

LED INDICATOR SELECTION GUIDE

Q6 Series

- Panel mount $\varnothing 6\text{mm}$
- Red, green, yellow, blue, orange & white LED
- Bi-color, hyper bright & super bright LED
- Prominent, recessed & flush bezels
- Bright/black chrome or satin grey finish
- 7 types of termination
- Panel sealed to IP67
- Voltage 2VDC to 28VAC/DC



Q8 Series

- Panel mount $\varnothing 8\text{mm}$
- Red, green, yellow, blue, orange & white LED
- Bi/Tri-color, hyper bright & super bright LED
- Prominent, recessed & flush bezels
- Bright/black chrome or satin grey finish
- 9 types of termination
- Panel sealed to IP67
- Voltage 2VDC to 220VAC



Q10 Series

- Panel mount $\varnothing 10\text{mm}$
- Red, green, yellow, blue, orange & white LED
- Bi/Tri-color, hyper bright & super bright LED
- Chamfered flush bezel
- 316L Stainless steel or anodized aluminum bezel
- Rear epoxy termination
- Panel sealed to IP67
- Voltage 2VDC to 28VAC/DC



Q12 & 12.7 Series

- Panel mount $\varnothing 12\text{mm}$ or $\varnothing 12.7\text{mm}$
- Red, green, yellow, blue, orange & white LED
- Bi/Tri-color, hyper bright & super bright LED *
- Prominent, recessed & flush bezels *
- Bright/black chrome or satin grey finish
- 3 types of termination
- Panel sealed to IP67
- Voltage 2VDC to 220VAC *Flush bezel with limited LED color options



Q14 Series

- Panel mount $\varnothing 14\text{mm}$
- Red, green, yellow, blue, orange & white LED
- Bi/Tri-color, hyper bright & super bright LED
- Prominent, recessed & flush bezels
- Bright/black chrome or satin grey finish
- 7 types of termination
- Panel sealed to IP67
- Voltage 2VDC to 220VAC *Custom options available



Q16 Series

- Panel mount $\varnothing 16\text{mm}$
- Red, green, yellow, blue, orange & white LED
- Bi/Tri-color, hyper bright & super bright LED
- Prominent, recessed & flush bezels
- Bright/black chrome, satin grey finish or black plastic
- 7 types of termination
- Panel sealed to IP67
- Voltage 2VDC to 220VAC *Custom options available



Q19 Series

- Panel mount $\varnothing 19\text{mm}$
- Red, green, yellow, blue, orange & white LED
- Bi/Tri-color, hyper bright & super bright LED
- Prominent, extra prominent, recessed & flush bezels
- Bright/black chrome or satin grey finish
- 7 types of termination
- Panel sealed to IP67
- Voltage 2VDC to 220VAC



Q22 Series

- Panel mount $\varnothing 22\text{mm}$
- Red, green, yellow, blue & white LED
- Bi/Tri-color & super bright LED
- Prominent, recessed, flush & chamfer bezels
- 5 types of termination
- Panel sealed to IP67
- Chrome, stainless steel, plastic or anodized aluminum finish
- Voltage 2VDC to 220VAC *Daisy chain & lamp test options available



QRM Series

- Rear Panel Mount $\varnothing 6$, $\varnothing 8$ & $\varnothing 14\text{mm}$
- Red, green, yellow, blue & white LED
- Bi/Tri-color, hyper bright & super bright LED
- Protected bezel
- Black chrome or anodized aluminum finish
- 2 types of termination ($\varnothing 14$ - wire termination only)
- Panel sealed to IP67; rear end epoxy sealed
- Voltage 2VDC to 28VDC



QS Series

- Panel mount $\varnothing 6$, $\varnothing 8$, $\varnothing 10$ & $\varnothing 12\text{mm}$
- Red, green, yellow, blue & white LED
- Bi/Tri-color, hyper bright LED
- Snap in LED indicators
- Push on tab or wire terminals
- Voltage 2VDC to 220VAC



For typical replacement of filament and neon indicators, offering long service life & high reliability.

