallow advertisements



IP 65 175° 5 YEAR 4000K to 7000K CONSTANT CURRENT DRIVING SYSTEM



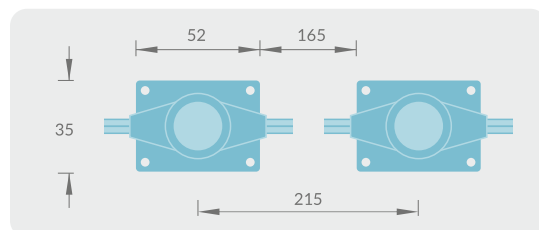
| TYPE                         |        | PANORAMA MINI                        |     | PANORAMA MINI CRISTAL |     |
|------------------------------|--------|--------------------------------------|-----|-----------------------|-----|
| LED CHIP                     |        | 2835                                 |     |                       |     |
| RATED POWER                  | [w]    | 0,6                                  | 1,0 | 0,6                   | 1,0 |
| COLOR TEMPERATURE            | [°K]   | 3000<br>4000<br>5000<br>7000<br>8000 |     | 4000<br>5000<br>7000  |     |
| IP RATING                    |        | IP65                                 |     | IP65                  |     |
| VOLTAGE                      | [V]    | 12                                   | 24  | 12                    | 24  |
| BEAM ANGLE                   | [°]    | 175                                  |     | 175                   |     |
| LIGHT EFFICIENCY             | [lm/w] | 90                                   |     | 90                    |     |
| DIMENSIONS                   | [mm]   | 30x21x7                              |     | 36x21x8               |     |
| LED SPACING                  | [mm]   | 172                                  |     | 172                   |     |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 20                                   | 50  | 20                    |     |
| WARRANTY                     | [year] | 5                                    |     | 5                     |     |
| APPLICATION                  |        | light boxes from 50 mm               |     |                       |     |

## PANORAMA 12V 2W

Powerful wide-angle lens modules for light boxes



IP 65 160° 5 YEAR 6500K

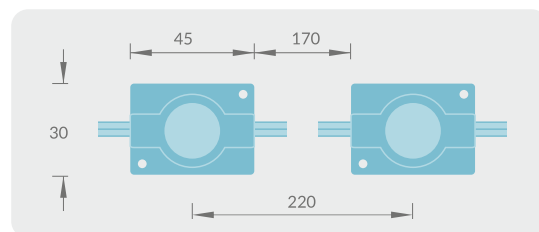


## PANORAMA II

Powerful wide-angle lens modules for light boxes

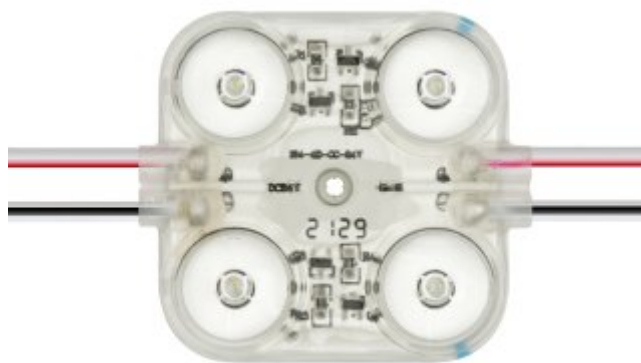


IP 65 165° 5 YEAR 4000K 6500K CONSTANT CURRENT DRIVING SYSTEM

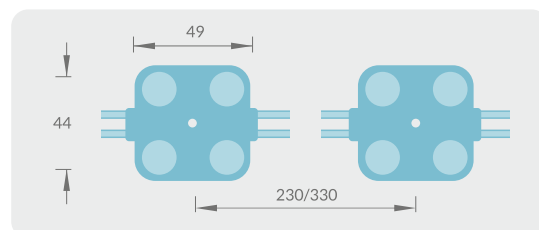


## PANORAMA HE 1,5W

Wide-angle lens modules for light boxes, high efficiency



IP 65 170° 5 YEAR 4000K 6500K CONSTANT CURRENT DRIVING SYSTEM

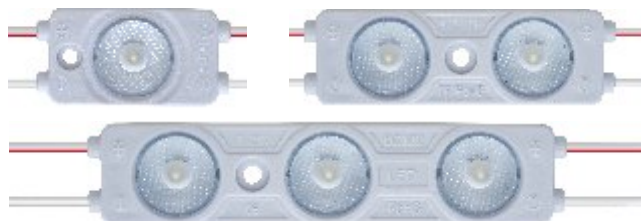


| TYPE                         |        | PANORAMA 12V 2W        | PANORAMA II            | PANORAMA HE 1,5W       |
|------------------------------|--------|------------------------|------------------------|------------------------|
| LED CHIP                     |        | 3030                   | 3030                   | 2835                   |
| RATED POWER                  | [w]    | 2,0                    | 2,0                    | 1,5                    |
| COLOR TEMPERATURE            | [°K]   | 6500                   | 4000<br>6500           | 6500-7000<br>7000-8000 |
| IP RATING                    |        | IP65                   | IP65                   | IP65                   |
| VOLTAGE                      | [V]    | 12                     | 12                     | 24                     |
| BEAM ANGLE                   | [°]    | 160                    | 165                    | 170                    |
| LIGHT EFFICIENCY             | [lm/w] | 90                     | 90                     | 135                    |
| DIMENSIONS                   | [mm]   | 52x35x7,3              | 45x30x7,6              | 49x44x8,5              |
| LED SPACING                  | [mm]   | 215                    | 220                    | 230/330                |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 20                     | 20                     | 20                     |
| WARRANTY                     | [year] | 5                      | 5                      | 5                      |
| APPLICATION                  |        | light boxes from 85 mm | light boxes from 85 mm | light boxes from 85 mm |

# WIDE ANGLE LED MODULES

## SUB LENS V2

Lens modules with 170 degrees light beam.

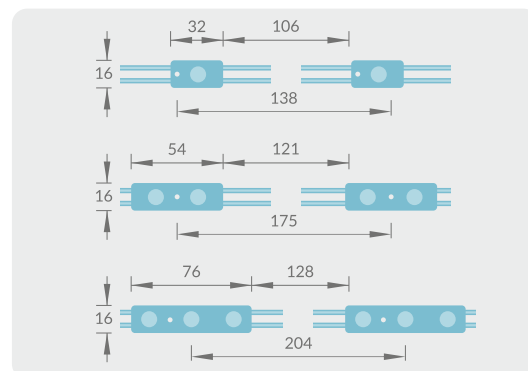


IP 65

170°

5 YEAR

4000K  
do  
9500K



## SUB LENS HE

Wide-angle modules with high luminous efficiency - 170lm / W

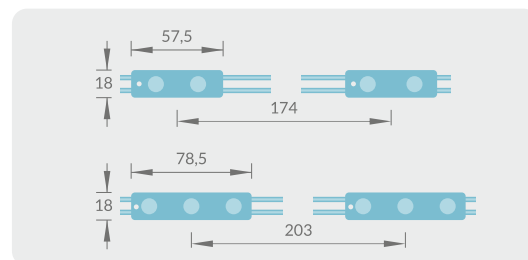


IP 65

170°

5 YEAR

6500K  
7000K



## SUB LENS 5W

High power wide angle lens modules for large advertising; 9 modules / m²

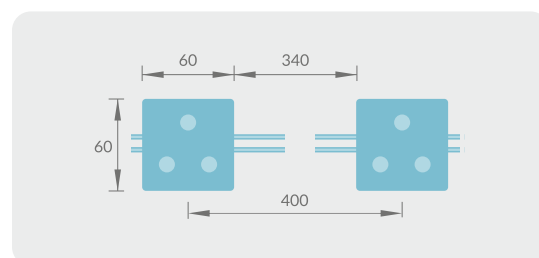


IP 65

170°

5 YEAR

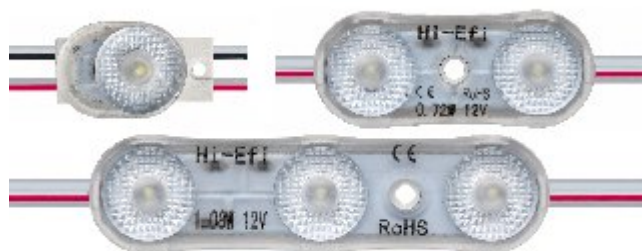
6500K



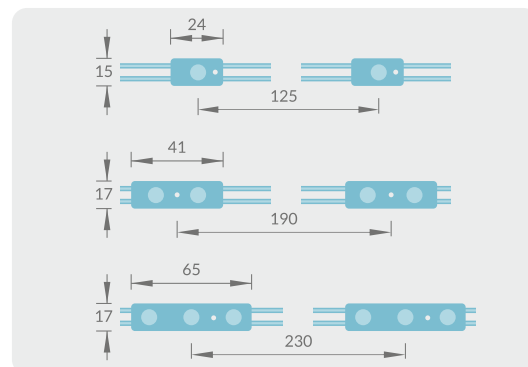
| TYPE                         |        | SUBLENS V2                              |           |           | SUBLENS HE                              |             | SUBLENS 5W                          |      |
|------------------------------|--------|-----------------------------------------|-----------|-----------|-----------------------------------------|-------------|-------------------------------------|------|
| LED CHIP                     |        | 2835                                    |           |           | 2835                                    |             | 3030                                |      |
| RATED POWER                  | [w]    | 0,4                                     | 0,8       | 1,2       | 0,7                                     | 1,0         | 5,0                                 |      |
| COLOR TEMPERATURE            | [°K]   | 4000                                    |           |           | 6500                                    |             | 4000                                | 6500 |
|                              |        | 6500                                    |           |           |                                         |             |                                     |      |
|                              |        | 7500                                    |           |           |                                         |             |                                     |      |
| IP RATING                    |        | IP65                                    |           |           | IP65                                    |             | IP65                                |      |
| VOLTAGE                      | [V]    | 12                                      |           |           | 12                                      |             | 12                                  | 48   |
| BEAM ANGLE                   | [°]    | 170                                     |           |           | 170                                     |             | 170                                 |      |
| LIGHT EFFICIENCY             | [lm/w] | 115                                     |           |           | 170                                     |             | 100                                 |      |
| DIMENSIONS                   | [mm]   | 32x16x6,5                               | 54x16x6,5 | 72x16x6,5 | 57,5x18x7,5                             | 78,5x18x7,5 | 60x60x4                             |      |
| LED SPACING                  | [mm]   | 138                                     | 175       | 204       | 174                                     | 203         | 400                                 |      |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 25                                      | 25        | 30        | 20                                      |             | 10                                  |      |
| WARRANTY                     | [year] | 5                                       |           |           | 5                                       |             | 5                                   |      |
| APPLICATION                  |        | channel letters, light boxes from 55 mm |           |           | channel letters, light boxes from 55 mm |             | light boxes from 120 mm 9-12 pcs/m2 |      |

