

Inps

features



- Ø25.4mm mounting
- Black anodised aluminium housing
- Sealed to IP67
- Internal reverse protection diode fitted as standard in all voltage models
- Colour diffused lens with a large LED indication
- AC versions available
- Pack Quantity = 1 Piece

specifications

Typical characteristics (Ta = 25° C)

Part Number	Colour	Voltage Vac/dc	Current DC (mA)	Luminous Intensity (mcd)	Wave Length (nm)	Operating Temp. (°C)	Storage Temp. (°C)	De-rating Graphs
672-290-22	Red	24 Vdc	19	68.2	627	-40 - +85	-40 - +85	A
672-291-22	Yellow	24 Vdc	19	68.2	590	-40 - +85	-40 - +85	A
672-292-22	Green	24 Vdc	19	110	565	-40 - +85	-40 - +85	F
672-290-75	Red	110	19	68.2	627	-40 - +85	-40 - +85	A
672-291-75	Yellow	110	19	68.2	590	-40 - +85	-40 - +85	A
672-292-75	Green	110	10	110	565	-40 - +85	-40 - +85	F
672-289-22	Red	24 Vdc	19	250	660	-40 - +85	-40 - +85	A
672-289-75	Red	110	10	250	660	-40 - +85	-40 - +85	A
672-294-75	Blue	110	10	300				-

- Products must be de-rated according to the de-rating information. Each de-rating graph refers to specific LEDs. Please refer to graphs on page 3.

- Luminous intensity is measured at 20mA on a discrete LED unless otherwise stated.

to order

to order please contact us on: t: +44 (0)1229 582 430 f: +44 (0)1229 585 155 e: sales@marl.co.uk w: www.leds.co.uk

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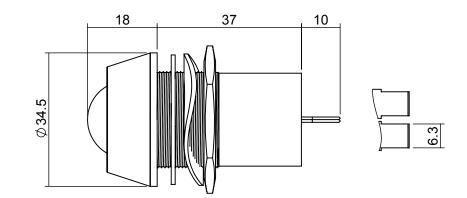


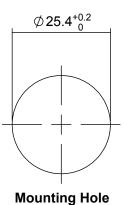
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pertormance pane

technical data







Dimensions in mm (typical) Not to scale Anode termination denoted by red indicator Mounting hole to be clean and burr free

housing material		push on connector	
Body	Black Anodised Aluminium	14.5	
Nut	Aluminium		
Panel Seal	Neoprene		
Fresnel Lens	Ероху	3.7	
Encapsulation	PC5430 Resin		
Lock Washer	Spring Steel	926-000-00 is brass rin plated with vinyl	
Termination	Tin Plated Brass	insulation - for use with 672 series lamps	
Header	-	Dimensions in mm (typical). Not to scale.	

technical characteristics

Series	Max. Power Dissipation	Max. Reverse Voltage	Panel Cutout	Nut Mounting Torque	Min. Mounting Centres	Max. Panel Thickness
672	2500	-	25.4	1.2	41.0	2.0 - 10.0
units	mW	Vdc	mm	Nm	mm	mm

* = Current Version ^ = Voltage Version

optional flying lead terminations

Order Code	Supply	Wire	Wire	No/Diameter	Diameter	Comments
Suffix	Voltage	Colour	Length	of Conductor	Insulation	
19	DC products	Red-anode/ Black-cathode	1000mm	-	-	Customised lengths available

to order

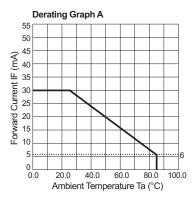
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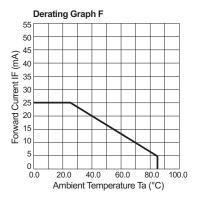
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de-rating information







also available

Part numbers also available in the 672 series:

Part	Calaura	Voltage		
Number	Colour	Vopr		
672-289-21	Red	12 Vdc		
672-289-76	Red	230 Vac 50 Hz		
672-290-00-51	Red	220 Vdc		
672-290-22-15	Red	24 Vdc		
672-290-26	Red	230 Vdc		
672-290-75-51	Red	110 Vac 50 Hz		
672-290-76	Red	230 Vac 50 Hz		
672-291-00-51	Yellow	220 Vdc		
672-291-21	Yellow	12 Vdc		
672-291-76	Yellow	230 Vac 50 Hz		
672-292-00-51	Green	220 Vdc		
672-292-21	Green	12 Vdc		
672-292-23	Green	28 Vdc		
672-292-26	Green	230 Vdc		
672-292-76	Green	230 Vac 50 Hz		
672-293-21	Yellow	12 Vdc		

The products listed here illustrate all of the options available to order. These products may have custom modifications that alter their operation beyond the generic information contained within this datasheet. Please contact sales for further information.

* = These products do not contain integral resistors

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design considerations

Electro-Static Discharge (ESD)

Build up of electro-static discharge occurs in many situations involving people moving and handling products. The range of possible situations is very diverse but voltage levels as high as several thousand volts can and do arise in many individual situations. When an operator charged up to these levels handles a static sensitive device, there is a very probable likelihood that the device will be irreversibly damaged. It is essential that precautions are taken at all stages during manufacture and assembly of these products. Although LEDs were never considered to be static sensitive devices, changes in manufacturing technology and materials used to produce higher intensity products over a large range of the wavelength spectrum have changed this. Marl has an approved system of ESD control from goods in, through production and into final packing and despatch. Marl recommend all users of LED based products follow the guidelines of BS 100015.

Power De-Rating

The forward voltage/ current value of an LED is dependant upon the ambient temperature of the environment in which it is operated. Therefore, care must be taken to operate the LED at the correct voltage/ current values, depending upon the ambient temperature. Consequently, a recommendation regarding operating voltages and currents is given in order to address these temperature effects. This recommendation is termed 'de-rating'. It is usual for forward voltages and currents to be specified for ambient temperature of 25°C. However, because the values of these qualities vary with temperature, please refer to the de-rating graphs for correct operation. Marl accept no liability for any product that is operated higher than the stated voltage.

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