



## Certifications & Ratings

- UL1598: wire leads — UL listed; terminals — UL recognized
- NEMA 4X
- IP66/67
- RoHS compliant — w/6C exemption

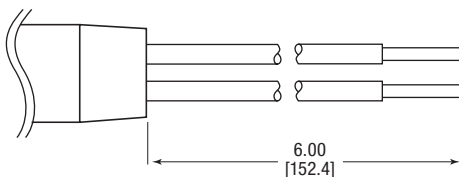
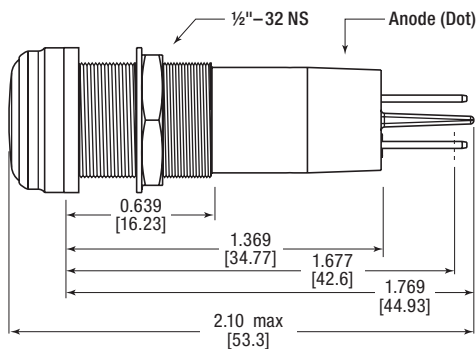
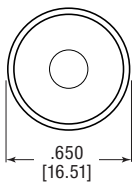
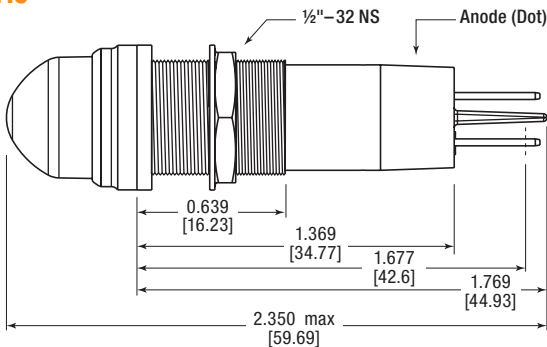
## Application

The 656 Series LED Panel Mount Indicators are designed for a variety of applications such as:

- Safety Applications
- Instrument Panels
- Vending/Gaming
- Display Lighting
- Transportation — rail, bus, airline  
... and many more!

## Dimensions

inches [mm]



## Mechanical information

- Mounting Hole Size:** 0.500" (12.7 mm)  
**Max Panel Thickness:** 0.450" (11.43 mm)  
**Mounting Torque:** 5 in-lbs

## Specifications

- Voltage Options:** 5 to 125VDC and 125, 230VAC (bi-color 5, 12, 24 VDC) (no resistor required)
- Operating Temp:** -30 °C to +85 °C (22 °F to +185 °F)
- Storage Temp:** -40 °C to +100 °C (-40 °F to +212 °F)
- Electrical Connection:** 110 Faston quick connect terminals or 6" wire leads
- Housing:** Brass—White or Black Nickel Plated
- Lens Material:** Transparent polycarbonate (UL 94V-0)
- Wire Leads:** 18 AWG
- Lock Washer:** Bronze—White or Black Nickel Plated
- Nut:** Brass—White or Black Nickel Plated