## HI-EFI

Wide-angle modules with high luminous efficiency - 150lm / W



IP 67 170° 5 YEAR 4000 K to 7000 K



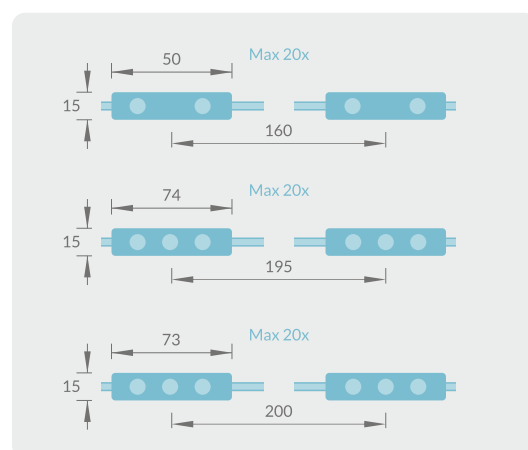
| TYPE                         |        | HI-EFI                     |          |                      |
|------------------------------|--------|----------------------------|----------|----------------------|
| LED CHIP                     |        | 3030                       |          |                      |
| RATED POWER                  | [w]    | 0,36                       | 0,72     | 1,08                 |
| COLOR TEMPERATURE            | [°K]   | 6000<br>7000               |          | 4000<br>6000<br>7000 |
| IP RATING                    |        | IP67                       |          |                      |
| VOLTAGE                      | [V]    | 12                         |          |                      |
| BEAM ANGLE                   | [°]    | 170                        |          |                      |
| LIGHT EFFICIENCY             | [lm/w] | 150                        |          |                      |
| DIMENSIONS                   | [mm]   | 24x15x10                   | 41x17x10 | 65x17x10             |
| LED SPACING                  | [mm]   | 125                        | 190      | 230                  |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 20                         |          |                      |
| WARRANTY                     | [year] | 5                          |          |                      |
| APPLICATION                  |        | channel letters from 80 mm |          |                      |

## L-LED

Modern lens modules with a beam angle of 160° with a power of 1.2W and 0.72W



IP 68 IP 65 160° 4 YEAR 6500 K do 10 000 K



## L-LED 1.2W

Economic 1,2W modules



| TYPE                         |        | L-LED                                   |           |                |
|------------------------------|--------|-----------------------------------------|-----------|----------------|
| LED CHIP                     |        | 2835                                    |           |                |
| RATED POWER                  | [w]    | 0,72                                    | 1,0       | 1,2            |
| COLOR TEMPERATURE            | [°K]   | 7000                                    |           | 6500<br>10 000 |
| IP RATING                    |        | IP68                                    |           | IP65           |
| VOLTAGE                      | [V]    | 12                                      |           |                |
| BEAM ANGLE                   | [°]    | 160                                     |           |                |
| LIGHT EFFICIENCY             | [lm/w] | 63                                      | 90        | 100            |
| DIMENSIONS                   | [mm]   | 50x15x6,5                               | 74x15x8,6 | 50x15x5,5      |
| LED SPACING                  | [mm]   | 160                                     | 195       | 200            |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 20                                      |           |                |
| WARRANTY                     | [year] | 4                                       |           |                |
| APPLICATION                  |        | channel letters, light boxes from 75 mm |           |                |

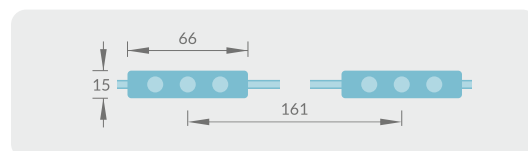
# WIDE ANGLE LED MODULES

## NC LENS SAMSUNG

Economic modules equipped with lenses - 140° light beam with chipset SAMSUNG 2835



IP 68 140° 5 YEAR 4000K do 9000K

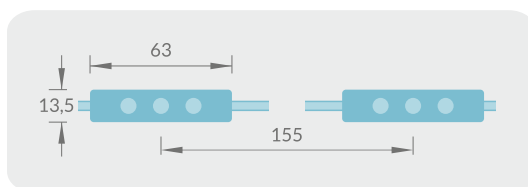


## ECO LENS V2

Economic modules equipped with lenses - 160° light beam



IP 68 160° 4 YEAR 625 525 460



| TYPE                         |        | NC LENS                                 | ECO LENS V2                  |
|------------------------------|--------|-----------------------------------------|------------------------------|
| LED CHIP                     |        | 2835                                    | 2835                         |
| RATED POWER                  | [w]    | 1,0                                     | 0,72                         |
| COLOR TEMPERATURE            | [°K]   | 4000                                    | 3000                         |
|                              |        | 6500                                    | 4000                         |
|                              |        | 9000                                    | 6500                         |
|                              |        |                                         | 8000                         |
| IP RATING                    |        | IP68                                    | Red, Green, Blue<br>IP68     |
| VOLTAGE                      | [V]    | 12                                      | 12                           |
| BEAM ANGLE                   | [°]    | 140                                     | 160                          |
| LIGHT EFFICIENCY             | [lm/w] | 93                                      | 80                           |
| DIMENSIONS                   | [mm]   | 66x15x11                                | 68x13,8x8,5                  |
| LED SPACING                  | [mm]   | 161                                     | 155                          |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 50                                      | 50                           |
| WARRANTY                     | [year] | 5                                       | 4                            |
| APPLICATION                  |        | channel letters, light boxes from 80 mm | lowercase letters from 65 mm |

## RGB LENS

IP 65 5 YEAR

Any light color in a compact housing



## RGB



## DIGITAL RGB + IC

Digital RGB modules



## RGBW



| TYPE                         |        | RGB LENS                                | RGB                    | RGBW                   | DIGITAL RGB + IC       |
|------------------------------|--------|-----------------------------------------|------------------------|------------------------|------------------------|
| LED CHIP                     |        | 5050                                    | 5050                   | 5050                   | 5050                   |
| RATED POWER                  | [w]    | 0,72                                    | 0,72                   | 0,72                   | 0,72                   |
| COLOR TEMPERATURE            | [°K]   | RGB                                     | RGB                    | RGB                    | RGB                    |
| IP RATING                    |        | IP65                                    | IP65                   | IP65                   | IP65                   |
| VOLTAGE                      | [V]    | 12                                      | 12                     | 12                     | 12                     |
| BEAM ANGLE                   | [°]    | 170                                     | 140                    | 140                    | 140                    |
| LIGHT EFFICIENCY             | [lm/w] | R-25, G-56, B-15, W-32                  | R-25, G-56, B-15, W-78 | R-25, G-56, B-15, W-32 | R-32, G-62, B-28, W-16 |
| DIMENSIONS                   | [mm]   | 78x17,8x8,3                             | 65x14,5x7,4            | 74x18x6,5              | 69x15x7                |
| LED SPACING                  | [mm]   | 204                                     | 160                    | 160                    | 157                    |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 20                                      | 20                     | 20                     | 20                     |
| WARRANTY                     | [year] | 5                                       | 5                      | 5                      | 5                      |
| APPLICATION                  |        | channel letters, light boxes from 80 mm |                        |                        |                        |

XBAR 180° board

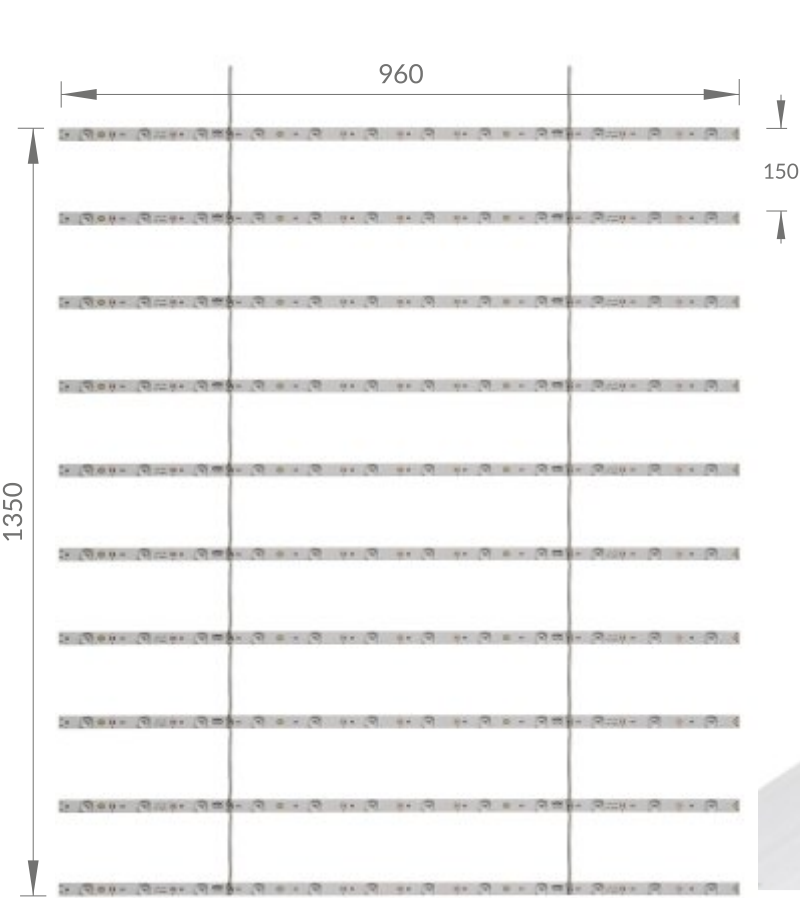
Innovative lenses with a beam angle of 180 ° to a depth of 35-60 mm

