

Dialight

Signals & Components



MARINE

Panel Mount Indicators



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Visit us online!

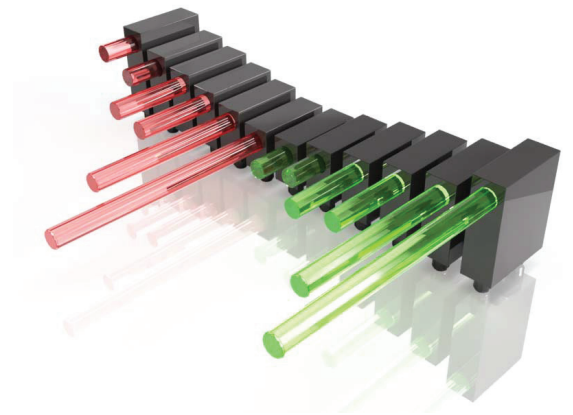
Product information at your fingertips!

- Literature
- Parametric search
- Environmental compliance
- Where to buy / stock check
- Datasheets
- Key word searches



Dialight reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.dialightsignalsandcomponents.com

Warranty Statement: Except for the warranty expressly provided for at: www.dialight.com/resources/warranties/, Dialight disclaims any and all other warranties, express or implied, including, without limitation, any warranties of merchantability, fitness for a particular purpose, title, and noninfringement.

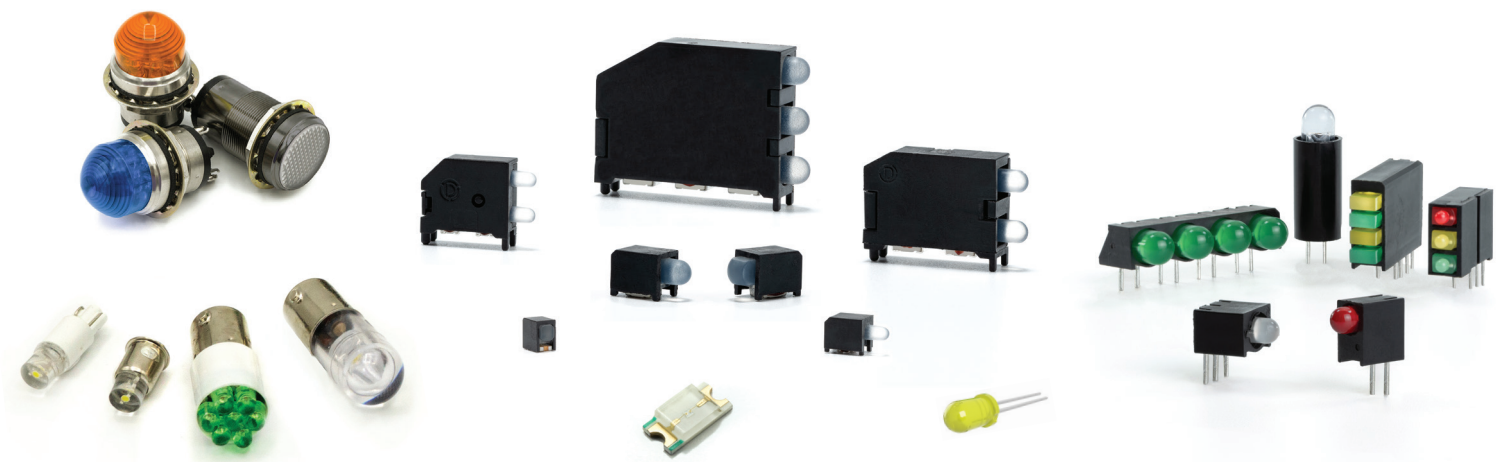


About us

Dialight is a market leader within the LED indication and signals communities, with millions of products used in most markets throughout the world. Our story began in 1938 in Brooklyn, NY, producing panel indication components for military aircraft and industrial applications. In 1971, shortly following the inception of the LED, we launched our first LED component product. In 1995 came our introduction of the first LED Vehicle light and Traffic signals in North America, followed by the first ever hazardous location certified LED lighting system. We have continued to revolutionize the use of LEDs to provide superior indication products, vehicle lights, traffic signals as well as lighting for structural towers and industrial work sites around the world.

Dialight Signals & Components continues the development specifically in the area of Optoelectronic components, Traffic, Vehicle and Rail lighting products. We boast a first rate team of engineers with a knowledge base that provides the best in technology development and superior product functionality and durability. We remain the industry authority in LED board level through hole and surface mount indication, with an exceptional range of the revolutionary Prism® SMDs and Optopipe® Light Pipes. Having expanded LED technology into our legendary panel mount line and based LED bulbs, Dialight offers the widest range and most reliability of indicator products. It is our commitment to our customers to continue to provide these reliable, high quality LED products, with best in class service and support, for decades to come.

We see a world transformed to be safer, more productive, and environmentally friendly through the use of LEDs. With the most options and the highest quality, it's not just a light; it's a Dialight.



Panel Mount Indicators For Tough Environments

Reliability - from rivers and lakes to the open sea

Electronic components used onboard ships, yachts, offshore platforms, and wind farms are consistently exposed to the elements and must be able to withstand corrosive salt spray, wind, and hydrostatic pressure. High quality, durability, and reliability are essential as these components are often mission- and safety-critical, like navigation systems, communication equipment, and operational controls.

The same stringent requirements apply to the subcomponents of these marine systems. LED indicators for example play a critical role in monitoring the operational status of any given system and providing visual alarms in case of system failure.

LED Panel Mount Indicators - that won't leave your application dead in the water

Dialight offers a large selection of indicator solutions with varying levels of protection that are uniquely suited for operation in marine environments.

They come in daylight viewable versions to ensure visibility even in bright sunlight and are available in a variety of color combinations and different lens styles.

Designed for mounting hole sizes from 0.283" (7.2mm) to 1" (25.4mm).

These specific LED panel mount indicators feature waterproof designs with additional seals and robust housings that are shock and vibration-proof. They are available with one or a combination of the following ratings and certifications:

- IP66
- IP67
- NEMA 4X
- UL 1598 (E156890)
- IK10
- RoHS



Seamless performance under tough conditions

The unparalleled level of quality and reliability of our products, coupled with expert technical advice and first-rate customer service is why customers worldwide choose Dialight LED panel mount indicators for their marine applications.

Common areas of application include, but are not limited to:

- Engine and Power Controls
- GPS & Radar Systems
- Multi-function Navigation Controls
- Fish Finders/SONAR Modules
- Thermal & Visible Cameras
- Marine Electrical Screeners
- Marine VHF Communication Devices
- Audio/Video Equipment
- Autonomous Identification Systems
- Analogue & Digital Communication Equipment
- Safety and Security Systems





Snap-In LED .250" (6.35 mm) Mounting Hole

Dialight's 559 series LED panel mount indicator is available with a variety of LEDs including AlInGaP and InGaN technology for high brightness applications, bicolor and integral resistors.

- Power controls
- General indication
- Medical
- Automation controls
- Fan trays

MECHANICAL / SPECIFICATIONS

Mounting Hole Size:

0.249–0.252" (6.32–6.40 mm)

Max Panel Thickness:

0.031–0.062" (.787–1.57 mm)

Mounting Torque: N/A

Voltage Options:

1.6–2.3 V DC typical (resistor required)

5, 12, 24V DC (no resistor required)

Operating Temp: See table

Storage Temp:

-55 °C to +100 °C (-67 °F to +212 °F)

Electrical Connection:

Straight terminals for wire wrapping or 24 AWG lead wire

Housing: Black—UL94V-0 and enhances LED contrast

Wire Leads: 6" or 14"

Connectors: Available upon request

Possible Connectors:

Molex 50-57-9402

AMP 3-643814-3

Terminals: Available upon request

Possible Terminals:

