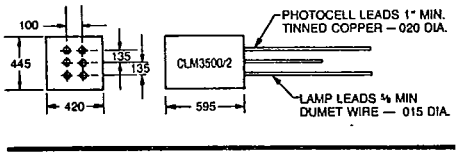
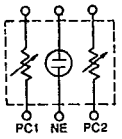
CLM3500/2

Neon Photoconductor Isolators



CLM3500/2 — Similar to the CLM3500 but features 2 isolated photocells output. Application: Tandem connection for 2 channel control and remote indication. Fast photocell response with minimum resistance modulation for AC to digital conversion and photochopper application.



TECHNICAL DATA

NEON LAMP	CHARACTERISTICS	TEST CONDITIONS	CLM 3500/2 Min.	Typ.	Max.	UNITS
RATING (4)				105-125		volts AC
V_I (1)	Initial breakdown			135		volts DC
V_m	Initial maintaining			75		volts DC
PHOTOCELL V_{MAX}	Cell voltage				100	volts DC or PAC
P	Power dissipation	25°C			60	milliwatts
PHOTOMOD R_{ON} (1)(2)(5)	On resistance				500	ohms
R_{OFF} (5)	Off resistance	10 sec. after $I_F \rightarrow 0$ 4 VDC on cell			1000	ohms
t_R (3)	Rise time	time to 63% of final condition at I_F = 1.2mA		16		milliseconds
t_D	Decay time	Time to 100K		350		milliseconds
V_{BD}	Isolation		1600			volts DC or PAC
dRc/dt	Cell temperature coefficient	$I_F \geq$ 1mA		1		%/°C

Absolute Maximum Ratings:

Temperature Storage — 40°C to 75°C Operating — Derate power to 0 at 75°C

NOTES:
(1) Data taken after > 96 hrs. dark + 1 min. ON.
(2) 120V through 47K Ω series resistor applied to lamp.
(3) Lamp currents below 1mA are not recommended.
(4) Max. initial breakdown voltage 95V AC. For DC operation use mon. of 150V DC.
(5) Each element

FASCO INDS/ SENISYS