IP20

180°

3 YEAR

6500 K to 10 000 K



ONLY WITH US A LENS WITH A BEAM ANGLE OF 180°

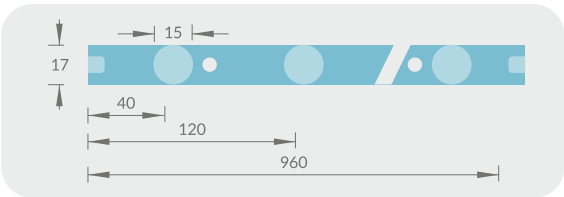
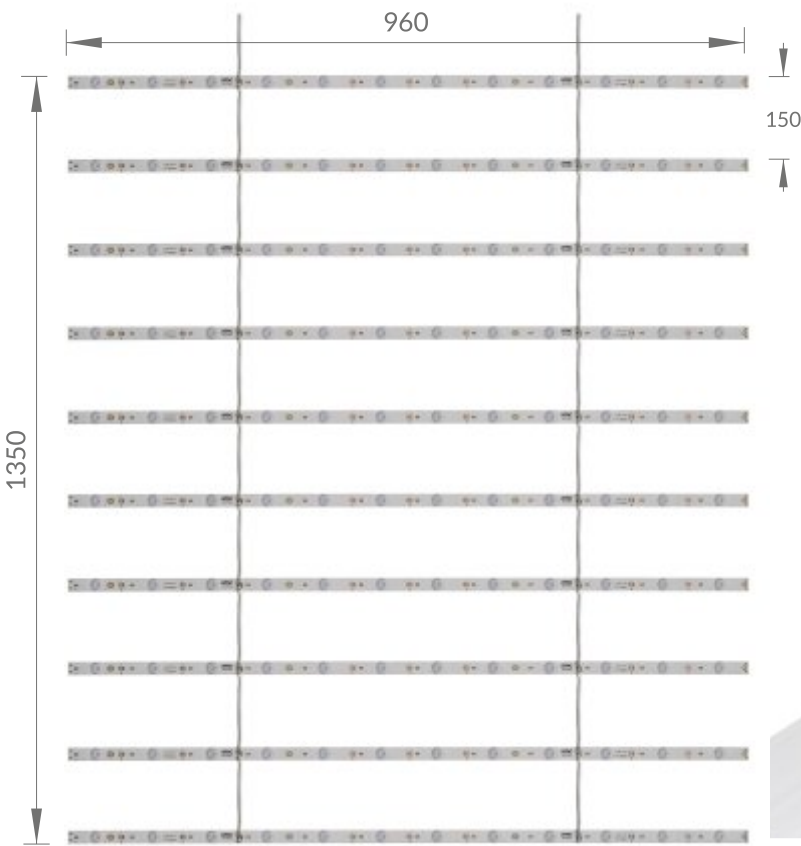
| TYPE                         |        | XBAR 180             |      |                        |
|------------------------------|--------|----------------------|------|------------------------|
| LED CHIP                     |        | 2835                 |      |                        |
| RATED POWER                  | [w]    | 5,4                  | 9,16 | 14,4                   |
| COLOR TEMPERATURE            | [°K]   | 6500                 | 6500 | 4000<br>6500<br>10 000 |
| IP RATING                    |        | IP20                 |      |                        |
| VOLTAGE                      | [V]    | 12/24                |      |                        |
| BEAM ANGLE                   | [°]    | 180                  |      |                        |
| LIGHT EFFICIENCY             | [lm/w] | 130                  |      |                        |
| DIMENSIONS                   | [mm]   | 960x17x10            |      |                        |
| LED SPACING                  | [mm]   | -                    |      |                        |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 10                   |      |                        |
| WARRANTY                     | [year] | 3                    |      |                        |
| APPLICATION                  |        | light box from 40 mm |      |                        |

# WIDE ANGLE LED MODULES

## XBAR 170° board

LED bar with 170 degree lens, for light boxes from 50 mm deep

IP 20 170° 3 YEAR 6500 K



## XBAR 170°



| TYPE                         |        | XBAR 170             |              |
|------------------------------|--------|----------------------|--------------|
| LED CHIP                     |        | 3030                 |              |
| RATED POWER                  | [w]    | 9,16                 | 14,4         |
| COLOR TEMPERATURE            | [°K]   | 6500                 | 4000<br>6500 |
| IP RATING                    |        | IP20                 |              |
| VOLTAGE                      | [V]    | 12                   | 24           |
| BEAM ANGLE                   | [°]    | 170                  |              |
| LIGHT EFFICIENCY             | [lm/w] | 130                  |              |
| DIMENSIONS                   | [mm]   | 30x21x7              |              |
| LED SPACING                  | [mm]   | 172                  |              |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 10                   |              |
| WARRANTY                     | [year] | 3                    |              |
| APPLICATION                  |        | light box from 50 mm |              |

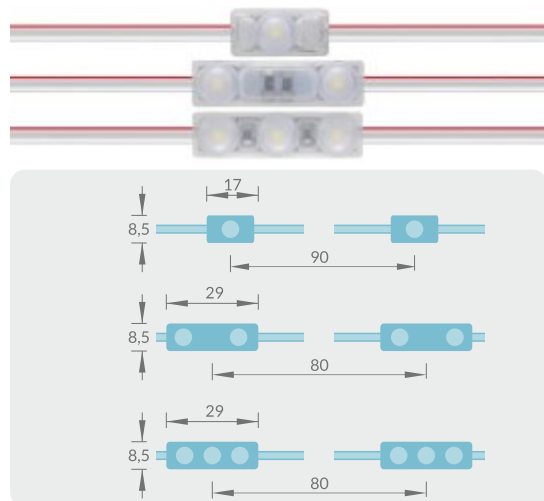


## MINI LENS 140

Compact lens modules

IP 65 140° 5 YEAR 3000K 8000K

| TYPE                         |        | MINI 140                         |            |            |
|------------------------------|--------|----------------------------------|------------|------------|
| LED CHIP                     |        | 2835                             |            |            |
| RATED POWER                  | [w]    | 0,36                             | 0,50       | 0,60       |
| COLOR TEMPERATURE            | [°K]   | 3000                             |            |            |
|                              |        | 4000                             |            |            |
|                              |        | 6500                             |            |            |
|                              |        | 8000                             |            |            |
| IP RATING                    |        | IP65                             |            |            |
| VOLTAGE                      | [V]    | 12                               |            |            |
| BEAM ANGLE                   | [°]    | 140                              |            |            |
| LIGHT EFFICIENCY             | [lm/w] | 100                              |            |            |
| DIMENSIONS                   | [mm]   | 17X8,5X8,5                       | 29X8,5X8,5 | 29X8,5X8,5 |
| LED SPACING                  | [mm]   | 90                               | 80         | 80         |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 20                               |            |            |
| WARRANTY                     | [year] | 5                                |            |            |
| APPLICATION                  |        | lowercase letters from 40-120 mm |            |            |



## MINI LENS 170

IP 67 130x170° 5 YEAR 4000K 5000K 7000K

## MINI LENS 170 V2

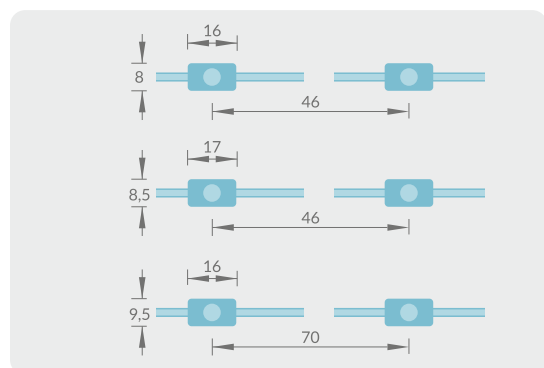
IP 67 170° 5 YEAR 4500K 6500K

## MINI 170 HE

IP 65 170° 5 YEAR 7000K

Compact lens modules

| TYPE                         |        | MINI 170                         | MINI 170 V2                      | MINI 170 HE                      |
|------------------------------|--------|----------------------------------|----------------------------------|----------------------------------|
| LED CHIP                     |        | 2835                             | 2835                             | 2835                             |
| RATED POWER                  | [w]    | 0,36                             | 0,36                             | 0,24                             |
| COLOR TEMPERATURE            | [°K]   | 4000                             | 4500                             | 7000                             |
|                              |        | 5000                             | 6500                             |                                  |
|                              |        | 7000                             |                                  |                                  |
|                              |        | Red, Green, Blue                 | Red, Green, Blue                 |                                  |
| IP RATING                    |        | IP67                             | IP67                             | IP65                             |
| VOLTAGE                      | [V]    | 12                               | 12                               | 12                               |
| BEAM ANGLE                   | [°]    | 130x170                          | 170                              | 170                              |
| LIGHT EFFICIENCY             | [lm/w] | 105                              | 120                              | 165                              |
| DIMENSIONS                   | [mm]   | 16X8,5X8                         | 17X8,5X8                         | 16X9,5X8                         |
| LED SPACING                  | [mm]   | 46                               | 46                               | 70                               |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 100                              | 100                              | 100                              |
| WARRANTY                     | [year] | 5                                | 5                                | 5                                |
| APPLICATION                  |        | lowercase letters from 40-120 mm | lowercase letters from 40-120 mm | lowercase letters from 40-120 mm |