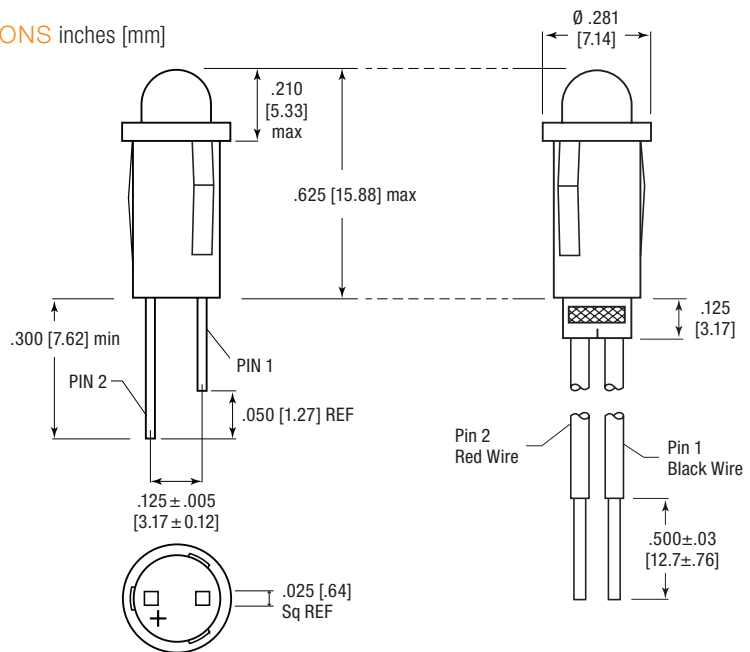
Molex 16-02-0069, 16-02-077,

AMP 42067-1

CERTIFICATIONS & RATINGS

RoHS compliant

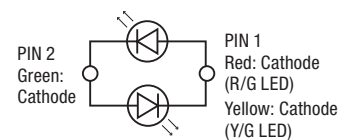
DIMENSIONS inches [mm]



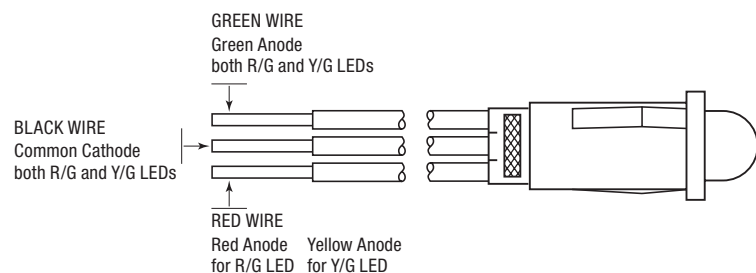
SINGLE COLOR LED SCHEMATIC



BICOLOR LED SCHEMATIC



3-leaded bicolor



Part Number Guide

5	5	9	-	X	X	X	X	-	0	X	X	F
LED Code (see below)				Wire Code				Termination Code				
				Standard				0		Straight Terminals		
				PVC Free				2		24 AWG 6" wire leads		
										24 AWG 14" wire leads		
										1		
										3		
										7		

LED Code	Color	Peak Wavelength (nm)	Intensity Typ. (mcd)	If Typ. (mA)	Vf Typ. (V DC)	Viewing Angle	Max DC Forward Current (mA)	Type	Operating Temp
5501	Red	635	125	20	2.2	24	30	Non-Tinted / Non-Diffused	-55 °C to +100 °C
5601	Green	565	120		2.3	24	30		-20 °C to +100 °C
5701	Yellow	583	140		2.1	24	20		-55 °C to +100 °C
5801	Orange	605	90		2.2	20	50		-30 °C to +85 °C
5901	Yellow	592	3100		2	15	50		-40 °C to +100 °C
6001	Blue	470	1500		3.6	30	30		-30 °C to +85 °C
6101	Red	635	2100		1.9	15	50		-40 °C to +100 °C
6201	Green	525	5000		3.2	30	30		-30 °C to +85 °C
6301	Orange	609	4000		1.9	15	50		-40 °C to +100 °C
6401	White	X = .31 Y = .32	2500		3.2	50	30		-30 °C to +85 °C
1101	Red	635	2.3	2	1.7	50	7	Low Current Diffused	-55 °C to +100 °C
1201	Yellow	583	1.8		1.9	50	7		
1301	Green	565	1.8		1.8	50	7		
2101	Red	650	6.3	10	2.2	50	20	Diffused	-25 °C to +85 °C
2201	Green	563	10		2.1	65	25		-55 °C to +100 °C
2301	Yellow	585	29		1.9	50	20		
2501	Orange	600	7		1.9	60	30		
5101	Red	635	40	10	2	50	25		-40 °C to -100 °C
5201	Green	565	19		2.1	50	30		-55 °C to +100 °C
5301	Yellow	585	29		2.1	50	20		
5401	Amber	610	50	20	2.1	50	20	5V Integral Resistor	-40 °C to -100 °C
0102	Red	635	8	10	5	60	15		-40 °C to +85 °C
0202	Green	565	8	12	5	60	15		-20 °C to +85 °C
0302	Yellow	583	8	10	5	60	15	12V Integral Resistor	-40 °C to +85 °C
0103	Red	635	8	13	12	60	15		-55 °C to +100 °C
0203	Green	565	8		12	60	15		-20 °C to +85 °C
0303	Yellow	583	8		12	60	15		-40 °C to +85 °C
5904	Yellow	592	3100	20	24	15	50	24V Integral Resistor	-30 °C to +85 °C
6104	Red	635	2100		24	15	50		
6204	Green	525	5000		24	30	50		
3001	Red / Green	660/565	90/40	10	1.8/2.1	60	40/30	2 leaded Bi-color	-55 °C to +100 °C
3201	Yellow / Green	589/571	30/50		2.1/2.1	50	20		-30 °C to +85 °C
3501	Red / Green	635/565	5.0/8.0		2.1/2.3	65	30	3 leaded Bi-color	-20 °C to +85 °C
3601	Yellow / Green	590/568	9/13.5		2/2.1	65	30		



8 mm Heavy Duty Panel Mount Indicators

The 620 Series Heavy Duty LED Panel Mount Indicators are elegantly designed for a high-end aesthetic paired with sturdy construction. These indicators are non-magnetic, corrosion resistant for both indoor and outdoor use, and secured to prevent dirt, dust, and water penetration. Ideal for a variety of applications such as:

- Instrumentation
- Navigation
- Industrial panels
- Communications
- Warning lights

MECHANICAL / SPECIFICATIONS

Mounting Hole Size:

0.323" (8.2 mm)

Max Panel Thickness:

0.394" (10 mm)

Mounting Torque:

7.01 lbs-ft (9.5 Nm)

Operating Voltage:

3 VDC (external resistor required)
6, 12 & 24 VDC
(internal resistor included)

Operating Temp:

-25 °C to +70 °C (-13 °F to 158 °F)

Storage Temp:

-25 °C to +70 °C (-13 °F to 158 °F)

Electrical Connection:

Solder terminals

Housing: Stainless Steel

Terminals: Stainless Steel

Nut: Stainless Steel

CERTIFICATIONS & RATINGS

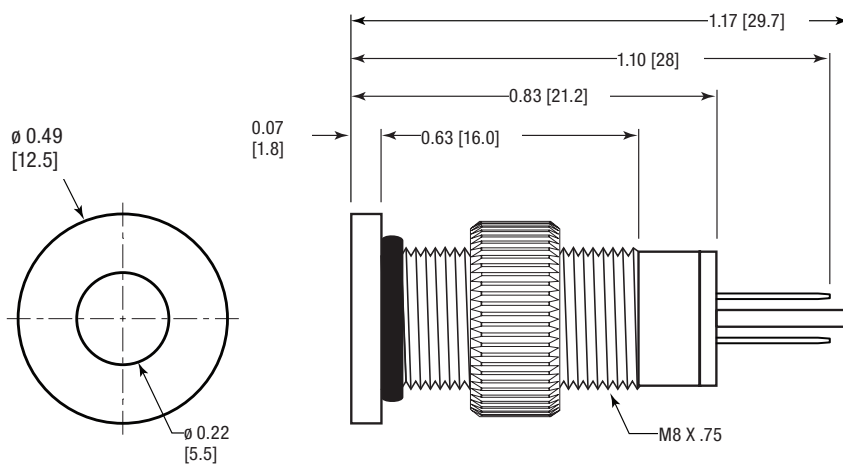
RoHS compliant

IP66/IP67

IK10

NEMA 4X

DIMENSIONS inches [mm]



These indicators are un-polarized.