## Ordering Information

### 656 Series

| Part Number Guide |   |   |   |            |   |     |   |   |   | RoHS Compliant |   |             |  |              |  |   |  |        |  |
|-------------------|---|---|---|------------|---|-----|---|---|---|----------------|---|-------------|--|--------------|--|---|--|--------|--|
| 6                 | 5 | 6 | - | X          | X | X   | X | - | X | 0              | X | F           |  |              |  |   |  |        |  |
|                   |   |   |   | Lens Style |   |     |   |   |   | Voltage        |   | Termination |  |              |  |   |  |        |  |
|                   |   |   |   | Flat       |   | 1   |   |   |   |                |   | 2           |  | 5VDC         |  | 3 |  | Wires  |  |
|                   |   |   |   | Domed      |   | 3   |   |   |   |                |   | 3           |  | 12VDC        |  | 4 |  | Blades |  |
|                   |   |   |   | Color      |   |     |   |   |   |                |   | 4           |  | 24VDC        |  |   |  |        |  |
|                   |   |   |   | ○ White    |   | 0 0 |   |   |   |                |   | 6           |  | 28VDC*       |  |   |  |        |  |
|                   |   |   |   | ● Red      |   | 1 0 |   |   |   |                |   | 8           |  | 37.5VDC*     |  | 2 |  | Black  |  |
|                   |   |   |   | ● Green    |   | 2 0 |   |   |   |                |   | A           |  | 48VDC*†‡     |  | 3 |  | White  |  |
|                   |   |   |   | ● Yellow   |   | 3 0 |   |   |   |                |   | 7           |  | 72VDC*       |  |   |  |        |  |
|                   |   |   |   | ● Orange   |   | 3 5 |   |   |   |                |   | 5           |  | 120 VAC/DC*† |  |   |  |        |  |
|                   |   |   |   | ● Blue     |   | 4 0 |   |   |   |                |   | 9           |  | 230VAC*†     |  |   |  |        |  |
|                   |   |   |   | ● Red      |   | 1 2 |   |   |   |                |   |             |  |              |  |   |  |        |  |
|                   |   |   |   | ● Green    |   | 1 2 |   |   |   |                |   |             |  |              |  |   |  |        |  |
|                   |   |   |   | ● Yellow   |   | 3 2 |   |   |   |                |   |             |  |              |  |   |  |        |  |
|                   |   |   |   | ● Green    |   | 3 2 |   |   |   |                |   |             |  |              |  |   |  |        |  |
|                   |   |   |   |            |   |     |   |   |   |                |   |             |  |              |  |   |  |        |  |

\* single color only  
† white nickel plating only  
‡ wire leads only

## 656 Series — Bi-Color

### Flat Lens

| Part #—with Wire Leads |                      | Part #—with Blade Terminals |                      | Color               | Voltage (VDC) | Typ Current (mA) | Typical Intensity (mcd) |
|------------------------|----------------------|-----------------------------|----------------------|---------------------|---------------|------------------|-------------------------|
| White Nickel Plating   | Black Nickel Plating | White Nickel Plating        | Black Nickel Plating |                     |               |                  |                         |
| 656-1122-303F          | 656-1122-203F        | 656-1122-304F               | 656-1122-204F        | ● Red<br>● Green    | 5             | 11/8             | 330/910                 |
| 656-1322-303F          | 656-1322-203F        | 656-1322-304F               | 656-1322-204F        | ● Yellow<br>● Green | 5             | 11/8             | 320/864                 |
| 656-1123-303F          | 656-1123-203F        | 656-1123-304F               | 656-1123-204F        | ● Red<br>● Green    | 12            | 10/9             | 330/910                 |
| 656-1323-303F          | 656-1323-203F        | 656-1323-304F               | 656-1323-204F        | ● Yellow<br>● Green | 12            | 10/9             | 320/864                 |
| 656-1124-303F          | 656-1124-203F        | 656-1124-304F               | 656-1124-204F        | ● Red<br>● Green    | 24            | 11/10            | 330/910                 |
| 656-1324-303F          | 656-1324-203F        | 656-1324-304F               | 656-1324-204F        | ● Yellow<br>● Green | 24            | 11/10            | 320/864                 |

### Domed Lens

| Part #—with Wire Leads |                      | Part #—with Blade Terminals |                      | Color               | Voltage (VDC) | Typ Current (mA) | Typical Intensity (mcd) |
|------------------------|----------------------|-----------------------------|----------------------|---------------------|---------------|------------------|-------------------------|
| White Nickel Plating   | Black Nickel Plating | White Nickel Plating        | Black Nickel Plating |                     |               |                  |                         |
| 656-3122-303F          | 656-3122-203F        | 656-3122-304F               | 656-3122-204F        | ● Red<br>● Green    | 5             | 11/8             | 490/1340                |
| 656-3322-303F          | 656-3322-203F        | 656-3322-304F               | 656-3322-204F        | ● Yellow<br>● Green | 5             | 11/8             | 480/430                 |
| 656-3123-303F          | 656-3123-203F        | 656-3123-304F               | 656-3123-204F        | ● Red<br>● Green    | 12            | 10/9             | 490/1340                |
| 656-3323-303F          | 656-3323-203F        | 656-3323-304F               | 656-3323-204F        | ● Yellow<br>● Green | 12            | 10/9             | 480/430                 |
| 656-3124-303F          | 656-3124-203F        | 656-3124-304F               | 656-3124-204F        | ● Red<br>● Green    | 24            | 11/10            | 490/1340                |
| 656-3324-303F          | 656-3324-203F        | 656-3324-304F               | 656-3324-204F        | ● Yellow<br>● Green | 24            | 11/10            | 480/430                 |