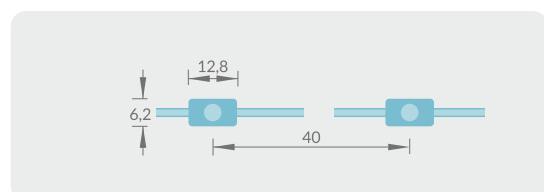


## MICRO LENS

IP 67 140° 5 YEAR 4000K 7100K

Smallest lens modules

| TYPE                         |        | MICRO LENS                       |  |  |
|------------------------------|--------|----------------------------------|--|--|
| LED CHIP                     |        | 2835                             |  |  |
| RATED POWER                  | [w]    | 0,20                             |  |  |
| COLOR TEMPERATURE            | [°K]   | 4000                             |  |  |
|                              |        | 7100                             |  |  |
|                              |        | IP67                             |  |  |
|                              |        | 12                               |  |  |
| IP RATING                    |        | IP67                             |  |  |
| VOLTAGE                      | [V]    | 12                               |  |  |
| BEAM ANGLE                   | [°]    | 140                              |  |  |
| LIGHT EFFICIENCY             | [lm/w] | 165                              |  |  |
| DIMENSIONS                   | [mm]   | 12,8X6,2X6,8                     |  |  |
| LED SPACING                  | [mm]   | 40                               |  |  |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 100                              |  |  |
| WARRANTY                     | [year] | 5                                |  |  |
| APPLICATION                  |        | lowercase letters from 30-100 mm |  |  |



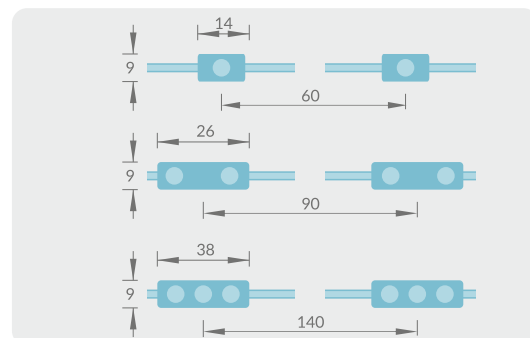
# MINI LED MODULES

## MINI 183\*142

Innovative lens modules



| TYPE                         |        | MINI 183*142                    |        |        |
|------------------------------|--------|---------------------------------|--------|--------|
| LED CHIP                     |        | 2835                            |        |        |
| RATED POWER                  | [w]    | 0,24                            | 0,48   | 0,72   |
| COLOR TEMPERATURE            | [°K]   | 3000                            |        |        |
|                              |        | 4000                            |        |        |
|                              |        | 6500                            |        |        |
|                              |        | 8000                            |        |        |
|                              |        | Red, Green, Blue                |        |        |
| IP RATING                    |        | IP67                            |        |        |
| VOLTAGE                      | [V]    | 12                              |        |        |
| BEAM ANGLE                   | [°]    | 142x183                         |        |        |
| LIGHT EFFICIENCY             | [lm/w] | 96                              |        |        |
| DIMENSIONS                   | [mm]   | 14X9X9                          | 26X9X9 | 38X9X9 |
| LED SPACING                  | [mm]   | 60                              | 90     | 140    |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 40                              |        |        |
| WARRANTY                     | [year] | 5                               |        |        |
| APPLICATION                  |        | lowercase letters from 20-60 mm |        |        |

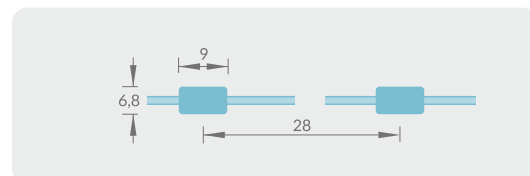


## MICRO PRO

For acrylic block letters



| TYPE                         |        | MICRO PRO                     |      |
|------------------------------|--------|-------------------------------|------|
| LED CHIP                     |        | 2835                          |      |
| RATED POWER                  | [w]    | 0,10                          | 0,20 |
| COLOR TEMPERATURE            | [°K]   | 6500                          | 4000 |
|                              |        | 8000                          | 6500 |
| IP RATING                    |        | IP67                          |      |
| VOLTAGE                      | [V]    | 12                            |      |
| BEAM ANGLE                   | [°]    | 120                           |      |
| LIGHT EFFICIENCY             | [lm/w] | 100                           |      |
| DIMENSIONS                   | [mm]   | 9X6,8X4,8                     |      |
| LED SPACING                  | [mm]   | 28                            |      |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 100                           |      |
| WARRANTY                     | [year] | 4                             |      |
| APPLICATION                  |        | lowercase letters up to 30 mm |      |

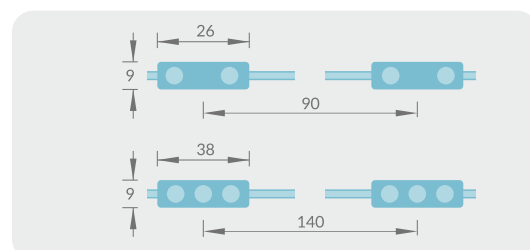


## MINI Z

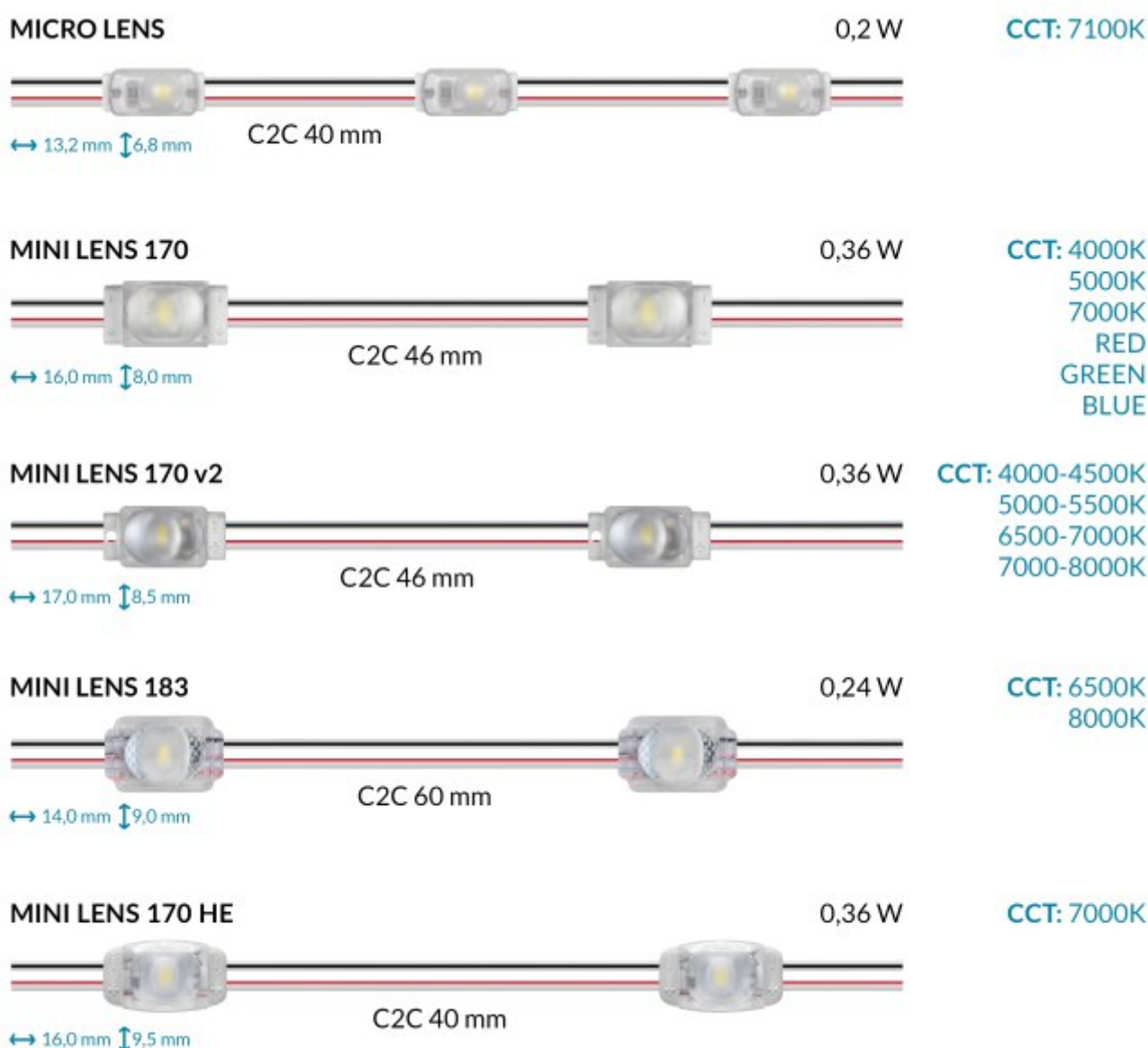
Compact lens modules



| TYPE                         | MINI Z |                                 |        |
|------------------------------|--------|---------------------------------|--------|
| LED CHIP                     |        | 4014                            |        |
| RATED POWER                  | [w]    | 0,385                           | 0,40   |
| COLOR TEMPERATURE            | [°K]   | 4000                            |        |
|                              |        | 8000                            |        |
|                              |        | IP66                            |        |
|                              |        | 12                              |        |
| IP RATING                    |        | 120                             |        |
| VOLTAGE                      | [V]    | 12                              |        |
| BEAM ANGLE                   | [°]    | 120                             |        |
| LIGHT EFFICIENCY             | [lm/w] | 104                             | 138    |
| DIMENSIONS                   | [mm]   | 32X5X3                          | 40X5X3 |
| LED SPACING                  | [mm]   | 77                              | 70     |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 50                              |        |
| WARRANTY                     | [year] | 3                               |        |
| APPLICATION                  |        | lowercase letters from 40-70 mm |        |