22 mm Heavy Duty TriColor Panel Mount Indicators

The 621 Series Heavy Duty LED Panel Mount Indicators are elegantly designed for a high-end aesthetic paired with sturdy construction. These indicators are non-magnetic, corrosion resistant for both indoor and outdoor use, and secured to prevent dirt, dust, and water penetration. Ideal for a variety of applications such as:

- Pilot lights
- Heavy duty vehicles
- Industrial controls
- Manufacturing equipment
- Maintenance and warning indication

MECHANICAL / SPECIFICATIONS

Mounting Hole Size:

0.866" (22 mm)

Max Panel Thickness:

0.394" (10 mm)

Mounting Torque:

7.01 lbs-ft (9.5 Nm)

Operating Voltage:

3, 6, 12 & 24 VDC
(internal resistor included)

Operating Temp:

-25 °C to +70 °C (-13 °F to 158 °F)

Storage Temp:

-25 °C to +70 °C (-13 °F to 158 °F)

Electrical Connection:

Solder terminals, Common Cathode

Housing: Stainless Steel

Terminals: Stainless Steel

Nut: Stainless Steel

CERTIFICATIONS & RATINGS

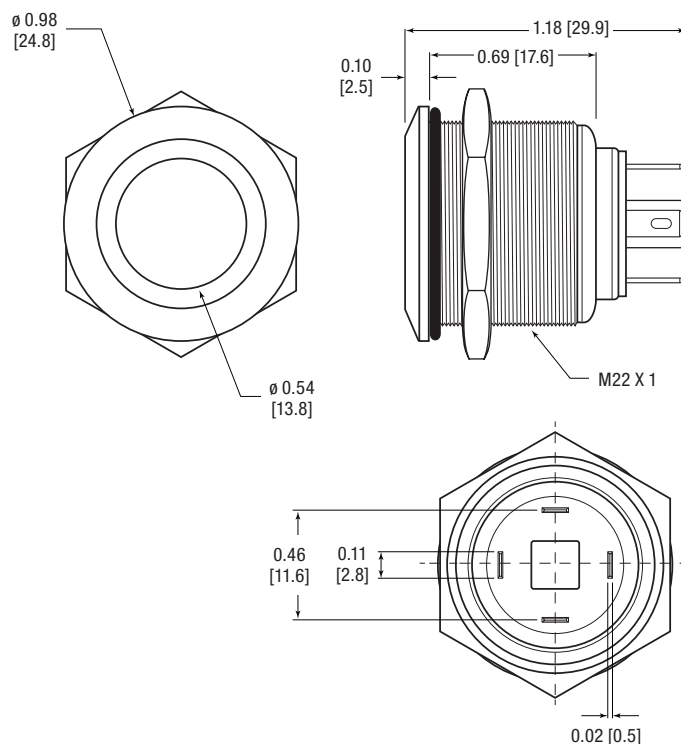
RoHS compliant

IP66/IP67

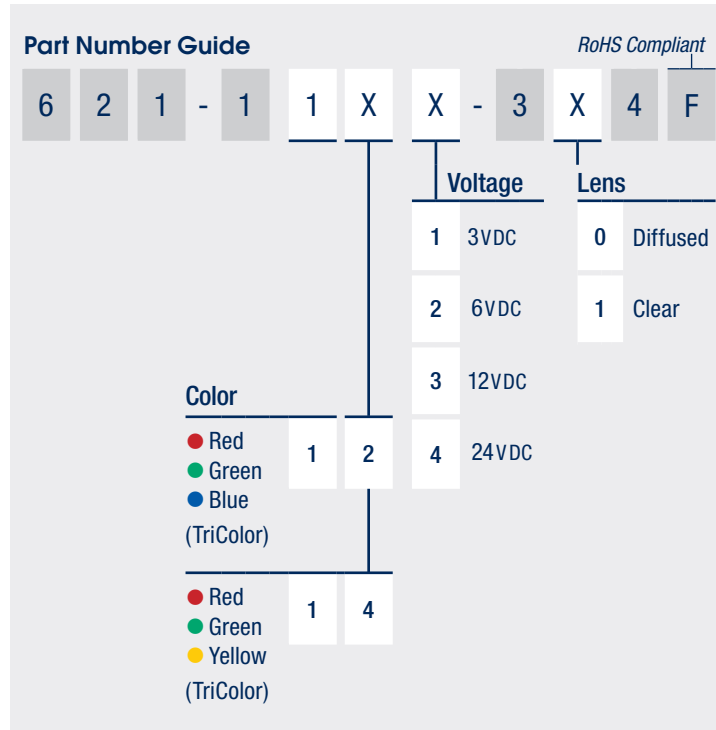
IK10

NEMA 4X

DIMENSIONS inches [mm]



Please use the markings on the housing to properly connect this part for normal operation.



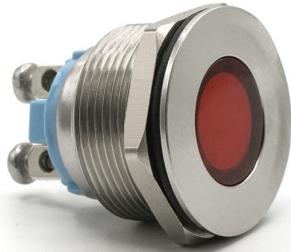
Dialight P/N	Color	Voltage (V DC)	Current (mA)	Typical Intensity (mcd)
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DIFFUSED LENS

621-1121-304F	(TriColor)	3	15	● Red: 200 ● Green: 250 ● Blue: 300
621-1122-304F	● Red	6		
621-1123-304F	● Green	12		
621-1124-304F	● Blue	24		
621-1141-304F	(TriColor)	3	15	● Red: 115 ● Green: 110 ● Yellow: 435
621-1142-304F	● Red	6		
621-1143-304F	● Green	12		
621-1144-304F	● Yellow	24		

CLEAR LENS

621-1121-314F	(TriColor)	3	15	● Red: 200 ● Green: 250 ● Blue: 300
621-1122-314F	● Red	6		
621-1123-314F	● Green	12		
621-1124-314F	● Blue	24		
621-1141-314F	(TriColor)	3	15	● Red: 115 ● Green: 110 ● Yellow: 435
621-1142-314F	● Red	6		
621-1143-314F	● Green	12		
621-1144-314F	● Yellow	24		



22 mm Heavy Duty Panel Mount Indicators

The 622 Series Heavy Duty LED Panel Mount Indicators are elegantly designed for a high-end aesthetic paired with sturdy construction. These indicators are non-magnetic, corrosion resistant for both indoor and outdoor use, and secured to prevent dirt, dust, and water penetration. Ideal for a variety of applications such as:

- Pilot lights
- Heavy duty vehicles
- Industrial controls
- Manufacturing equipment
- Maintenance and warning indication

MECHANICAL / SPECIFICATIONS

Mounting Hole Size:

0.866" (22 mm)

Max Panel Thickness:

0.394" (10 mm)

Mounting Torque:

7.01 lbs-ft (9.5 Nm)

Operating Voltage:

3 VDC (external resistor required)
6, 12 & 24 VDC
(internal resistor included)

Operating Temp:

-25 °C to +70 °C (-13 °F to 158 °F)

Storage Temp:

-25 °C to +70 °C (-13 °F to 158 °F)

Electrical Connection:

Screw terminals

Housing: Stainless Steel

Nut: Stainless Steel

CERTIFICATIONS & RATINGS

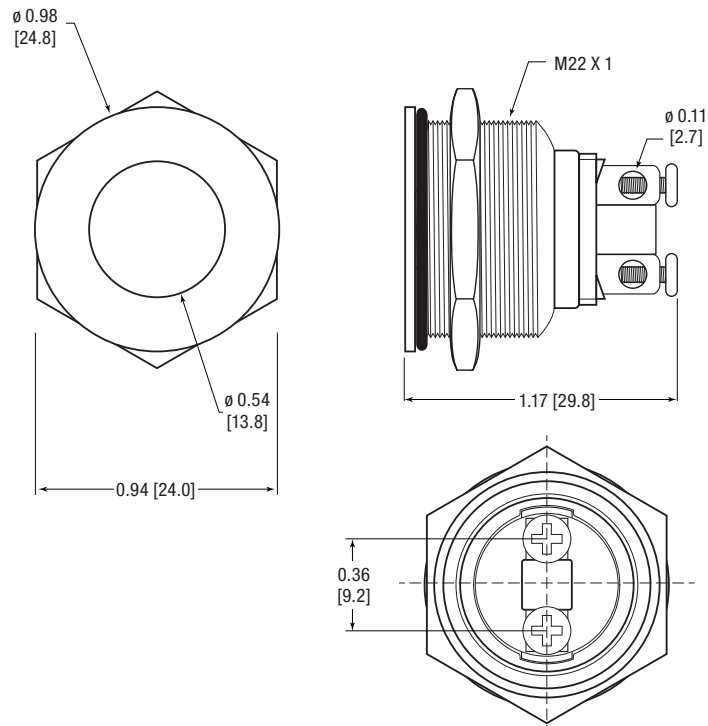
RoHS compliant

IP66/IP67

IK10

NEMA 4X

DIMENSIONS inches [mm]