### Flat Lens

## Ordering Information

### 656 Series—Single Color

| Part #—with Wire Leads |                      | Part #—with Blade Terminals |                      | Color  | Voltage       | Typ Current (mA) | Typical Intensity (mcd) |
|------------------------|----------------------|-----------------------------|----------------------|--------|---------------|------------------|-------------------------|
| White Nickel Plating   | Black Nickel Plating | White Nickel Plating        | Black Nickel Plating |        |               |                  |                         |
| 656-1002-303F          | 656-1002-203F        | 656-1002-304F               | 656-1002-204F        | White  | 5 (VDC)       | 15               | 1510                    |
| 656-1102-303F          | 656-1102-203F        | 656-1102-304F               | 656-1102-204F        | Red    |               | 16               | 1150                    |
| 656-1202-303F          | 656-1202-203F        | 656-1202-304F               | 656-1202-204F        | Green  |               | 15               | 1600                    |
| 656-1302-303F          | 656-1302-203F        | 656-1302-304F               | 656-1302-204F        | Yellow |               | 16               | 990                     |
| 656-1352-303F          | 656-1352-203F        | 656-1352-304F               | 656-1352-204F        | Orange |               | 16               | 1800                    |
| 656-1402-303F          | 656-1402-203F        | 656-1402-304F               | 656-1402-204F        | Blue   |               | 15               | 237                     |
| 656-1003-303F          | 656-1003-203F        | 656-1003-304F               | 656-1003-204F        | White  | 12 (VDC)      | 18               | 1310                    |
| 656-1103-303F          | 656-1103-203F        | 656-1103-304F               | 656-1103-204F        | Red    |               | 18               | 1100                    |
| 656-1203-303F          | 656-1203-203F        | 656-1203-304F               | 656-1203-204F        | Green  |               | 16               | 1140                    |
| 656-1303-303F          | 656-1303-203F        | 656-1303-304F               | 656-1303-204F        | Yellow |               | 18               | 880                     |
| 656-1353-303F          | 656-1353-203F        | 656-1353-304F               | 656-1353-204F        | Orange |               | 18               | 1800                    |
| 656-1403-303F          | 656-1403-203F        | 656-1403-304F               | 656-1403-204F        | Blue   |               | 16               | 290                     |
| 656-1004-303F          | 656-1004-203F        | 656-1004-304F               | 656-1004-204F        | White  | 24 (VDC)      | 20               | 1310                    |
| 656-1104-303F          | 656-1104-203F        | 656-1104-304F               | 656-1104-204F        | Red    |               |                  | 1100                    |
| 656-1204-303F          | 656-1204-203F        | 656-1204-304F               | 656-1204-204F        | Green  |               |                  | 1140                    |
| 656-1304-303F          | 656-1304-203F        | 656-1304-304F               | 656-1304-204F        | Yellow |               |                  | 880                     |
| 656-1354-303F          | 656-1354-203F        | 656-1354-304F               | 656-1354-204F        | Orange |               |                  | 1800                    |
| 656-1404-303F          | 656-1404-203F        | 656-1404-304F               | 656-1404-204F        | Blue   |               |                  | 290                     |
| 656-1006-303F          | 656-1006-203F        | 656-1006-304F               | 656-1006-204F        | White  | 28 (VDC)      | 19               | 1310                    |
| 656-1106-303F          | 656-1106-203F        | 656-1106-304F               | 656-1106-204F        | Red    |               | 19               | 1100                    |
| 656-1206-303F          | 656-1206-203F        | 656-1206-304F               | 656-1206-204F        | Green  |               | 18               | 1140                    |
| 656-1306-303F          | 656-1306-203F        | 656-1306-304F               | 656-1306-204F        | Yellow |               | 19               | 880                     |
| 656-1356-303F          | 656-1356-203F        | 656-1356-304F               | 656-1356-204F        | Orange |               | 19               | 1800                    |
| 656-1406-303F          | 656-1406-203F        | 656-1406-304F               | 656-1406-204F        | Blue   |               | 18               | 290                     |
