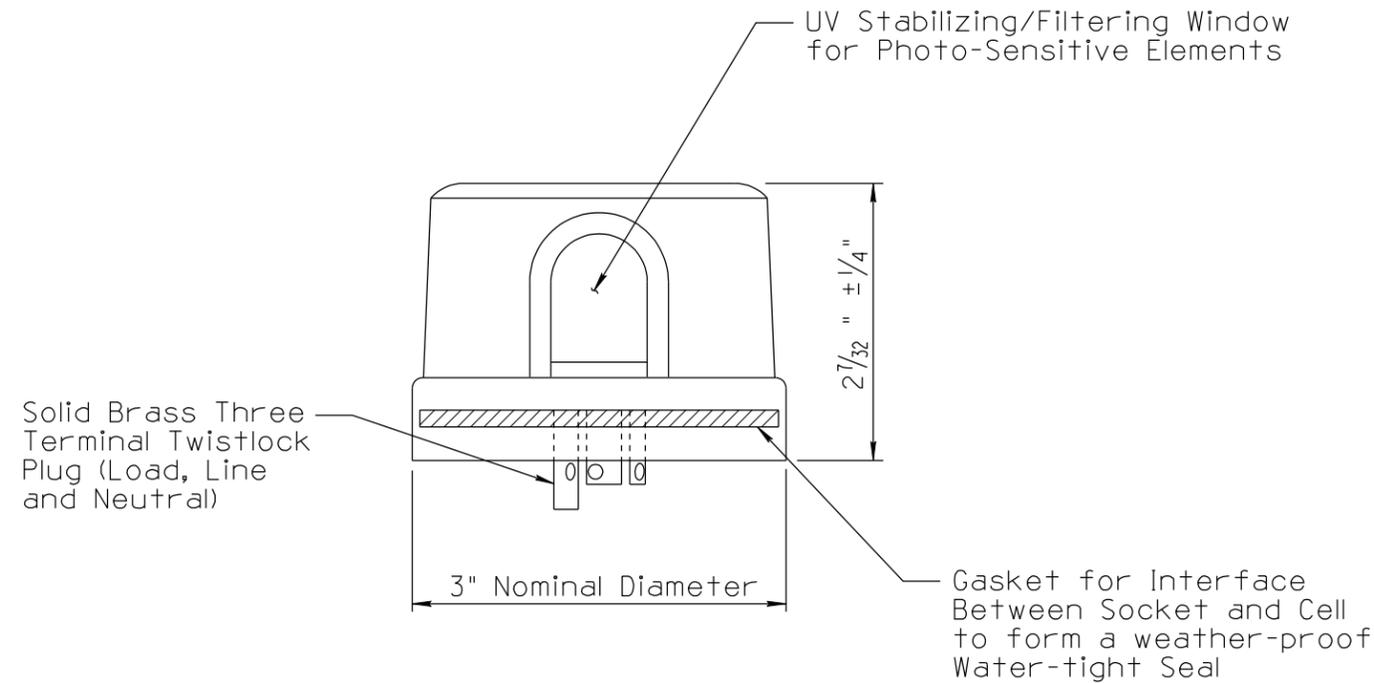


NO	1	2010 EDITION	DESCRIPTION OF REVISIONS	MADE BY	C. COLE	DATE	03/10	NO	3	4
NO	2									
NO	3									
NO	4									



NOTES:

1. See Specifications and other 3 Series drawings for additional requirements.
2. The Photo Electric Cell (PEC) with a basket guard shall be used at load center cabinets and control cabinets in conjunction with auxiliary lighting contractors for controlling street lighting loads.
3. PEC shall comply with all current applicable requirements of ANSI C136.10 "Standard for physical and electrical interchangeability of photocontrol devices, plugs and mating receptacles used in roadway lighting equipment".
4. The photo-sensitive element type shall be either sealed Cadmium Sulfide (CdS) or Silicon (Si) Sensor. A time delay feature shall be incorporated to prevent nighttime turn OFF caused by transient lighting (e.g. lightning or headlights). The surge protection element shall be MOV type. The fail condition shall be Fail-ON (normally closed relay).
5. PEC covers and bases shall be constructed of durable polymer materials, heat resistant and UV stabilized. Covers shall be opaque, except for the window. The window will be located on the side, allowing for north-facing orientation. Colors will conform to ANSI C136.10. The cover-to-base interface shall be gasketed to prevent dust and moisture intrusion. Contacts shall be 3-prong locking type, and shall be made of solid brass. The PEC must be impact-resistant, and shall withstand a 3 foot (0.9 meter) drop to a concrete floor without damage.
6. The PEC shall meet the following mechanical and performance criteria, per the table shown on this sheet.

Line Voltage Operating Range	105-305 VAC at 50/60Hz
Operation Temperature Range	-40 to 158°F (-40 to 70°C)
Nominal Dimensions	2.2" H x 3.1" Dia
Orientation Type	North Sky
Turn ON *	0.8-1.8 fc @ 120VAC
Nominal Turn OFF: Turn ON Ratio *	1.5
Turn OFF Max *	3.0 fc
Turn Off Time Delay	2-5 Sec
Relay Type	SPST; Normally Closed
Max Load Rating	1000W Incandescent, 1800V-A HID Ballast
Min Life at Rated Load	5000 ON/OFF Cycles
Surge Protection Min	MOV Type; 160 Joules, 6500 Amps
Relay Contact Chatter (Max) at Turn OFF	5 nsec
ANSI C136.10 Standard Cover Color **	Blue

* Shall Not Change with Changes in Line Voltage
 ** Gray is Acceptable

NOT TO SCALE

DESIGN APPROVED	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC SIGNALS AND LIGHTING STANDARD DRAWINGS	REVISION	03/10
SIGNATURE		DRAWING NO.	T.S. 3-4
APPROVED FOR DISTRIBUTION	PHOTO ELECTRIC CELL MOUNTING DETAILS	SHEET NO.	2 OF 2
ON FILE			