These indicators are un-polarized

Part Number Guide										RoHS Compliant		
6	2	2	-	1	X	X	X	-	3	0	4	F
							Voltage					
							1	3VDC				
							2	6VDC				
							3	12VDC				
							4	24VDC				

656 SERIES



High Intensity LED Panel Mount Indicators

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

- Flow controls
- Panel lights
- Industrial controls
- Heavy duty vehicles
- Pump panels

MECHANICAL / SPECIFICATIONS

Mounting Hole Size:

0.500" (12.7 mm)

Max Panel Thickness:

0.450" (11.43 mm)

Mounting Torque:

5 in-lbs

Voltage Options:

5 to 125 VDC and 125, 230 VAC
(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

CERTIFICATIONS & RATINGS

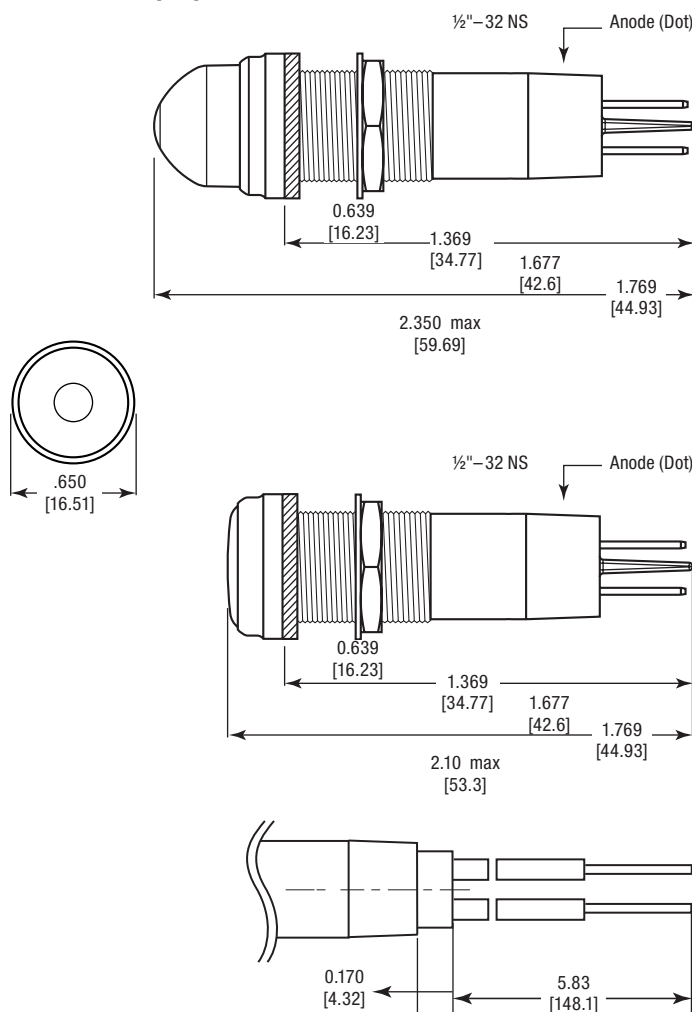
UL1598: wire leads—UL listed;
terminals—UL recognized

NEMA 4X

IP66/67

RoHS compliant—w/6C exemption

DIMENSIONS inches [mm]



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

* single color only

† white nickel plating only

◇ wire leads only

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 Green	5	11 / 8	330/910
656-1322-303F	656-1322-203F	656-1322-304F	656-1322-204F	Yellow Green			320/864
656-1123-303F	656-1123-203F	656-1123-304F	656-1123-204F	Red Green	12	10 / 9	330/910
656-1323-303F	656-1323-203F	656-1323-304F	656-1323-204F	Yellow Green			320/864
656-1124-303F	656-1124-203F	656-1124-304F	656-1124-204F	Red Green	24	11 / 10	330/910
656-1324-303F	656-1324-203F	656-1324-304F	656-1324-204F	Yellow Green			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 Green	5	11 / 8	490/1340
656-3322-303F	656-3322-203F	656-3322-304F	656-3322-204F	Yellow Green			480/430
656-3123-303F	656-3123-203F	656-3123-304F	656-3123-204F	Red Green	12	10 / 9	490/1340
656-3323-303F	656-3323-203F	656-3323-304F	656-3323-204F	Yellow Green			480/430
656-3124-303F	656-3124-203F	656-3124-304F	656-3124-204F	Red Green	24	11 / 10	490/1340
656-3324-303F	656-3324-203F	656-3324-304F	656-3324-204F	Yellow Green			480/430

FLAT 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				
656-1002-303F	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



Watertight Series Panel Mount Indicators

The 657 Series LED Panel Mount Indicators are designed with a highly durable watertight housing. These indicators are designed for a variety of applications such as:

- Control panels
- Boats and heavy duty vehicles
- Military equipment
- Pilot lights
- Industrial panels

MECHANICAL / SPECIFICATIONS

Mounting Hole Size:

0.687" (17.46 mm)

Max Panel Thickness:

0.350" (8.89 mm)

Mounting Torque: 15 in-lbs

Voltage Options:

5, 12, & 24 VDC
(no resistor required)

Operating Temp:

-35 °C to +65 °C (-31 °F to +149 °F)

Storage Temp:

-40 °C to +100 °C (-40 °F to +212 °F)

Electrical Connection:

18 AWG anti-capillary wire

Housing: Polycarbonate (UL 94V-0)

Lens Material:

Polycarbonate (UL 94V-0)

Wire Leads: 6"

Lock Washer:

White Nickel Plated Bronze

Nut: White Nickel Plated Brass

CERTIFICATIONS & RATINGS

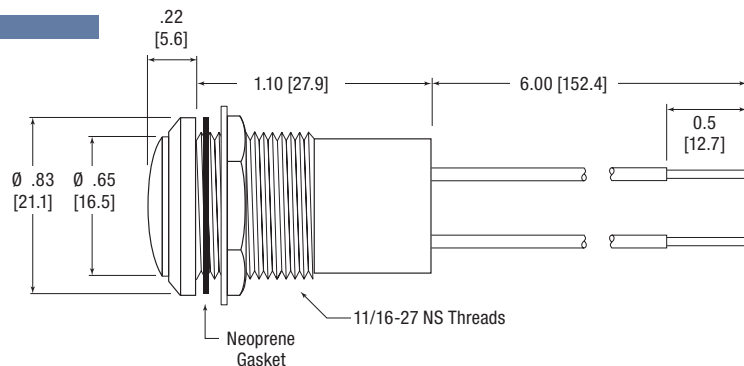
RoHS compliant

NEMA 4X

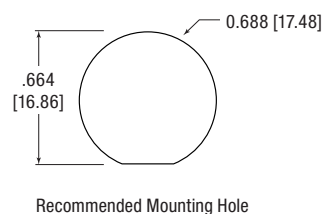
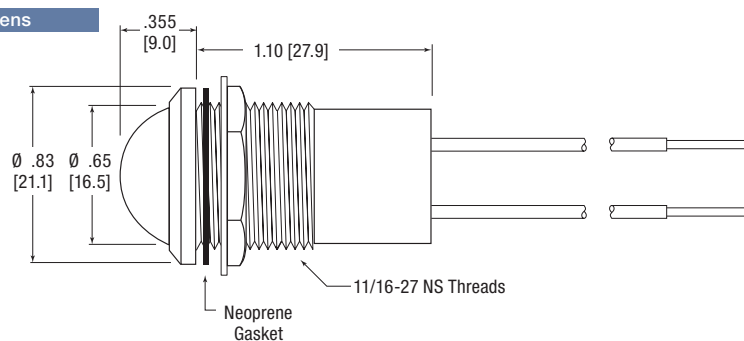
IP67

DIMENSIONS inches [mm]

Flat Lens



Domed Lens



Part Number Guide										RoHS Compliant	
6	5	7	-	X	X	X	-	X	0	3	F
Lens Style		LED Color		Voltage		Lens Color					
Flat	1	○ White	0	0	2 5VDC	1	Tinted Diffused*				
Domed	2	● Red	5	0	3 12VDC	3	White Diffused				
		● Green	6	0	4 24VDC		* will be same as LED color				
		● Yellow	7	0							
		● Blue	8	0							
		● Orange	9	0							

