SPECIFICATIONS

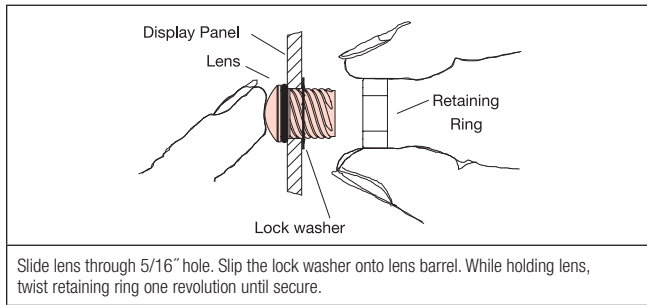|	
MATERIAL	Lens - Polycarbonate Lock washer - FH Steel, Nickel plate Retaining ring - Thermoplastic U.L. 94 V0 Rated Seal - EPDM
DESIGN	5mm low profile lens with fresnel rings.
MOUNTING	Mounts through front of panel. Retaining ring secures the assembly to panel. CMC 441 & CMS 442 mounts through a 5/16″ (8.0mm) hole on 1/2″ centers. Panel thickness 1/32″ to 1/8″.
TEST DATA	Assembly tested for: Temperature cycle -40°C to +105°C, Water, Ice, Shock/vibration up to 6g at 2000Hz, Solar & UV. Tests conducted by Consolidated Laboratories.

U.S. & Foreign Patents Issued and Pending

EASY THREE STEP PANEL ASSEMBLY

Slide lens through 5/16″ hole. Slip the lock washer onto lens barrel. While holding lens, twist retaining ring one revolution until secure.

VERSATILITY
CLIPLITE® lenses provide a method of viewing PCB mounted LEDs on a display panel. Designed to accommodate 5mm through-hole LEDs. Permits LED viewing angles of up to 180 degrees. Lenses are available in six colors.

BRIGHTNESS
CLIPLITE® lenses enhance the direct viewing of PCB mounted LEDs. Mono, multi-color, infrared, and photo detection devices can be displayed in this manner. LED brightness levels can range from 20 to 40,000mcd.
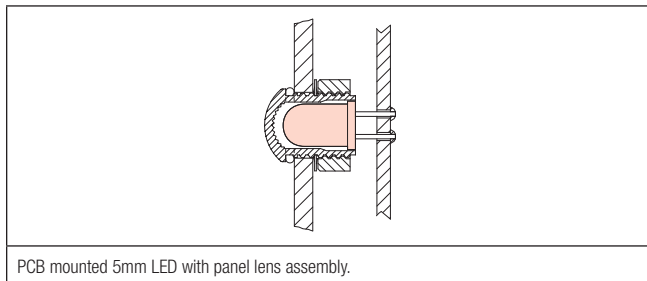
APPLICATION
CLIPLITE® lenses permit the panel display of PCB mounted LED without its physical attachment to front panel. Properly installed, the assembly exceeds NEMA 4 for water, ice and dust conditions. Additionally tested for U.V., solar, temperature cycling, shock and vibration. Also provides circuit protection from ESD.

INSTALLATION
CLIPLITE® 5mm lenses are easily installed. Simply slip lens through a 5/16″ panel opening, slide lock washer onto lens barrel and twist on retaining ring. PCB mounted LED can then slide in and out of the lens without physical attachment to display panel. If overtightened, retaining ring is designed to slip back into previous thread. Secure by retightening ring.

LENS ASSEMBLY WITH PCB MOUNTED LEDs

PCB mounted 5mm LED with panel lens assembly.

ORDERING CODES

CMC 441 RTP

MODEL
CMC 441 (Standard)
CMS 442 (Water Tight)

CMC 441 ASSEMBLY CONTAINS
Lens
Lock washer
Retaining ring

CMS 442 ASSEMBLY CONTAINS
Lens w/Seal (Exceeds NEMA 4)
Lock washer
Retaining ring

COLOR
RTP	Red Transparent
ATP	Amber Transparent
GTP	Green Transparent
BTP	Blue Transparent
YTP	Yellow Transparent
CTP	Clear Transparent

OUTLINE DRAWING / RECOMMENDED LEDs

CMC 441 (Assembly)
STANDARD LENS
w/Lockwasher & Retainer

.340 (8.64mm) .300 (7.62mm)
.100 (2.54mm) .330 (8.38mm)

CMS 442 (Assembly)
WATER TIGHT SEAL
w/Lockwasher & Retainer

Water Tight Seal
.340 (8.64mm) .300 (7.62mm)
.140 (3.56mm) .290 (7.37mm)

LOCK WASHER
.430 (10.92mm)
.03 (0.76mm)

RETAINING RING
.370 (9.40mm)
.426 (10.82mm)
.150 (3.81mm)

RECOMMENDED LEDs
.030
.230 .100
.340 .220 ±.010