| 656-1008-303F          | 656-1008-203F        | 656-1008-304F               | 656-1008-204F        | White  | 37.5 (VDC)    | 8.5              | 400                     |
| 656-1108-303F          | 656-1108-203F        | 656-1108-304F               | 656-1108-204F        | Red    |               |                  | 230                     |
| 656-1208-303F          | 656-1208-203F        | 656-1208-304F               | 656-1208-204F        | Green  |               |                  | 450                     |
| 656-1308-303F          | 656-1308-203F        | 656-1308-304F               | 656-1308-204F        | Yellow |               |                  | 190                     |
| 656-1358-303F          | 656-1358-203F        | 656-1358-304F               | 656-1358-204F        | Orange |               |                  | 835                     |
| 656-1408-303F          | 656-1408-203F        | 656-1408-304F               | 656-1408-204F        | Blue   |               |                  | 100                     |
| 656-110A-303F          | —                    | 656-110A-304F               | —                    | Red    | 48 (VDC)      | 10               | 230                     |
| 656-120A-303F          | —                    | 656-120A-304F               | —                    | Green  |               |                  | 450                     |
| 656-130A-303F          | —                    | 656-130A-304F               | —                    | Yellow |               |                  | 190                     |
| 656-1007-303F          | 656-1007-203F        | 656-1007-304F               | 656-1007-204F        | White  | 72 (VDC)      | 8.5              | 400                     |
| 656-1107-303F          | 656-1107-203F        | 656-1107-304F               | 656-1107-204F        | Red    |               |                  | 230                     |
| 656-1207-303F          | 656-1207-203F        | 656-1207-304F               | 656-1207-204F        | Green  |               |                  | 450                     |
| 656-1307-303F          | 656-1307-203F        | 656-1307-304F               | 656-1307-204F        | Yellow |               |                  | 190                     |
| 656-1357-303F          | 656-1357-203F        | 656-1357-304F               | 656-1357-204F        | Orange |               |                  | 835                     |
| 656-1407-303F          | 656-1407-203F        | 656-1407-304F               | 656-1407-204F        | Blue   |               |                  | 100                     |
| 656-1005-303F          | —                    | 656-1005-304F               | —                    | White  | 120 (VAC/VDC) | 5                | 400                     |
| 656-1105-303F          | —                    | 656-1105-304F               | —                    | Red    |               |                  | 230                     |
| 656-1205-303F          | —                    | 656-1205-304F               | —                    | Green  |               |                  | 450                     |
| 656-1305-303F          | —                    | 656-1305-304F               | —                    | Yellow |               |                  | 190                     |
| 656-1355-303F          | —                    | 656-1355-304F               | —                    | Orange |               |                  | 260                     |
| 656-1405-303F          | —                    | 656-1405-304F               | —                    | Blue   |               |                  | 100                     |
| 656-1009-303F          | —                    | 656-1009-304F               | —                    | White  | 230 (VAC)     | 3                | 400                     |
| 656-1109-303F          | —                    | 656-1109-304F               | —                    | Red    |               |                  | 230                     |
| 656-1209-303F          | —                    | 656-1209-304F               | —                    | Green  |               |                  | 450                     |
| 656-1309-303F          | —                    | 656-1309-304F               | —                    | Yellow |               |                  | 190                     |
| 656-1359-303F          | —                    | 656-1359-304F               | —                    | Orange |               |                  | 260                     |
| 656-1409-303F          | —                    | 656-1409-304F               | —                    | Blue   |               |                  | 100                     |