FLAT

Part Number			LED Color	Curr. (mA)	Typical Intensity (mcd)
5 VDC	12 VDC	24 VDC			

WHITE DIFFUSED LENS

657-1002-303F	657-1003-303F	657-1004-303F	○ White	20	150
657-1502-303F	657-1503-303F	657-1504-303F	● Red		150
657-1602-303F	657-1603-303F	657-1604-303F	● Green		160
657-1702-303F	657-1703-303F	657-1704-303F	● Yellow		100
657-1802-303F	657-1803-303F	657-1804-303F	● Blue		75
657-1902-303F	657-1903-303F	657-1904-303F	● Orange		150

TINTED DIFFUSED LENS

657-1502-103F	657-1503-103F	657-1504-103F	● Red	20	650
657-1602-103F	657-1603-103F	657-1604-103F	● Green		1150
657-1702-103F	657-1703-103F	657-1704-103F	● Yellow		550
657-1802-103F	657-1803-103F	657-1804-103F	● Blue		200
657-1902-103F	657-1903-103F	657-1904-103F	● Orange		700

DOMED

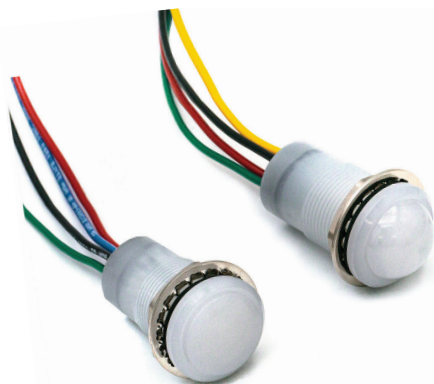
Part Number			LED Color	Curr. (mA)	Typical Intensity (mcd)
5 VDC	12 VDC	24 VDC			

WHITE DIFFUSED LENS

657-2002-303F	657-2003-303F	657-2004-303F	○ White	20	85
657-2502-303F	657-2503-303F	657-2504-303F	● Red		115
657-2602-303F	657-2603-303F	657-2604-303F	● Green		150
657-2702-303F	657-2703-303F	657-2704-303F	● Yellow		115
657-2802-303F	657-2803-303F	657-2804-303F	● Blue		70
657-2902-303F	657-2903-303F	657-2904-303F	● Orange		100

TINTED DIFFUSED LENS

657-2502-103F	657-2503-103F	657-2504-103F	● Red	20	900
657-2602-103F	657-2603-103F	657-2604-103F	● Green		1600
657-2702-103F	657-2703-103F	657-2704-103F	● Yellow		1250
657-2802-103F	657-2803-103F	657-2804-103F	● Blue		250
657-2902-103F	657-2903-103F	657-2904-103F	● Orange		1500



Bi- and Tri-Color Watertight Series Panel Mount Indicators

The 657 Series LED Panel Mount Indicators are designed with a highly durable watertight housing. These indicators are designed for a variety of applications such as:

- Aircraft
- Panel lights
- Boats and heavy duty vehicles
- Industrial panels
- EV charging

MECHANICAL / SPECIFICATIONS

Mounting Hole Size:

0.687" (17.46 mm)

Max Panel Thickness:

0.350" (8.89 mm)

Mounting Torque: 15 in.-lbs

Voltage Options:

10-30 VDC (no resistor required)

Operating Temp:

-40 °C to +85 °C (-40 °F to +185 °F)

Storage Temp:

-40 °C to +100 °C (-40 °F to +212 °F)

Electrical Connection:

18 AWG anti-capillary wire,
Common Cathode

Housing:

Polycarbonate (UL 94V-0)

Lens Material:

Polycarbonate (UL 94V-0)

Wire Leads:

6" — Wire color is the same color
as LED color; Black wire is
common ground

Lock Washer:

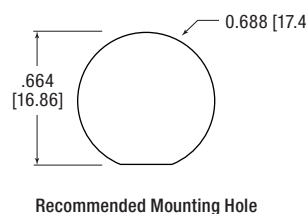
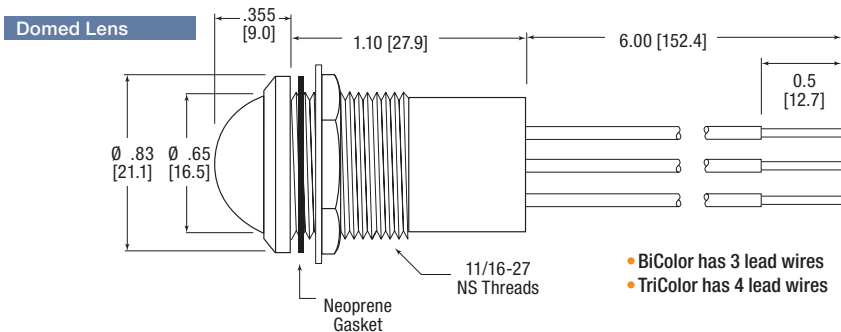
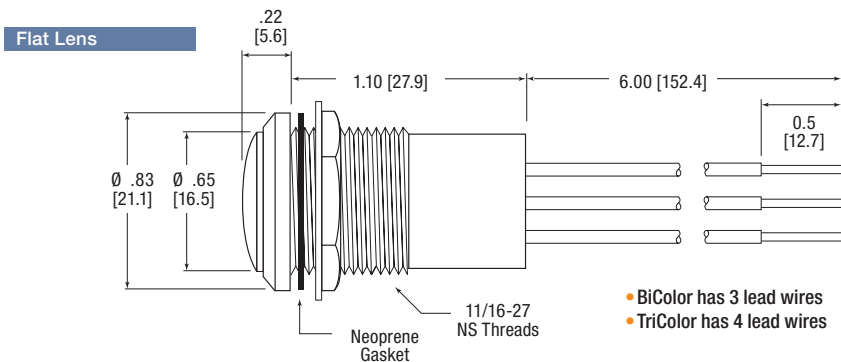
White Nickel Plated Bronze

Nut: White Nickel Plated Brass

CERTIFICATIONS & RATINGS

RoHS compliant
NEMA 4X
IP67

DIMENSIONS inches [mm]



Part Number Guide

RoHS Compliant									
6	5	7	-	X	X	X	-	3	0 3 F
Lens Style		LED Color		Voltage		Lens Color			
Flat	1	Red	4	1	5	10-30 VDC	3	White Diffused	
Domed	2	Green	4	1					
		Blue	4	2					
		Green	4	3					
		Yellow	4	3					
		Red	4	5					
		Yellow	4	5					
		Green	4	6					
		Blue	4	6					
		Red	4	8					
		Green	4	8					
		Blue	4	8					
		Red	4	9					
		Green	4	9					
		Yellow	4	9					

FLAT

Part Number	LED Color	Lens Color	Typ. IF (mA)	Typ. VF (VDC)	Typical Intensity (mcd)
657-1415-303F	Red	White Diffused	20	10-30	270
	Green				515
657-1425-303F	Red				270
	Blue				90
657-1435-303F	Green				515
	Yellow				310
657-1455-303F	Red				270
	Yellow				310
657-1465-303F	Green				515
	Blue				90
657-1485-303F	Red				270
	Green				515
657-1495-303F	Red				270
	Green				515
	Yellow				310

DOMED

Part Number	LED Color	Lens Color	Typ. IF (mA)	Typ. VF (VDC)	Typical Intensity (mcd)
657-2415-303F	Red	White Diffused	20	10-30	255
	Green				500
657-2425-303F	Red				255
	Blue				90
657-2435-303F	Green				500
	Yellow				260
657-2455-303F	Red				255
	Yellow				260
657-2465-303F	Green				500
	Blue				90
657-2485-303F	Red				255
	Green				500
657-2495-303F	Red				255
	Green				500
	Yellow				260



7 mm High Intensity Panel Mount Indicators

The 677 Series LED Panel Mount Indicators are designed for a variety of applications such as:

- Watertight panel indication
- instrumentation
- industrial panels
- power supplies

MECHANICAL / SPECIFICATIONS

Mounting Hole Size:

0.283" (7.2 mm)

Max Panel Thickness:

See part numbers

Mounting Torque:

0.362 lbs/ft (5 kg/cm)

0.217 lbs/ft or 3 kg/cm (Figure 3)

Voltage Options:

6, 12 & 24 VDC (no resistor required)

Operating Temp:

-20 °C to +75 °C (-4 °F to +167 °F)

Storage Temp:

-40 °C to +100 °C (-40 °F to +212 °F)

Electrical Connection:

Solder terminals and 6" wire leads

HOUSING

Protruding position:

Brass—Chrome or Black Plated

Recessed position:

Brass—Chrome Plated

Internal position: Polycarbonate

Terminals: Copper—Nickel Plated

Lock Washer: Iron—Nickel Plated

Nut: Brass—Nickel Plated

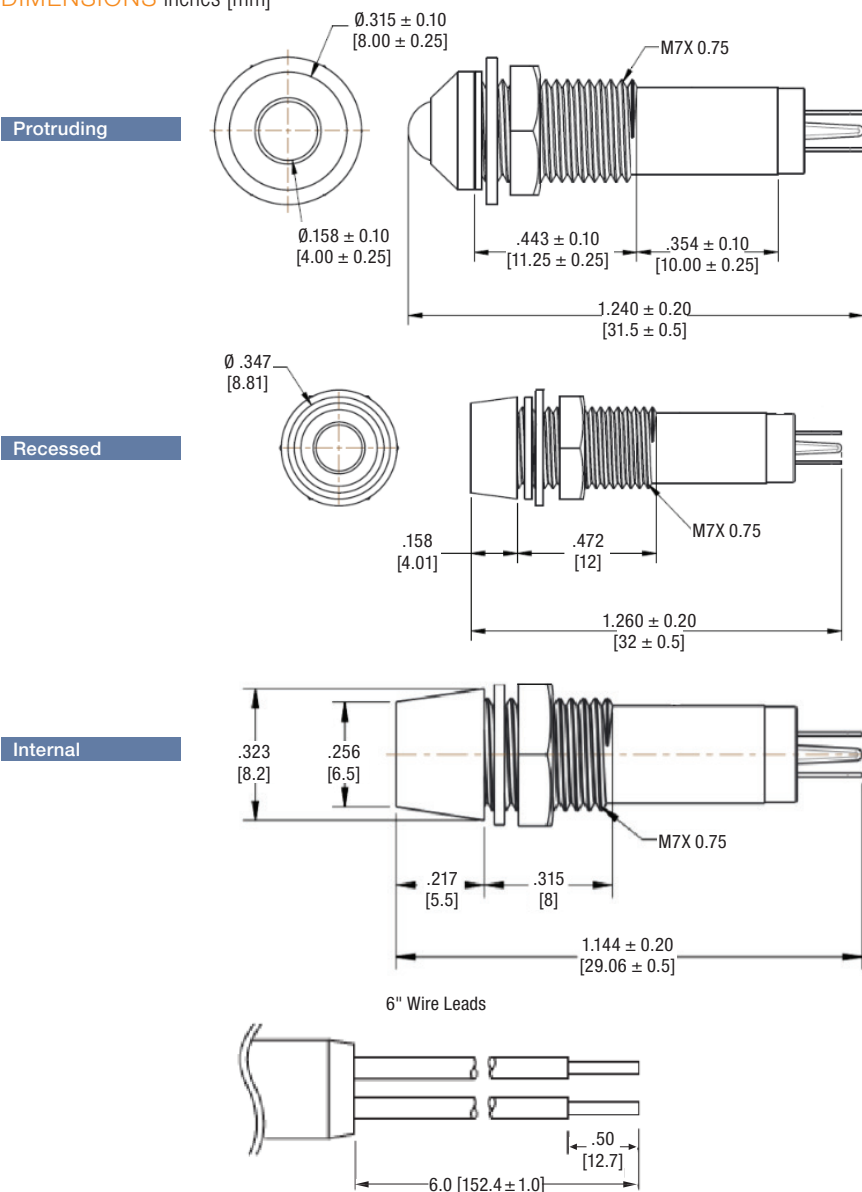
CERTIFICATIONS & RATINGS

RoHS compliant

NEMA 4X (with gasket)

IP66 (with gasket)

DIMENSIONS inches [mm]



These indicators are un-polarized

PROTRUDING LENS

Chrome Plated Brass Housing		Black Plated Brass Housing		Color	Voltage (V DC)	Current (mA)	Intensity Typ. (mcd)	Panel Thickness
Terminals	Wire Leads	Terminals	Wire Leads					
677-1112-321F	677-1115-321F	677-1122-321F	677-1125-321F	Red	6	15	825	0.265" (6.75 mm)
677-1212-322F	677-1215-322F	677-1222-322F	677-1225-322F	Green			4135	
677-1312-323F	677-1315-323F	677-1322-323F	677-1325-323F	Orange			560	
677-1412-324F	677-1415-324F	677-1422-324F	677-1425-324F	Blue			700	
677-1112-331F	677-1115-331F	677-1122-331F	677-1125-331F	Red	12		825	
677-1212-332F	677-1215-332F	677-1222-332F	677-1225-332F	Green			4135	
677-1312-333F	677-1315-333F	677-1322-333F	677-1325-333F	Orange			560	
677-1412-334F	677-1415-334F	677-1422-334F	677-1425-334F	Blue			700	
677-1112-341F	677-1115-341F	677-1122-341F	677-1125-341F	Red	24		825	
677-1212-342F	677-1215-342F	677-1222-342F	677-1225-342F	Green			4135	
677-1312-343F	677-1315-343F	677-1322-343F	677-1325-343F	Orange			560	
677-1412-344F	677-1415-344F	677-1422-344F	677-1425-344F	Blue			700	

RECESSED LENS

Chrome Plated Brass Housing		Color	Voltage (V DC)	Current (mA)	Intensity Typ. (mcd)	Panel Thickness
Terminals	Wire Leads					
677-2112-321F	677-2115-321F	Red	6	15	925	0.336" (8.50 mm)
677-2212-322F	677-2215-322F	Green			4135	
677-2312-323F	677-2315-323F	Orange			600	
677-2412-324F	677-2415-324F	Blue			730	
677-2112-331F	677-2115-331F	Red	12		925	
677-2212-332F	677-2215-332F	Green			4135	
677-2312-333F	677-2315-333F	Orange			600	
677-2412-334F	677-2415-334F	Blue			730	
677-2112-341F	677-2115-341F	Red	24		925	
677-2212-342F	677-2215-342F	Green			4135	
677-2312-343F	677-2315-343F	Orange			600	
677-2412-344F	677-2415-344F	Blue			730	

INTERNAL LENS - POLYCARBONATE HOUSING

Part Number	Part Number	Color	Voltage (V DC)	Current (mA)	Intensity Typ. (mcd)	Panel Thickness
Terminals	Wire Leads					
677-3132-321F	677-3135-321F	Red	6	15	1370	0.187" (4.75 mm)
677-3232-322F	677-3235-322F	Green			5500	
677-3332-323F	677-3335-323F	Orange			1280	
677-3432-324F	677-3435-324F	Blue			1200	
677-3132-331F	677-3135-331F	Red	12		1370	
677-3232-332F	677-3235-332F	Green			5500	
677-3332-333F	677-3335-333F	Orange			1280	
677-3432-334F	677-3435-334F	Blue			1200	
677-3132-341F	677-3135-341F	Red	24		1370	
677-3232-342F	677-3235-342F	Green			5500	
677-3332-343F	677-3335-343F	Orange			1280	
677-3432-344F	677-3435-344F	Blue			1200	

PART NUMBER GUIDE												ROHS COMPLIANT
6	7	7	-	X	X	X	X	-	3	X	X	F
				LENS STYLE				TERMINATION		LENS COLOR		
				Protruding	1			2	Solid Terminals	1	Red	
				Recessed	2			5	Wire Leads	2	Green	
				Internal	3					3	Orange	
										4	Blue	
				LED COLOR		PLATING				VOLTAGE		
				Red	1	1	Chrome			2	6VDC	
				Green	2	2	Black			3	12VDC	
				Orange	3					4	24VDC	
				Blue	4							

678 SERIES



8 mm High Intensity Panel Mount Indicators

The 678 Series LED Panel Mount Indicators are designed for a variety of applications such as:

- Security systems
- Heavy duty vehicles
- Industrial panels
- Instrumentation

MECHANICAL / SPECIFICATIONS

Mounting Hole Size:

0.335" (8.5 mm)

Max Panel Thickness:

see part number table

Mounting Torque:

0.362 lbs/ft (5 kg/cm) torque

Operating Voltage:

6, 12 & 24 VDC (no resistor required)

Operating Temp:

-20 °C to +75 °C (-4 °F to 167 °F)

Storage Temp:

-40 °C to +100 °C (-40 °F to 212 °F)

Electrical Connection:

Solder terminals or 6" wire leads

HOUSING

Protruding:

Chrome plated brass;

Internal position: Polycarbonate

Terminals: Copper — Nickel Plated

Lock Washer: Iron — Nickel Plated

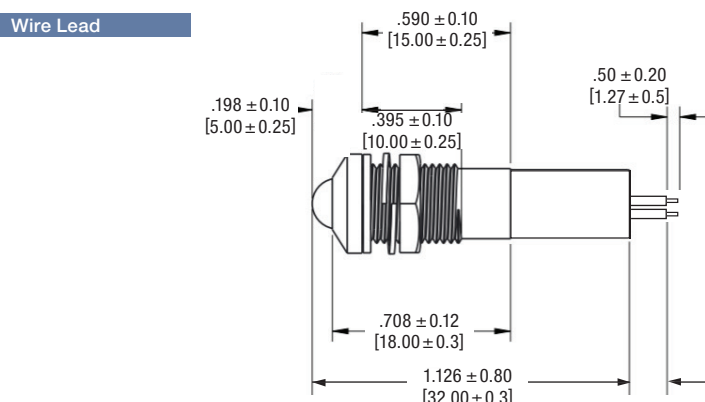
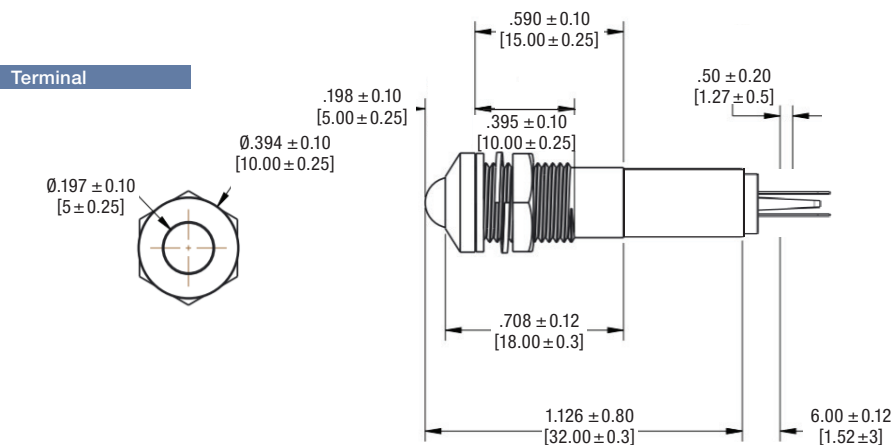
Nut: Brass — Nickel Plated

CERTIFICATIONS & RATINGS

RoHS compliant

IP66 (protruding type only)

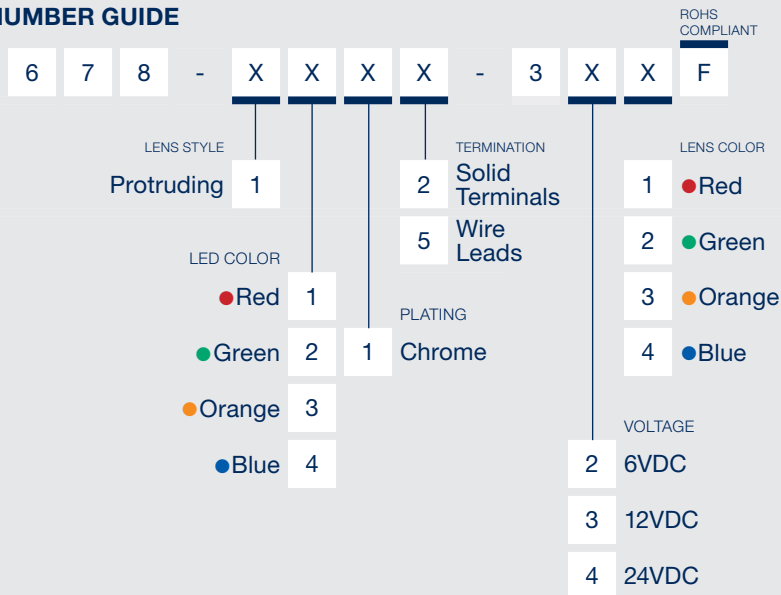
DIMENSIONS inches [mm]



WHITE NICKEL

Part Numbers	Part Numbers	Color	Voltage (V DC)	Current (mA)	Typical Intensity (mcd)	Viewing Angle	LED Position	Fig. #	Mount Style	Panel Thickness
Terminals	Wire Leads									
678-1112-321F	678-1115-321F	Red	6	15	320	20	Protruding	3	Lock washer & nut	.3158" (8.0 mm)
678-1212-322F	678-1215-322F	Green			2920					
678-1312-323F	678-1315-323F	Orange			490					
678-1412-324F	678-1415-324F	Blue			220					
678-1112-331F	678-1115-331F	Red	12		320					
678-1212-332F	678-1215-332F	Green			2920					
678-1312-333F	678-1315-333F	Orange			490					
678-1412-334F	678-1415-334F	Blue			220					
678-1112-341F	678-1115-341F	Red	24		320					
678-1212-342F	678-1215-342F	Green			2920					
678-1312-343F	678-1315-343F	Orange			490					
678-1412-344F	678-1415-344F	Blue			220					

PART NUMBER GUIDE





9 mm High Intensity Panel Mount Indicators

The 679 Series LED Panel Mount Indicators are designed for a variety of applications such as:

- Watertight panel indication
- Instrumentation
- Control panels
- Navigation
- Industrial

MECHANICAL / SPECIFICATIONS

Mounting Hole Size:

0.374" (9.5 mm)

Max Panel Thickness:

0.374" (9.5 mm);
with Gasket: 0.318" (8.0 mm)

Mounting Torque:

0.362 lbs/ft (5 kg/cm)

Voltage Options:

6, 12 & 24 V DC (no resistor required)

Operating Temp:

-20 °C to +75 °C (-4 °F to +167 °F)

Storage Temp:

-40 °C to +100 °C (-40 °F to +212 °F)

Electrical Connection:

Solder terminals, 6" wire leads

Housing:

Brass—Chrome or Black Plated

Terminals: Copper—Nickel Plated

Lock washer: Iron—Nickel Plated

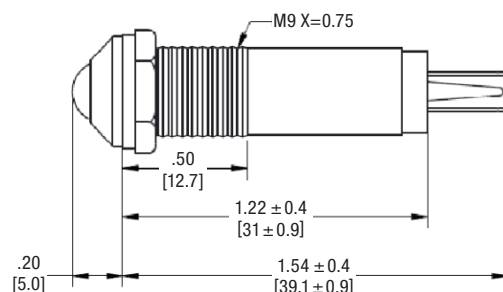
Nut: Brass—Nickel Plated

CERTIFICATIONS & RATINGS

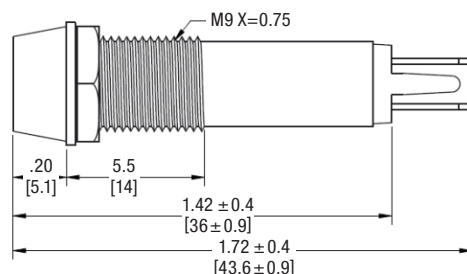
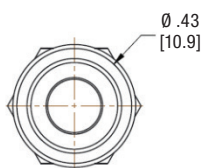
RoHS compliant
NEMA 4X (with gasket)
IP66 (with gasket)

DIMENSIONS inches [mm]

