T +44 (0) 1942 671122 E sales@plusopto.co.uk W www.plusopto.co.uk
B13 Derwent Court William Way Moss Industrial Estate Leigh Lancashire WN7 3PT

Waterproof LED Module

PWM5316-2YL2835x-12v/IP65

Designed for channel letter illumination in signage applications, the PWM5316-2YL2835x module is suitable for 3-16cm depth letter illumination & provides bright and even illumination. Supplied in pre-wired chains of 20 pcs with 140mm link wires. Fixing is facilitated by 3M adhesive tape.

- **Compact module 53.3x15.8x7.5mm**
- **High performance 2835 LED emitter**
- **Low voltage operation 12vdc**
- **Low power consumption**
- **Waterproof housing rated IP67**
- **Wide 175° angle of emission**

ELECTRICAL SPECIFICATIONS	
Input Voltage	12vdc
Current Consumption	60mA/module
Power Consumption	1.0W/module

LIGHTING PERFORMANCE	
Efficiency	>140lm/W
Lifetime	>20,000 hours
Viewing Angle	175°

ENVIRONMENTAL	
Parameter	**Rating**
Operating Temp	-20°C to +60°C
Storage Temp	-25°C to +70°C

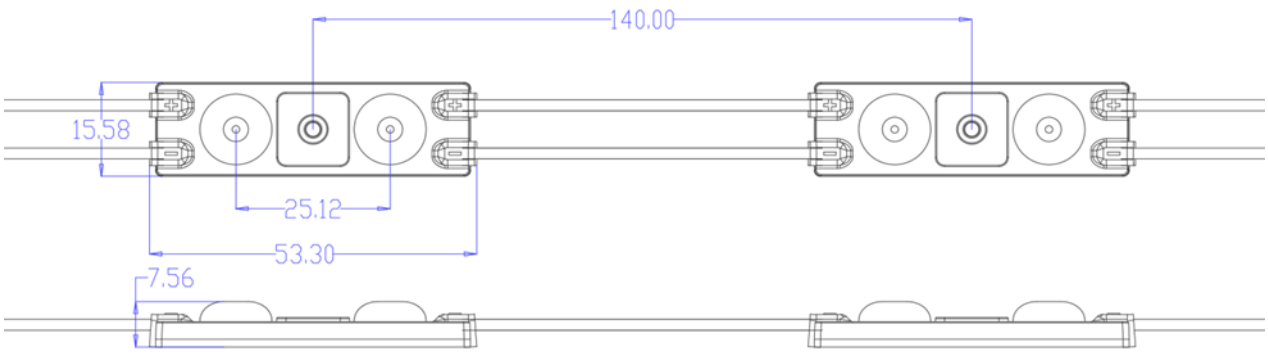
MECHANICAL DETAIL	
Dimensions	53.3x15.8x7.5mm
Weight	10.g/module
Environmental	IP65
Approvals	CE and UL

Specifications

PART NUMBER	COLOUR	CCT	VOLTAGE	CURRENT (module)	POWER (module)	LUMINOUS FLUX (module)
PWM5316-2YL2835PW-12v/IP65	**Pure White**	**6000~6500K**	**12vDC**	**83mA X20 =1.66A**	**1.0W x 20 = 20W**	**140 lm**
PWM5316-2YL2835NAW-12v/IP65	**Natural White**	**4000~4500K**				**140 lm**
PWM5316-2YL2835WW-12v/IP65	**Warm White**	**3000~3300K**				**140 lm**

Other colours are available on request

Module Dimensions



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Module Layout Density Guidelines:

Light box thickness（mm)	LED Spacing （mm）	Installation density (PCS/m²)	Surface illumination (lux)	Watts per square （W/m²）
40MM	Dx=90mm，Dy=65mm	170	8000-12000	170
50MM	Dx=100mm，Dy=85mm	117	5000-6000	117
60MM	Dx=120mm，Dy=100mm	84	3500-5000	84
80MM	Dx=140mm，Dy=120mm	59	2500-3500	59
100MM	Dx=140mm，Dy=140mm	51	2200-3000	51
120MM	Dx=140mm，Dy=160mm	44	1800-2300	44

Notes:
Use in conjunction with constant voltage 12v max LED drivers
These modules are designed for low voltage operation and must not be connected directly to ac mains supply
Luminous flux values quoted are typical. Please contact our office for the latest intensity yields
Specifications may be subject to change without notice