MOISTURE SEALED LOW PROFILE LENSES FOR LEDs

U.S. & Foreign Patents Issued and Pending

VERSATILITY

CLIPLITE® moisture sealed lenses, installed in a display panel, provide a moisture seal effective against splash and drip conditions. The lens can be used with either circuit board mounted or panel mounted LEDs. For PCB mounting applications the lens remains attached to the display or panel door while the LEDs are fixed to the PCB. The lens is ideal when used with the CONXRITE® connector for mounting the LED directly to the display panel.

BRIGHTNESS

CLIPLITE® lenses utilize fresnel rings to increase apparent brightness and viewing angle up to 180 degrees with either diffused or nondiffused LEDs.

PROTECTION

CLIPLITE® tests show it is an effective moisture seal in splash and drip conditions. In addition, the lens helps prevent IC failures caused by electrostatic discharge (ESD). A CLIPLITE® mounted LED guards components from ESD up to 16 kV while affording the LED physical protection.
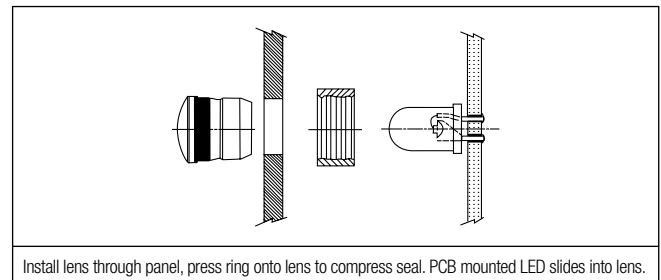
INSTALLATION

The CLIPLITE® lens is inserted through panel opening, retaining ring is then pressed into place compressing the seal. PCB mounted LEDs slide easily into lens allowing simple insertion or removal of the PCB. Panel mounting of the LED is accomplished with the CONXRITE® connector which also serves to compress the moisture sealing ring.

SPECIFICATIONS

MATERIAL	Lens - Polycarbonate Ring - Polypropylene, Seal - J-Von (U.L. Listed Materials)
DESIGN	Low profile lenses with moisture seal.
TESTING	Environmental testing performed by Consolidated Labs, Inc. for moisture sealing, shock, vibration and standard operating temperatures. Meets NEMA 3 standards.
MOUNTING	Mounts through front of panel, compression of the seal is accomplished by pressing the retaining ring or CONXRITE® connector in place. 5mm (CMS 322), mounts in a 9/32″ (7.2mm) hole on 3/8″ centers. Panel thickness 1/32″ to 1/8″. Hole should be deburred but not chamfered. See specs. on page 19 for use with CNX connectors. For add security use RNG 268.

PANEL MOUNTED LENS WITH PCB MOUNTED LED

Install lens through panel, press ring onto lens to compress seal. PCB mounted LED slides into lens.
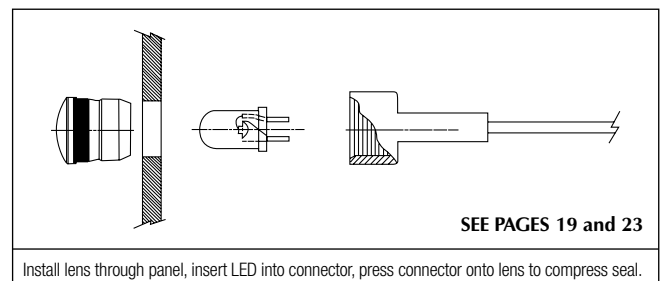
ORDERING CODES

CMS 322 RTP

MODEL
CMS 322 (5mm) Low Profile Fresnel Lens with moisture seal
RNG 268 (5mm) Retaining Ring

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

PANEL MOUNTED LENS WITH CONXRITE® CONNECTOR

SEE PAGES 19 and 23

Install lens through panel, insert LED into connector, press connector onto lens to compress seal.

OUTLINE DRAWING

CMS 322 (5mm)

.30 DIA. (7.62mm)
.21 ID (5.33mm)
.28 DIA. (7.11mm)
.07 (1.78mm)
.015 (.38mm)
.33 (8.38mm)

RNG 268 (5mm)

.36 DIA. (9.14mm)
.27 DIA. (6.86mm)
.165 (4.19mm)

RECOMMENDED LEDs

5mm

.230 (5.84mm)
.340 (8.64mm)

SEE PAGE 31-32