## MINI LED MODULES - comparison

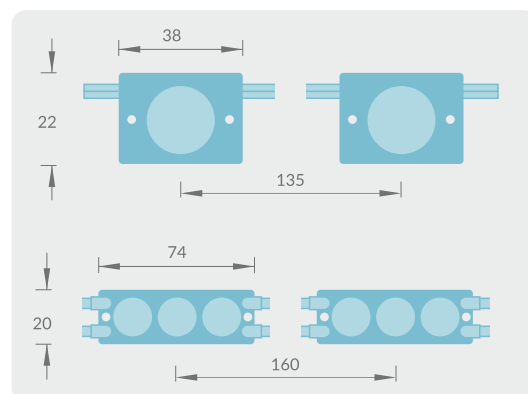
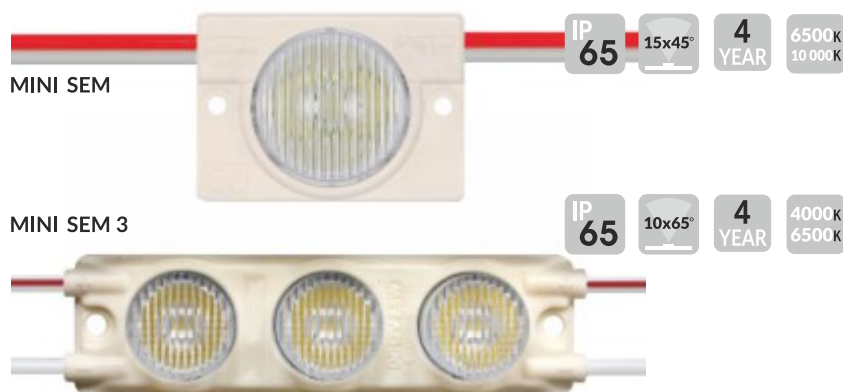


# EDGE LIGHTING

## MINI SEM and MINI SEM 3 Modules

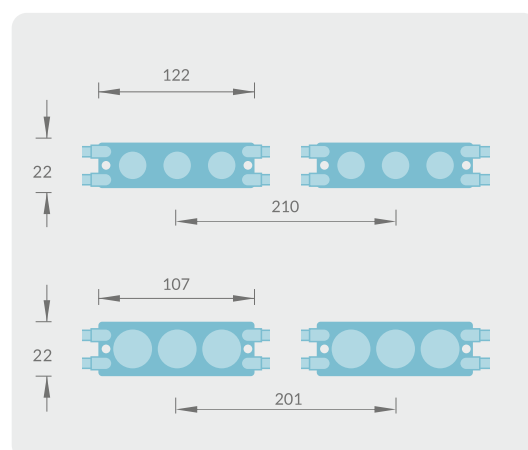
LED modules designed for edge lighting of shallow lightboxes

- dedicated aluminum extrusions for lightbox construction are also available
- just place the modules on two side walls of the lightbox
- unrestricted cutting of chains



## SEMAFOR 3

HIGH POWER EDGE MODULE 3,6W / 24V



Compact sized and equipped with special optics system, MINISEM modules are ideal solution for relatively shallow lightboxes with both rigid acrylic and textil faces.

High level of luminous flux and properly fitted diffusion lenses in assymetric layout, ensures uniform backlight of whole face of the lightbox, although the modules are placed only on its side walls.

AMC System also offers dedicated aluminum extrusions and fasteners allowing construction of aesthetic and professional looking lightboxes on your own.

MINISEM modules fitted inside the system extrusion are shown at the picture on the right.



| TYPE                         |        | MINI SEM                                    | MINI SEM 3                                 | SEMAFOR 3 3W/12V                            | SEMAFOR 3 3,6W/24V                          |
|------------------------------|--------|---------------------------------------------|--------------------------------------------|---------------------------------------------|---------------------------------------------|
| LED CHIP                     |        | 3030                                        | 2835                                       | 3030                                        | 3030                                        |
| RATED POWER                  | [w]    | 1,2                                         | 2,5                                        | 3                                           | 3,6                                         |
| COLOR TEMPERATURE            | [°K]   | 6500<br>10 000                              | 4000<br>6500                               | 6500                                        | 6000                                        |
| IP RATING                    |        | IP65                                        | IP65                                       | IP65                                        | IP65                                        |
| VOLTAGE                      | [V]    | 12                                          | 12                                         | 12                                          | 24                                          |
| BEAM ANGLE                   | [°]    | 15x45                                       | 10x65                                      | 10x50                                       | 10x60                                       |
| LIGHT EFFICIENCY             | [lm/w] | 100                                         | 96                                         | 100                                         | 110                                         |
| DIMENSIONS                   | [mm]   | 38x22x12                                    | 74x20x12                                   | 107x22x12                                   | 122x22x12                                   |
| LED SPACING                  | [mm]   | 125                                         | 160                                        | 201                                         | 210                                         |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 20                                          | 30                                         | 20                                          | 10                                          |
| WARRANTY                     | [year] | 4                                           | 4                                          | 5                                           | 3                                           |
| APPLICATION                  |        | light box up to 800 mm high/<br>100 mm wide | light box up to 800 mm high/<br>80 mm wide | light box up to 1800 mm high/<br>80 mm wide | light box up to 1800 mm high/<br>80 mm wide |

## SEMAFOR LED Modules

For edge lighting of lightboxes 100-200mm

- for single and double sided lightboxes,
- just place the modules on side walls of your lightbox,
- flexible cutting possibilities, even every single module.

SEMAFOR 4,5W



IP 65 15x45° 5 YEAR 3000K to 8000K

SEMAFOR 3W

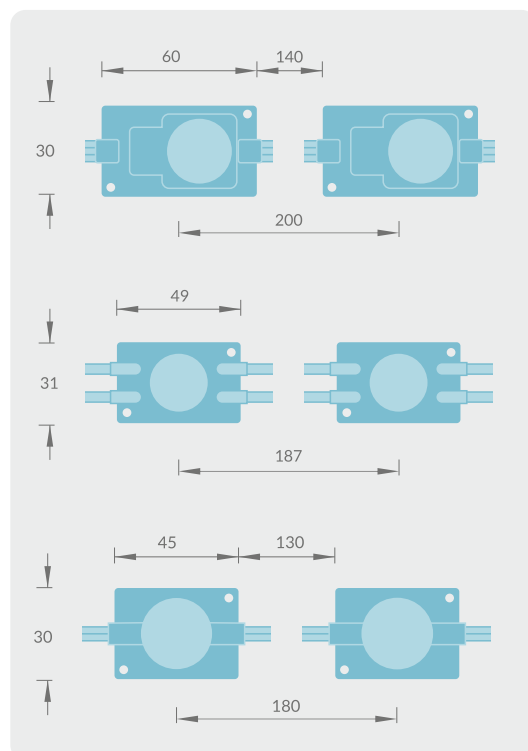


IP 65 6x45° 4 YEAR 6500K

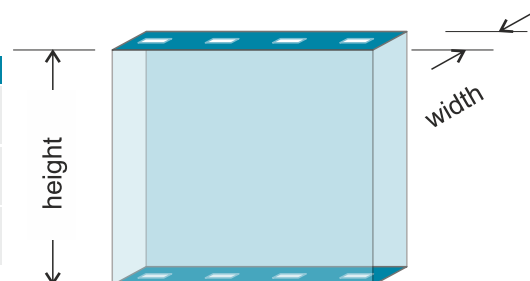
SEMAFOR II



IP 65 15x45° 4 YEAR 4000K 6500K



| dimensions lightbox                                    | SEMAFOR 2W    | SEMAFOR 3W    | SEMAFOR 4,5W  |
|--------------------------------------------------------|---------------|---------------|---------------|
| <b>height</b><br>(distance between walls with modules) | up to 1000 mm | up to 1500 mm | up to 2500 mm |
| <b>width</b><br>(distance between lightbox faces)      | 50 - 180 mm   | 100 - 200 mm  | 100-200 mm    |
| <b>length</b><br>(between modules)                     | 60 - 130 mm   | 20 - 200 mm   | 80-200 mm     |



| TYPE                         |        | SEMAFOR II                               | SEMAFOR 3W                               | SEMAFOR 4,5W                             |
|------------------------------|--------|------------------------------------------|------------------------------------------|------------------------------------------|
| LED CHIP                     |        | 3030                                     | 3535                                     | 3535                                     |
| RATED POWER                  | [w]    | 2                                        | 3                                        | 4,5                                      |
| COLOR TEMPERATURE            | [°K]   | 4000                                     | 6500                                     | 6500                                     |
| IP RATING                    |        | IP65                                     | IP65                                     | IP65                                     |
| VOLTAGE                      | [V]    | 12                                       | 12                                       | 12                                       |
| BEAM ANGLE                   | [°]    | 15x45                                    | 6x45                                     | 15x45                                    |
| LIGHT EFFICIENCY             | [lm/w] | 80                                       | 70                                       | 92                                       |
| DIMENSIONS                   | [mm]   | 45x30x15                                 | 43x36x15                                 | 64x30x15                                 |
| LED SPACING                  | [mm]   | 180                                      | 187                                      | 200                                      |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 20                                       | 20                                       | 10                                       |
| WARRANTY                     | [year] | 4                                        | 4                                        | 5                                        |
| APPLICATION                  |        | light box up to 1000 mm high/100 mm wide | light box up to 1500 mm high/100 mm wide | light box up to 2500 mm high/120 mm wide |