### Domed Lens

| Part #—with Wire Leads |                      | Part #—with Blade Terminals |                      | Color    | Voltage       | Typ Current (mA) | Typical Intensity (mcd) |
|------------------------|----------------------|-----------------------------|----------------------|----------|---------------|------------------|-------------------------|
| White Nickel Plating   | Black Nickel Plating | White Nickel Plating        | Black Nickel Plating |          |               |                  |                         |
| 656-3002-303F          | 656-3002-203F        | 656-3002-304F               | 656-3002-204F        | ○ White  | 5 (VDC)       | 15               | 3080                    |
| 656-3102-303F          | 656-3102-203F        | 656-3102-304F               | 656-3102-204F        | ● Red    |               | 16               | 2200                    |
| 656-3202-303F          | 656-3202-203F        | 656-3202-304F               | 656-3202-204F        | ● Green  |               | 15               | 2880                    |
| 656-3302-303F          | 656-3302-203F        | 656-3302-304F               | 656-3302-204F        | ● Yellow |               | 16               | 1960                    |
| 656-3352-303F          | 656-3352-203F        | 656-3352-304F               | 656-3352-204F        | ● Orange |               | 16               | 4400                    |
| 656-3402-303F          | 656-3402-203F        | 656-3402-304F               | 656-3402-204F        | ● Blue   |               | 15               | 600                     |
| 656-3003-303F          | 656-3003-203F        | 656-3003-304F               | 656-3003-204F        | ○ White  | 12 (VDC)      | 18               | 2340                    |
| 656-3103-303F          | 656-3103-203F        | 656-3103-304F               | 656-3103-204F        | ● Red    |               | 18               | 2000                    |
| 656-3203-303F          | 656-3203-203F        | 656-3203-304F               | 656-3203-204F        | ● Green  |               | 16               | 2110                    |
| 656-3303-303F          | 656-3303-203F        | 656-3304-304F               | 656-3303-204F        | ● Yellow |               | 18               | 1080                    |
| 656-3353-303F          | 656-3353-203F        | 656-3353-304F               | 656-3353-204F        | ● Orange |               | 18               | 4400                    |
| 656-3403-303F          | 656-3403-203F        | 656-3403-304F               | 656-3403-204F        | ● Blue   |               | 16               | 640                     |
| 656-3004-303F          | 656-3004-203F        | 656-3004-304F               | 656-3004-204F        | ○ White  | 24 (VDC)      | 20               | 2340                    |
| 656-3104-303F          | 656-3104-203F        | 656-3104-304F               | 656-3104-204F        | ● Red    |               |                  | 2000                    |
| 656-3204-303F          | 656-3204-203F        | 656-3204-304F               | 656-3204-204F        | ● Green  |               |                  | 2110                    |
| 656-3304-303F          | 656-3304-203F        | 656-3304-304F               | 656-3304-204F        | ● Yellow |               |                  | 1080                    |
| 656-3354-303F          | 656-3354-203F        | 656-3354-304F               | 656-3354-204F        | ● Orange |               |                  | 4400                    |
| 656-3404-303F          | 656-3404-203F        | 656-3404-304F               | 656-3404-204F        | ● Blue   |               |                  | 640                     |
| 656-3006-303F          | 656-3006-203F        | 656-3006-304F               | 656-3006-204F        | ○ White  | 28 (VDC)      | 19               | 2340                    |
| 656-3106-303F          | 656-3106-203F        | 656-3106-304F               | 656-3106-204F        | ● Red    |               | 19               | 2000                    |
| 656-3206-303F          | 656-3206-203F        | 656-3206-304F               | 656-3206-204F        | ● Green  |               | 18               | 2110                    |
| 656-3306-303F          | 656-3306-203F        | 656-3306-304F               | 656-3306-204F        | ● Yellow |               | 19               | 1080                    |
| 656-3356-303F          | 656-3356-203F        | 656-3356-304F               | 656-3356-204F        | ● Orange |               | 19               | 4400                    |
| 656-3406-303F          | 656-3406-203F        | 656-3406-304F               | 656-3406-204F        | ● Blue   |               | 18               | 640                     |