QH Series

- Full LED halo illumination
- Single, dual and RGB colors available
- Designed to integrate with $\varnothing 16$, $\varnothing 19$ & $\varnothing 22\text{mm}$ panel cutout switches & indicators
- Oversized $\varnothing 22\text{mm}$ version for APEM's range of Emergency Stop switches
- Panel sealed to IP67
- Zero behind panel depth
- Anti rotation pin
- 200mm 26AWG UL1061 wire termination



Based LEDs

- Ba9, E10, MG & MF
- Voltages 6VAC/DC to 230VAC
- Screw or bayonet cap
- T1½ midget groove & midget flange
- Red, green, yellow, blue & white LED



For typical replacement of filament and neon based lamps, offering long service life and high reliability.

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QRM NV SERIES - NVIS COMPATIBLE

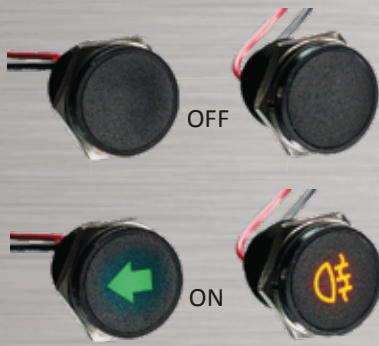
- Rear panel mount Ø8mm
- Protected bezel
- Black chrome finish
- Termination by 200mm wires or rigid pin
- IP67 sealed to EN60529
- Voltage 2VDC to 28VAC/DC
- NVIS compliant to MIL std 3009
- NVIS green A or B, NVIS red



- NVIS yellow A or B, NVIS white
- High temperature NVG filters
- Rear end epoxy sealed
- Operating temperature range -40°F to +185°F
- Storage temperature range -67°F to +212°F
- Max panel thickness 3.5mm, Torque 60cNm
- Standard hardware: nut, spring washer & O-ring
- Custom dress nut available on request

CUSTOMIZATION

Secret-Until-Lit polycarbonate insert legends on Q16 & Q22



- Custom luminosity
- Special finishes

Engraving available on Q14, Q16, Q19 & Q22



- Custom voltages
- Multi voltages

- Custom LED options
- Reverse voltage protection

Cable length, wire gauge and connector options



Please contact APEM for all your custom requirements

SERIES	Q6	Q8	Q10	Q12	Q14	Q16	Q19	Q22	QRM	QS
Panel cut-out	6 mm	8 mm	10 mm	12 / 12.7 mm	14 mm	16 mm	19 mm	22 mm	6, 8, 14 mm	6, 8, 10, 12 mm
Voltage range	2VDC - 28VAC/DC	2VDC - 220VAC	2VDC - 220VAC	2VDC - 220VAC	2VDC - 220VAC	2VDC - 220VAC	2VDC - 220VAC	2VDC - 220VAC	2VDC - 28VDC	
Sealing	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67	
Bezel style										
Prominent	✓	✓		✓	✓	✓	✓	✓		
Recessed	✓	✓		✓	✓	✓	✓	✓		
Flush	✓	✓	✓	✓	✓	✓	✓	✓		
Chamfer			✓	✓	✓	✓	✓	✓		
Terminal options										
Solder lugs / fastons	✓	✓		✓	✓	✓	✓	✓		✓
Pins	✓	✓		✓	✓	✓	✓	✓		✓
Wires	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bezel finish										
Bright / black chrome	✓	✓		✓	✓	✓	✓	✓	✓	
Satin chrome	✓	✓		✓	✓	✓	✓	✓		
Stainless steel / anodized aluminum			✓	✓	✓	✓	✓	✓		
Type of illumination										
Fixed light	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Flashing	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Bi-color	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tri-color		✓	✓	✓	✓	✓	✓	✓	✓	✓
Night vision										*
LED colors										
Standard	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Super bright	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hyper bright	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

* limited options with flush

* NV available in 8 & 14 mm