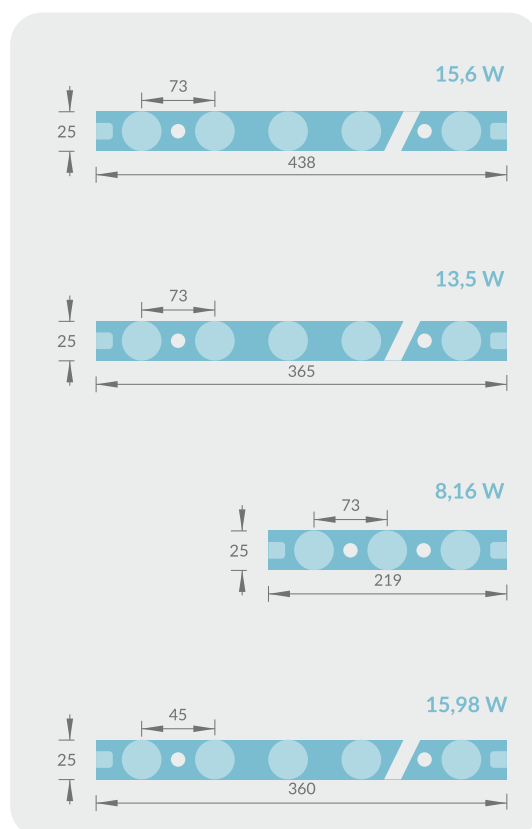
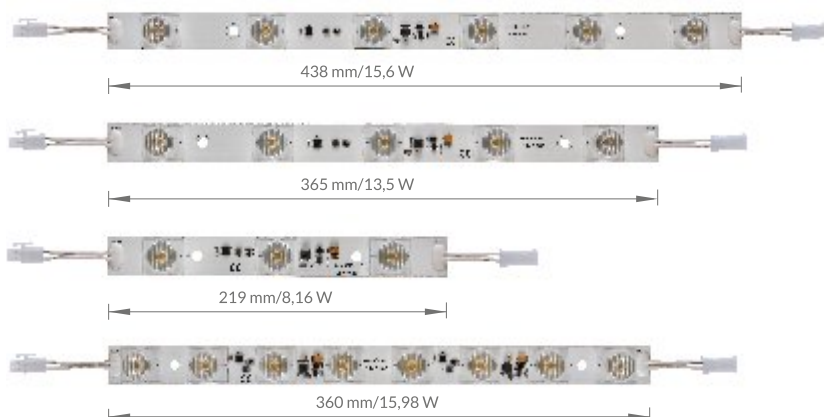
# EDGE LIGHTING

## SEMAFOR XL V2 LED boards

IP 60 7x30° 3 YEAR 6500K

Semafor XL modules are designed for edge light of single and double sided lightboxes up to 2.5m height

- 24V DC voltage
- just place the boards on walls of a lightbox
- four lengths available



| TYPE                         |        | SEMAFOR XL V2 |           |           |           |  |
|------------------------------|--------|---------------|-----------|-----------|-----------|--|
| LED CHIP                     |        | 3535          |           |           |           |  |
| RATED POWER                  | [w]    | 8,16          | 13,5      | 15,6      | 15,98     |  |
| COLOR TEMPERATURE            | [°K]   | 6500          |           |           |           |  |
| IP RATING                    |        | IP60          |           |           |           |  |
| VOLTAGE                      | [V]    | 24            |           |           |           |  |
| BEAM ANGLE                   | [°]    | 7x30          |           |           |           |  |
| LIGHT EFFICIENCY             | [lm/w] | 120           |           |           |           |  |
| DIMENSIONS                   | [mm]   | 219x25x15     | 365x25x15 | 438x25x15 | 360x25x15 |  |
| LED SPACING                  | [mm]   | 73            | 73        | 73        | 45        |  |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 10            | 6         | 5         | 4         |  |
| WARRANTY                     | [year] | 3             |           |           |           |  |
| APPLICATION                  |        |               |           |           |           |  |



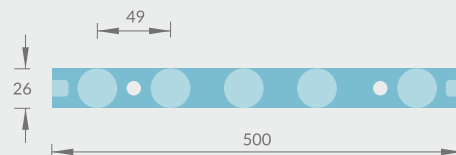
## SEMAFOR XL LED boards

IP 65 20x40° 4 YEAR 6000K

Semafor XL modules are designed for edge light of single and double sided lightboxes up to 2.5m height



Semafor XL light bars are equipped with rigid lenses made of special formed plastic. They ensure proper light distribution, even at a quite large distance between edges of the lightbox.

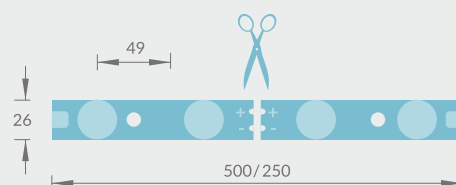


For easy mounting and forcing uniform spaces between light points, the Semafor XL modules are connected with dedicated fast connectors.

No special tools or welding is required for mounting, connecting or servicing of the modules.

| TYPE                         |        | SEMAFOR XL - POSSIBLE TO DIVIDE INTO 2 x 250mm                                         |
|------------------------------|--------|----------------------------------------------------------------------------------------|
| LED CHIP                     |        | 3030                                                                                   |
| RATED POWER                  | [w]    | 20                                                                                     |
| COLOR TEMPERATURE            | [°K]   | 6500                                                                                   |
| IP RATING                    |        | IP65                                                                                   |
| VOLTAGE                      | [V]    | 24                                                                                     |
| BEAM ANGLE                   | [°]    | 20x40                                                                                  |
| LIGHT EFFICIENCY             | [lm/w] | 82                                                                                     |
| DIMENSIONS                   | [mm]   | 500x26x18                                                                              |
| LED SPACING                  | [mm]   | 50                                                                                     |
| MAX QUANTITY IN SINGLE CHAIN | [pcs]  | 5                                                                                      |
| WARRANTY                     | [year] | 4                                                                                      |
| APPLICATION                  |        | light box up to 2500 mm high/120 mm wide or<br>light box up to 1000 mm high/46 mm wide |

CAN BE DIVIDED INTO 2 SECTIONS OF 250 MM





# ACCESSORIES AND ADDITIONAL PRODUCTS

## LED light strips

High quality LED tapes for various applications

| LED TAPES                    | power / vlotage | luminous flux  | color temperature   | IP    | dimensions        | LED packages     |
|------------------------------|-----------------|----------------|---------------------|-------|-------------------|------------------|
| LED TAPE                     | 30 W / 12 VDC   | 20-22 lm / LED | 6000-6500 K, 4000 K | IP 20 | Roll 5 m          | 300 x SMD2835    |
| Coated LED TAPE              | 30 W / 12 VDC   | 20-22 lm / LED | 6000-6500 K, 4000 K | IP 66 | Roll 5 m          | 300 x SMD2835    |
| S-type LED TAPE - elastic    | 24 W / 12 VDC   | 15-16 lm / LED | 6000-6500 K, 4000 K | IP 20 | Roll 5 m          | 300 x SMD2835    |
| S-type LED TAPE - coated     | 24 W / 12 VDC   | 15-16 lm / LED | 6000-6500 K, 4000 K | IP 66 | Roll 5 m          | 300 x SMD2835    |
| S-type LED TAPE CW - elastic | 24 W / 12 VDC   | 15-16 lm / LED | 9000-12000 K        | IP 20 | Roll 5 m          | 300 x SMD2835    |
| RGB LED TAPE                 | 72 W / 24 VDC   | 15-16 lm / LED | RGB                 | IP 20 | Roll 5 m          | 300 x SMD5050    |
| LED BAR                      | 10 W / 12 VDC   | 11 lm / LED    | 6500 K              | IP 20 | 500/1000x4x1,6 mm | 84/168 x SMD2835 |
| LED BAR                      | 20 W / 12 VDC   | 11 lm / LED    | 6500 K              | IP 20 | 500/1000x4x1,6 mm | 60/120 x SMD2835 |

