

# **Product Specification**

# **Backlighting Injection Module**

#### **M23GX21A**



## **Application data**

Module number per Chain	20 pcs	
Max. module number per Chain	25 pcs	
Distance of modules (wire)	150 mm	
Ambient temperature ta	-25 ~ +50 °C	
Max. temperature on module tc	65 °C	
Storage temperature ts	-40 ~ +85 °C	
Risk group (EN 62471:2008)	1	
Certification list	CE/RoHS	

# **Areas of application**

- Signage and illuminated advertising.
- Best for 120~200mm depth light boxes and channel letters.
- Permanent outdoor use in enclosed light boxes or channel letters.

## **Product features**

- Chain of 20 LED modules with three LEDs each.
- High efficiency LED.
- High color consistency (MacAdam 4).
- Beam characteristic: 160°.
- Protection class of LED module: IP65.
- > Flexible chain, can be split between any module.
- Mounting with screw or premounted double-sided adhesive tape possible.
- Fully integrated heat sink.
- Nominal life-time up to 50,000 h (at tc 50°C).
- Module size: 44 x 41 x 7.3 mm.

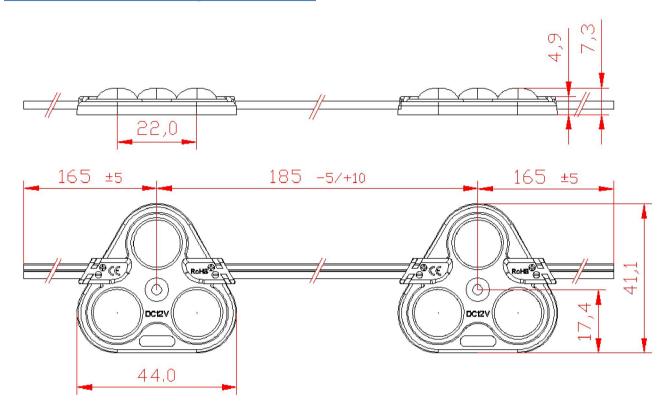
### **Technical data**

Product	Nominal	Color temperature	CRI <sub>12</sub>	Typ. Flux	Typ. Power	Luminous
Name	voltage₃	or Wavelength <sub>12</sub>		per module <sub>12</sub>	per module <sub>12</sub>	efficacy
M23GN21A	12.0 V	2700~3300 K	>70	130.0 lm	1.44 W	90.30 lm/W
M23GW21A	12.0 V	5500~6500 K	>70	135.0 lm	1.44 W	94.00 lm/W
M23GW21A	12.0 V	8000~12000 K	>70	135.0 lm	1.44 W	94.00 lm/W
M23GR21A	12.0 V	617~625 nm	Red	26.0 lm	1.20 W	21.67 lm/W

- ① Tolerance range for optical and electrical data: -15/+15 %.
- 2 All value @ ta=25°C.



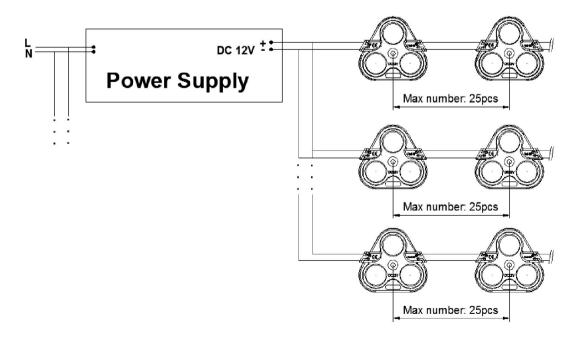
# **Product 2D drawing (unit: mm)**



# Wiring type

Cable	UL 1007 18AWG			
Color	red - white	white		
Function	+	-		

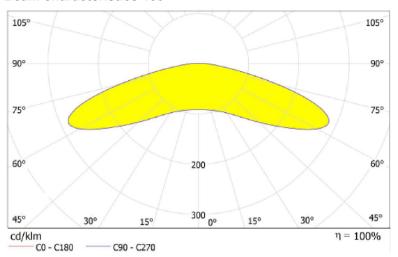
#### Wiring example:





#### **Light distribution**

#### Beam characteristics 160°



### **Noted:**

- The power cable should meet the actual maximum current and power.
- All the end point of wire should be treated with waterproof;
- Pay attention to the maximum number of connections, prohibit overloading.
- All the power supply must has the corresponding certification.
- Our company reserves the right of final interpretation.
- Subject to change without notice.