| 656-3008-303F          | 656-3008-203F        | 656-3008-304F               | 656-3008-204F        | ○ White  | 37.5 (VDC)    |                  | 660                     |
| 656-3108-303F          | 656-3108-203F        | 656-3108-304F               | 656-3108-204F        | ● Red    |               |                  | 410                     |
| 656-3208-303F          | 656-3208-203F        | 656-3208-304F               | 656-3208-204F        | ● Green  |               |                  | 800                     |
| 656-3308-303F          | 656-3308-203F        | 656-3308-304F               | 656-3308-204F        | ● Yellow |               |                  | 390                     |
| 656-3358-303F          | 656-3358-203F        | 656-3358-304F               | 656-3358-204F        | ● Orange |               |                  | 2000                    |
| 656-3408-303F          | 656-3408-203F        | 656-3408-304F               | 656-3408-204F        | ● Blue   |               |                  | 220                     |
| 656-310A-303F          | —                    | 656-310A-304F               | —                    | ● Red    | 48 (VDC)      | 10               | 410                     |
| 656-320A-303F          | —                    | 656-320A-304F               | —                    | ● Green  |               |                  | 800                     |
| 656-330A-303F          | —                    | 656-330A-304F               | —                    | ● Yellow |               |                  | 390                     |
| 656-3007-303F          | 656-3007-203F        | 656-3007-304F               | 656-3007-204F        | ○ White  | 72 (VDC)      |                  | 660                     |
| 656-3107-303F          | 656-3107-203F        | 656-3107-304F               | 656-3107-204F        | ● Red    |               |                  | 410                     |
| 656-3207-303F          | 656-3207-203F        | 656-3207-304F               | 656-3207-204F        | ● Green  |               |                  | 800                     |
| 656-3307-303F          | 656-3307-203F        | 656-3307-304F               | 656-3307-204F        | ● Yellow |               |                  | 390                     |
| 656-3357-303F          | 656-3357-203F        | 656-3357-304F               | 656-3357-204F        | ● Orange |               |                  | 2000                    |
| 656-3407-303F          | 656-3407-203F        | 656-3407-304F               | 656-3407-204F        | ● Blue   |               |                  | 220                     |
| 656-3005-303F          | —                    | 656-3005-304F               | —                    | ○ White  | 120 (VAC/VDC) | 5                | 660                     |
| 656-3105-303F          | —                    | 656-3105-304F               | —                    | ● Red    |               |                  | 410                     |
| 656-3205-303F          | —                    | 656-3205-304F               | —                    | ● Green  |               |                  | 800                     |
| 656-3305-303F          | —                    | 656-3305-304F               | —                    | ● Yellow |               |                  | 390                     |
| 656-3355-303F          | —                    | 656-3355-304F               | —                    | ● Orange |               |                  | 610                     |
| 656-3405-303F          | —                    | 656-3405-304F               | —                    | ● Blue   |               |                  | 220                     |
| 656-3009-303F          | —                    | 656-3009-304F               | —                    | ○ White  | 230 (VAC)     | 3                | 660                     |
| 656-3109-303F          | —                    | 656-3109-304F               | —                    | ● Red    |               |                  | 410                     |
| 656-3209-303F          | —                    | 656-3209-304F               | —                    | ● Green  |               |                  | 800                     |
| 656-3309-303F          | —                    | 656-3309-304F               | —                    | ● Yellow |               |                  | 390                     |
| 656-3359-303F          | —                    | 656-3359-304F               | —                    | ● Orange |               |                  | 610                     |
| 656-3409-303F          | —                    | 656-3409-304F               | —                    | ● Blue   |               |                  | 220                     |

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