## LED Controllers

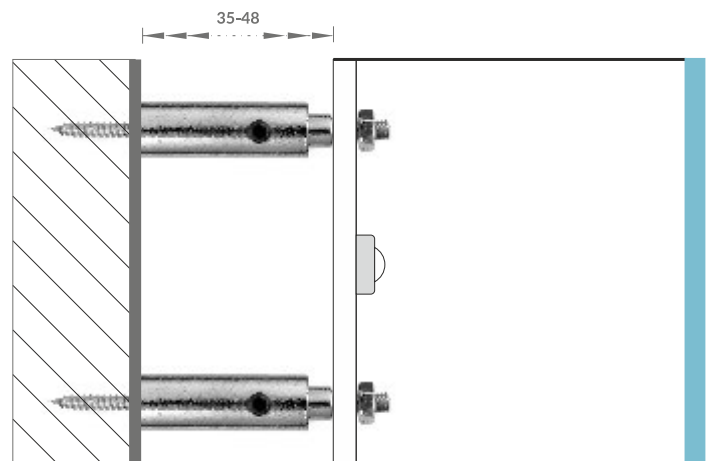
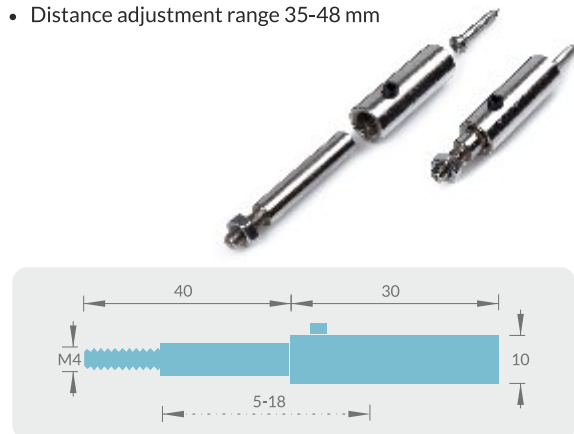
Controllers, dimmers, flashers and smart devices



| type                               | output power | voltage | RGB driver                                                                              |
|------------------------------------|--------------|---------|-----------------------------------------------------------------------------------------|
| Mini RGB controller 1x6A           | 72W          | 12-24V  | 1 channel, 20 operation modes, RF remote                                                |
| RGB controller 3x6.6A              | 240W         | 12-24V  | 3 channels, 14 operation modes, RF remote                                               |
| RGB controller 3x8A                | 288W         | 5-24V   | 3 channels, RJ45 slots, 18 operation mode, RF remote                                    |
| Digital RGBW controller            | 4096 pixels  | 12-24V  | 2 digital channels, RJ45 slot, 133 operation modes, RF remote                           |
| 2 in 1 RGB controller +W 3x5A/4*4A | 180/192W     | 5-24V   | 3/4 channels, 20 operation modes                                                        |
| RGB controller 5V 3x4A             | 60W          | 5V      | 33 channels, 34 operation modes, RF remote                                              |
| RGB controller 4x8A                | 384W         | 12-24V  | 4 channels, 20 operation modes, RJ45 slots                                              |
| type                               | output power | voltage | Dimmer                                                                                  |
| Mini dimmer 1x6A                   | 72W          | 12-24V  | 1 channel, dimming and flashing modes, RF remote                                        |
| Mini dimmer 1x8A                   | 96W          | 12-24V  | 1 channel, dimming mode, RF remote                                                      |
| Dimmer 1x25A                       | 300W         | 12-24V  | 1 channel, RJ 45 slots, dimming and flashing modes, RF remote                           |
| Dimmer 1x25A                       | 125W         | 5V      | 1 channel, RJ 45 slots, dimming and flashing modes, RF remote                           |
| Dimmer 3x10A                       | 360W         | 12-24V  | 3 channels, RJ 45 slots, dimming and flashing modes, RF remote                          |
| Dimmer T4 2x15A                    | 360W         | 12-24V  | 2 channels, lighting rheostat, dimming and temperature color change modes, 4 work zones |

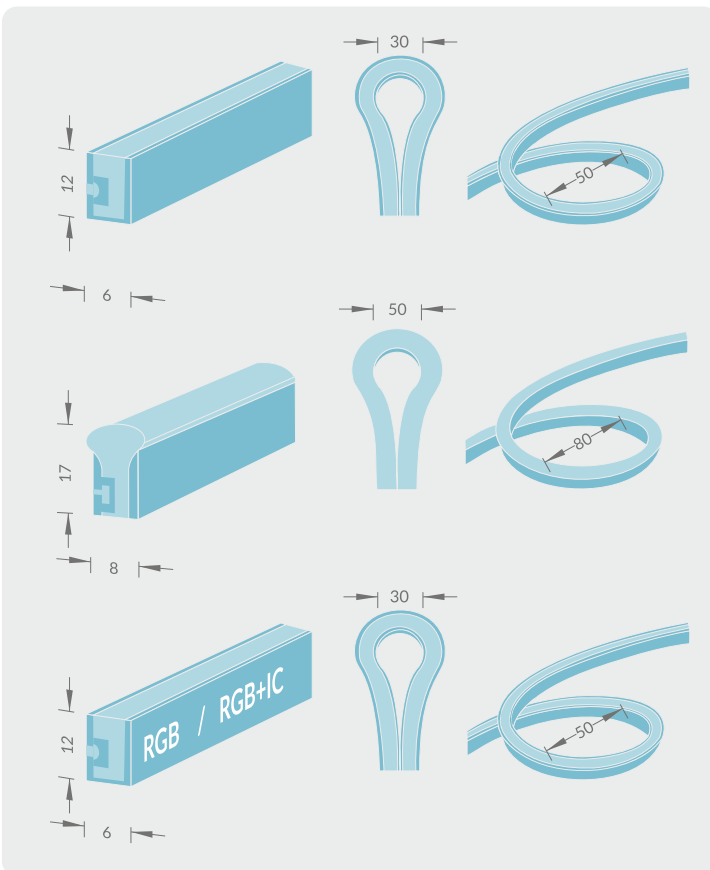
## Handles for letters

- Distance adjustment range 35-48 mm



LED NEON made of branded silicone "Dow Corning"

24V UV 3 YEAR IP 65



## ACCESSORIES

|           |         |               |                  |
|-----------|---------|---------------|------------------|
|           |         |               |                  |
| front cap | end cap | silicone glue | aluminium holder |

| type                  | MINI                                                  | SMALL     |
|-----------------------|-------------------------------------------------------|-----------|
| voltage               | 24V                                                   |           |
| rated power           | 9W/mb                                                 |           |
| luminous flux         | 6500K - 45lm/W, R - 25lm/W, G - 38lm/W, B - 11lm/W    |           |
| color temperature     | 6500K, R, G, B                                        |           |
| operating temperature | -25°C ~ +60°C                                         |           |
| dimensions (mm)       | 6x12x5000                                             | 8x17x5000 |
| IP rating             | IP 65                                                 |           |
| beam angle            | 180°                                                  | 270°      |
| LED lifespan          | 50 000h                                               |           |
| light source          | SMD2835                                               |           |
| warranty              | 3 year                                                |           |
| other data            | 120 chips/m , cut every 6 chips (50mm), UV resistance |           |

White 3K, 4K, 6,5K, cuts every 1 cm, colors every 5 cm

# KONTUR LED System

## KONTUR LED System

Linear light system enclosed in durable PC fittings.

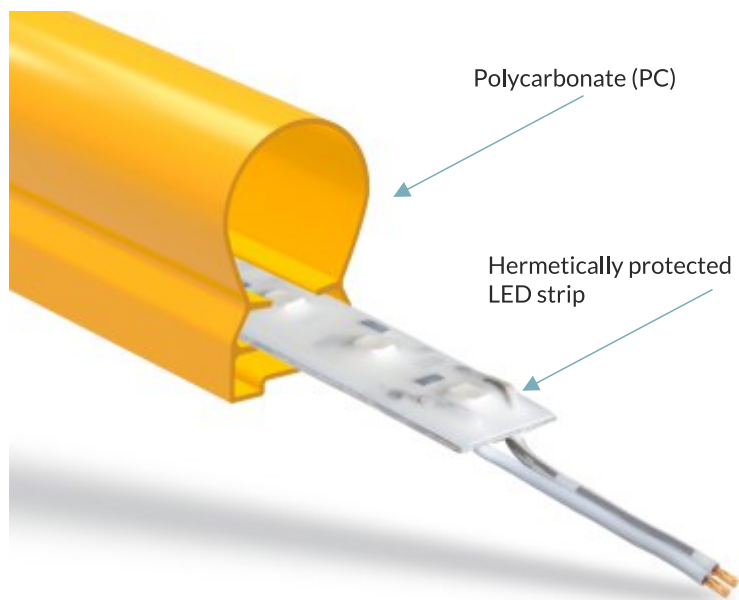
- successor of neon linear lights, i.e. petrol station fittings
- 9 colors of fittings - end caps, mountings, angle and straight couplings available.
- delivered as kits - 3m fitting and 6 LED BOARDS

18W

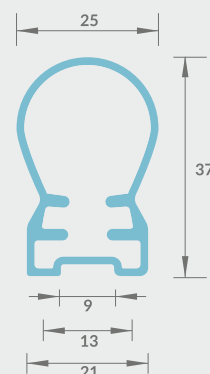
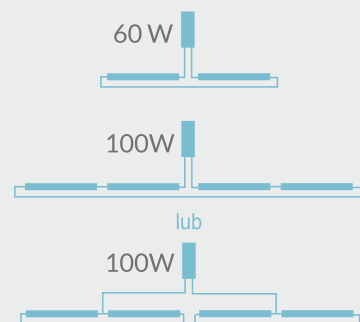
120°

3  
YEAR

IP  
67



The safest solution  
for connecting LED tubes.



rigid and durable LED BOARDS (cut every 25 mm)

### ACCESSORIES

|       |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|       |  |  |  |  |  |  |  |  |  |
| type  | holder                                                                              | straight connector                                                                  | angle connector                                                                     | end cap                                                                             |                                                                                     |                                                                                       |                                                                                       |                                                                                       |                                                                                       |
| color | transparent                                                                         | transparent                                                                         | transparent                                                                         | transparent                                                                         | semi-trans.                                                                         | red                                                                                   | yellow                                                                                | orange                                                                                | green                                                                                 |

| type/RAL                  | 3020                                       | 5015 | 7047        | 6018  | 6029 | 6033 | 2004   | 1003         |
|---------------------------|--------------------------------------------|------|-------------|-------|------|------|--------|--------------|
| voltage                   | 12V                                        |      |             |       |      |      |        |              |
| rated power               | 18W                                        |      |             |       |      |      |        |              |
| beam angle                | 120°                                       |      |             |       |      |      |        |              |
| IP rating                 | IP 67                                      |      |             |       |      |      |        |              |
| dimensions L x W x H (mm) | 3000x25x36 (fitting), 498x14x2 (LED board) |      |             |       |      |      |        |              |
| operating temperature     | -40°C ~ +60 °C                             |      |             |       |      |      |        |              |
| color temperature         | red                                        | blue | white 6500K | green |      |      | orange | yellow 4200K |