Protruding

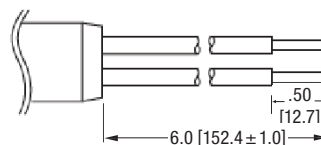


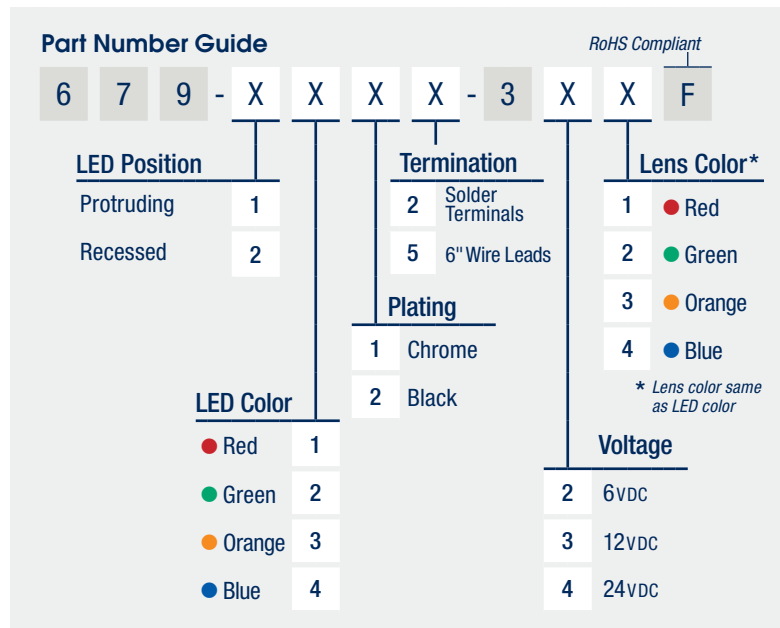
Recessed



These indicators are un-polarized

6" Wire Leads





PROTRUDING LED

Part Number / Termination		Color	Voltage (V DC)	Current (mA)	Intensity Typ. (mcd)	Plating	
Solder Terminals	6" Wire Leads						
679-1112-321F	679-1115-321F	Red	6	15	485	Chrome	
679-1212-322F	679-1215-322F	Green			5870		
679-1312-323F	679-1315-323F	Orange			1570		
679-1412-324F	679-1415-324F	Blue			215		
679-1112-331F	679-1115-331F	Red	12		485		Chrome
679-1212-332F	679-1215-332F	Green			5870		
679-1312-333F	679-1315-333F	Orange			1570		
679-1412-334F	679-1415-334F	Blue			215		
679-1112-341F	679-1115-341F	Red	24		485	Black	
679-1212-342F	679-1215-342F	Green			5870		
679-1312-343F	679-1315-343F	Orange			1570		
679-1412-344F	679-1415-344F	Blue			215		
679-1122-321F	679-1125-321F	Red	6		485		Black
679-1222-322F	679-1225-322F	Green			5870		
679-1322-323F	679-1325-323F	Orange			1570		
679-1422-324F	679-1425-324F	Blue			215		
679-1122-331F	679-1125-331F	Red	12		485	Black	
679-1222-332F	679-1225-332F	Green			5870		
679-1322-333F	679-1325-333F	Orange			1570		
679-1422-334F	679-1425-334F	Blue			215		
679-1122-341F	679-1125-341F	Red	24		485		Black
679-1222-342F	679-1225-342F	Green			5870		
679-1322-343F	679-1325-343F	Orange			1570		
679-1422-344F	679-1425-344F	Blue			215		

RECESSED LED

Part Number / Termination		Color	Voltage (V DC)	Current (mA)	Intensity Typ. (mcd)	Plating	
Solder Terminals	6" Wire Leads						
679-2112-321F	679-2115-321F	Red	6	15	775	Chrome	
679-2212-322F	679-2215-322F	Green			5870		
679-2312-323F	679-2315-323F	Orange			1570		
679-2412-324F	679-2415-324F	Blue			270		
679-2112-331F	679-2115-331F	Red	12		775		Chrome
679-2212-332F	679-2215-332F	Green			5870		
679-2312-333F	679-2315-333F	Orange			1570		
679-2412-334F	679-2415-334F	Blue			270		
679-2112-341F	679-2115-341F	Red	24		775	Black	
679-2212-342F	679-2215-342F	Green			5870		
679-2312-343F	679-2315-343F	Orange			1570		
679-2412-344F	679-2415-344F	Blue			270		
679-2122-321F	679-2125-321F	Red	6		775		Black
679-2222-322F	679-2225-322F	Green			5870		
679-2322-323F	679-2325-323F	Orange			1570		
679-2422-324F	679-2425-324F	Blue			270		
679-2122-331F	679-2125-331F	Red	12		775	Black	
679-2222-332F	679-2225-332F	Green			5870		
679-2322-333F	679-2325-333F	Orange			1570		
679-2422-334F	679-2425-334F	Blue			270		
679-2122-341F	679-2125-341F	Red	24		775		Black
679-2222-342F	679-2225-342F	Green			5870		
679-2322-343F	679-2325-343F	Orange			1570		
679-2422-344F	679-2425-344F	Blue			270		



550, 551, 552, 553, 555, 561, 564, 566, 567, 568, 569, 570 & 571 SERIES

CBI® Through Hole Discrete & Housed LEDs

The widest variety of configurations including:

- Right angle, vertical & horizontal arrays in single, bi, tri and quad blocks
- 2mm, 3mm, 4mm, 5mm & Rectangular LEDs
- Perfect for direct view or backlighting applications
- Single & bi-color, diffused, water-clear, tinted, super-bright & high efficiency
- Over 2500 variations, with custom LED placement available
- All visible colors of the spectrum available (from blue to red)



597, 598 & 599 SERIES

microLED® Surface Mount LEDs

Ten different package sizes including:

- 0402, 0404, 0603, 0606, 0805, 1206, 1208, 1210, 1515, 2827, 3528 / PLCC & 3735
- Single color, bi color, tri color in top, right angle, and reverse mount LED configurations
- Latest AlInGaP & InGaN technology
- Cost competitive pricing



591, 592, 593, 594, 595 & 596 SERIES

Prism® Series Right Angle SMDs

- Fully SMD process compliant part (taped and reeled / pick and place / reflow oven compatible)
- 1.6mm, 2mm & 3mm LEDs
- Can withstand higher temp RoHS solder process and eliminates need for secondary optics or separate process
- Available in standard and low current versions
- Available with square or round lens
- Packaged in single, bi & tri level configurations



515 SERIES

Optopipe® Light Pipes for use with microLED® SMDs

- Light pipes act as a conduit for directing light from LED to front panel viewing
- For PCB and panel mount press-fit mounting
- Right angle and vertical versions available in more than 400 sizes and shapes
- Provides ESD protection, operating / storage temperature -30°C to +100°C
- Allows edge lighting around components such as SFP assemblies and RJ45 jacks
- UL 94V-0 Compliant



249, 507, 556, 557, 558, 559, 605, 606, 607, 608, 609, 610, 612, 620, 621, 622, 623, 630, 653, 654, 655, 656, 657, 658, 675, 676, 677, 678, 679, 680 & 682 SERIES

LED Panel Mount Indicators Plastic & Metal Housings

- Incorporating the latest LED technology in a tamper-proof metal housing enclosures
- Variety of mounting hole diameters from 0.156" (3.9mm) - 1.18" (30 mm)
- Operating voltages 2-72 VDC, 125 and 230 VAC
- Some feature a water-tight seal to NEMA 4X / IP66/67 and daylight viewability
- Available in: red, green, yellow, orange, blue, cyan and white
- 556 & 656 series are UL certified
- RoHS compliant, some with 6C exemptions
- All metal and some plastic housing use lock washer and nut for secure mounting while our 558, 559 and some 600 series use a snap-in plastic housing



585 & 586 SERIES

Based LED Bulbs

- Replaces traditional miniature incandescent bulbs with rugged long-lasting and energy-efficient LEDs
- Base styles including: T 1 3/4 Midget Flange, Wedge Base and Bi-Pin, T 3 1/4 Mini-Bayonet and Mini-Screw, T2 Telephone Slide and 15mm Bayonet
- Voltages from 6, 14 and 28 VDC, 6-36 VDC multi-voltage operation and 125 VAC with non-polarized versions available
- Colors include: red, green, yellow, blue and white while our 558, 559 and some 600 series use a snap-in plastic housing



Military & Relampable Panel Mount Indicators

- Military - LH, LC and MS designations and QPL listed
- Incandescent or neon, designed to mount into 15/32", 11/16" and 1" clearance holes
- Feature water-tight and oil-tight, edge lighting, press-to-test, and dimmable semi or total blackout
- Consult Dialight's Military Cross Reference for specific part number
- Commercial - Incandescent or neon indicators UL recognized designed to mount into 15/32", 11/16" and 1" clearance holes
- Lenses are available in flat, dome, torpedo and faceted



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SEPTEMBER 2022

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