QH SERIES Surface mount LED halo

Distinctive Features and Specifications

Features

- Full LED halo illumination
- Single and dual colors available
- Designed to integrate with Ø16, Ø19 and Ø22mm panel cutout switches and other APEM indicators
- Ø22mm oversized version for integration with APEM's range of Emergency Stop Switches
- Panel sealed up to IP67
- 200mm 26AWG UL1061 wire terminations
- Zero behind panel depth
- Anti rotation pin as standard

TECHNICAL SPECIFICATIONS

Voltage	Operating Voltage	Operating Current	Max Reverse Voltage : 5VDC
	(Min to Max)	(Typical All Types)	Life Expectancy : 50,000 Hours
12VDC	12.0	4.2mA	Operating Temperature Range : -30 to +70°C
to	to		Single color PCB : 12 LED's
24VDC	26.4	20mA	Dual color PCB : 12 LED's, 6 of each (alternately placed)
			Bezel & Lens Material : PC

Standard LED	Intensity	Forward Voltage
HE Red	120 mcd	2.0 (typical)
Green	350 mcd	3.1 (typical)
Yellow	90 mcd	2.0 (typical)
Blue	90 mcd	3.1 (typical)
White	350 mcd	3.1 (typical)

Luminous intensity will be reduced with lower operating current.

Dimensions : first dimensions are in mm while inches are shown as bracketed numbers

0

Mounting accessories : Panel seal gasket

Note: The operating voltage must not be exceeded by more that 10% as this will result in reduced life expectancy. The company reserves the right to change specifications without notice. * Customer to supply resistor for desired operating current. Luminous intensity is measured at 20mA on a discrete LED unless otherwise stated. Luminous intensities and color shades of white LEDs may vary within a batch. LED characteristics are dependent upon environmental conditions. Therefore published data should be considered nominal.

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Technical Specifications (Cont)





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Technical Drawings



STANDARD OPTIONS

The QH Series is available with a range of standard options, to specify your LED, simply choose one option from each column. An example is shown below.



Example



QH22L57YC Shown fitted to an Emergency Stop Switch

- Standard wire length is 200mm, 26AWG UL1061, for other wire lengths please contact APEM
- Colored wire denotes Anode (+), black wire denotes Cathode (-)
- Supply voltage is 12 to 24VDC, for alternative voltages please contact APEM
- Dual color LEDs are alternately placed on the internal PCB, by connecting one colored wire (+) a color is produced, by connecting the other colored wire (+) the second color is produced