## SLIM LED power supplies

slim

CE

**MW**  
MEAN WELL

CE

**SAIF**

CE



| Series           | Rated power/current at 12V | Rated power/current at 24V | Dimensions (mm)   | IP       | PFC | Warranty |
|------------------|----------------------------|----------------------------|-------------------|----------|-----|----------|
| SELF SLIM-30     | 30W/2,50A                  | -                          | 246 × 30 × 16     | IP 20    | Yes | 5 year   |
| SELF SLIM-75     | 75W/6,25A                  | -                          | 298 × 29,8 × 16,5 | IP 20    | Yes | 5 year   |
| SELF SLIM-100    | 100W/8,33A                 | -                          | 298 × 29,8 × 16,5 | IP 20    | Yes | 5 year   |
| Mean WELL SLD-50 | 50W/4,2A                   | -                          | 280 × 30 × 16,8   | IP 20    | Yes | 4 year   |
| Mean WELL SLD-80 | 79,2W/6,6A                 | -                          | 320 × 30 × 16,8   | IP 20    | Yes | 4 year   |
| SLIM LMN -30     | 30W/2,5A                   | -                          | 246 × 30 × 16,5   | IP 20    | Yes | 5 year   |
| SLIM LMN -100    | 100W/8,33A                 | -                          | 320 × 30 × 18     | IP 20    | Yes | 5 year   |
| SLIM LMN -150    | 150W/12,5A                 | -                          | 320 × 30 × 21,5   | IP 20    | Yes | 5 year   |
| SLIM LMW -100    | 100W/8,3A                  | -                          | 309 × 35 × 20     | IP 67    | Yes | 5 year   |
| SLIM LMW -150    | 150W/12,5A                 | 150W/6,25A                 | 309 × 35 × 23     | IP 20/67 | Yes | 5 year   |
| SLIM LMW -200    | 200W/16,7A                 | 200W/8,3                   | 256 × 45 × 23     | IP 67    | Yes | 5 year   |

# LED POWER SUPPLIES

## MEAN WELL LED power supplies



| Series  | Rated power/current at 12V | Rated power/current at 24V | Dimensions    | IP       | PFC | Warranty |
|---------|----------------------------|----------------------------|---------------|----------|-----|----------|
| APV-8   | 8W/0.67A                   | 8W/0.3A                    | 60x30x23.5    | IP 42    | No  | 3 year   |
| APV-12  | 12W/1A                     | 12W/0.5A                   | 77x40x29      | IP 42    | No  | 3 year   |
| APV-25  | 25W/2.1A                   | 25W/1.05A                  | 84x57x29.5    | IP 42    | No  | 3 year   |
| LPH-18  | 18W/1.5A                   | 18W/0.75A                  | 140x30x22     | IP 67    | No  | 3 year   |
| LPV-20  | 20W/1.67A                  | 20W/0.84A                  | 118x35x26     | IP 67    | No  | 3 year   |
| LPV-35  | 36W/3A                     | 36W/1.5A                   | 148x40x30     | IP 67    | No  | 3 year   |
| LPV-60  | 60W/5A                     | 60W/2.5A                   | 162.5x42.5x32 | IP 67    | No  | 3 year   |
| LPV-100 | 100W/8.5A                  | 100W/4.2A                  | 190x52x37     | IP 67    | No  | 3 year   |
| LPV-150 | 120W/10A                   | 151.2W/6.3A                | 191x63x37.5   | IP 67    | No  | 3 year   |
| ELG-75  | 60W/5A                     | 75.6W/3.15A                | 180x63x35.5   | IP 65/67 | Yes | 5 year   |
| ELG-150 | 132W/11A                   | 150W/6.25A                 | 219x63x35.5   | IP 65    | Yes | 5 year   |
| ELG-200 | 192W/16A                   | 201.6/8.4A                 | 244x71x37.5   | IP 65/67 | Yes | 5 year   |





3  
YEAR



3  
YEAR



3  
YEAR



PFC 7  
YEAR



PFC 7  
YEAR



PFC 7  
YEAR



PFC 7  
YEAR



PFC 3  
YEAR

| Series   | Rated power/current at 12V | Rated power/current at 24V | Dimensions   | IP    | PFC | Warranty |
|----------|----------------------------|----------------------------|--------------|-------|-----|----------|
| LRS-35   | 36W/3A                     | 36W/1.5A                   | 99x82x30     | IP 20 | No  | 3 year   |
| LRS-50   | 50.4W/4.2A                 | 51.8/2.2A                  | 99x82x30     | IP 20 | No  | 3 year   |
| LRS-75   | 72W/6A                     | 76.8W/3.2A                 | 99x97x30     | IP 20 | No  | 3 year   |
| LRS-100  | 102W/8.5A                  | 108W/4.5A                  | 129x97x30    | IP 20 | No  | 3 year   |
| LRS-150  | 150W/12.5A                 | 156W/6.5A                  | 159x97x30    | IP 20 | No  | 3 year   |
| HLG-150  | 150W/12.5A                 | 151.2/6.3A                 | 228x68x38.8  | IP 67 | Yes | 7 year   |
| HLG-240  | 192W/16A                   | 240W/12A                   | 244x68x38.8  | IP 67 | Yes | 7 year   |
| HLG-320  | 264W/22A                   | 320.1W/13.34A              | 252x90x43    | IP 67 | Yes | 7 year   |
| HLG-600  | 480W/40A                   | 600W/25A                   | 280x144x48.5 | IP 67 | Yes | 7 year   |
| ERPF-400 | 360W/30A                   | 400W/16.7A                 | 220x130x48   | IP -  | Yes | 3 year   |

# LED POWER SUPPLIES



PFC 5 YEAR



PFC 5 YEAR



PFC 5 YEAR



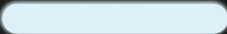
PFC 5 YEAR

| Series    | Rated power/current at 12V | Rated power/current at 24V | Dimensions (mm) | IP    | PFC | Warranty |
|-----------|----------------------------|----------------------------|-----------------|-------|-----|----------|
| XLG-75    | 60W/5A                     | 74,4W/3,1A                 | 140 x 63 x 32   | IP 67 | Yes | 5 year   |
| XLG-100   | 96W/8A                     | 96W/4A                     | 140 x 63 x 32   | IP 67 | Yes | 5 year   |
| XLG-150   | 150W/12,5A                 | 150W/6,25A                 | 180 x 63 x 35,5 | IP 67 | Yes | 5 year   |
| XLG-200   | 192W/16A                   | 199,2W/8,3A                | 199 x 63 x 35,5 | IP 67 | Yes | 5 year   |
| XLG-320 V | 216W/18A                   | 312W/13A                   | 246 x 77 x 39,5 | IP 67 | Yes | 5 year   |



## SZKŁO

### GLASS FOR NEON PRODUCTION

|                                                                                     |                                    |                                                                                      |                             |
|-------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------|-----------------------------|
|    | HT 20<br>15000 K                   |    | HD 51<br>Bright green       |
|    | PT 20<br>Bright super white 8000 K |    | HV 51<br>Multi green        |
|    | HT 16<br>Tri-base-white 8000 K     |    | PT 52<br>Fresh green        |
|    | PT 21<br>Snow white 6500 K         |    | PT 53<br>Aquamarine         |
|    | HC 14<br>Standard white            |    | HT 72<br>Ocean blue         |
|  | HT 18<br>4500K                     |  | HT 71<br>Tri-base-blue      |
|  | HT 13<br>3500K                     |  | HD 71<br>Coated blue        |
|  | HT 19<br>3000 K                    |  | HD 72<br>Coated deep blue   |
|  | HT 17<br>2700K                     |  | HV 71<br>Multi blue         |
|  | HT 15<br>2400 K                    |  | PT 81<br>Dip purple         |
|  | HT 42<br>Bright yellow             |  | HV 81<br>Multi-violet       |
|  | HD 32<br>Coated grass yellow       |  | HT 82<br>Purple red         |
|  | HD 41<br>Gold yellow               |  | HT 22<br>Tri-base-peach red |
|  | HV 41<br>Multi-yellow              |  | HT 21<br>Tri-base-red       |
|  | PT 54<br>Tri-base-green            |  | HD 42<br>Orange             |
|  | HC 51<br>Standard green            |  | HV 42<br>Multi orange       |
|  | HV 52<br>Multi light green         |  | HV 23<br>Multi red          |
|  | MG                                 |  | HV 23 Ne                    |

# NEON ACCESSORIES

## ELECTRODES



## HIGH VOLTAGE SILICON CABLES

## TUBE HOLDERS

## SILICON CAPS

## TESTERS



## CE CERTIFIED ELECTRONIC POWER SUPPLIES FOR NEON LIGHTS WITH DIMMER POWER CABLE WITH A SWITCH



## BROLLO SIET HIGH VOLTAGE ELECTROMECHANICAL TRANSFORMERS FROM 1000 to 12000 V WITH WORKING CURRENT FROM 25 to 50 mA







# NOTES

A series of horizontal dotted lines for taking notes.

**amc**  
SYSTEM

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