

Signalite

application

news

INDEX OF APPLICATIONS APPEARING IN SIGNALITE APPLICATION NEWS

All of the articles and letters which have appeared in the *Signalite Application News* since the first issue have been listed in this comprehensive index. For your convenience each item is listed with the volume and number of the issue as well as the consecutive page number. A limited number of back issues are still available.

	Vol.	No.	Page
AC signals, sensing, incoming	7	3	347
Air Punch Sequence Indicator Circuit	9	2	404
Alarm Current	5	1	219
Alarm Delay Circuit	8	1	357
Alarm Intruder	5	4	249
Alarm Intruder	5	5	261
Alarm Intruder	6	2	283
Alarm Memory System	2	6	95
ANI for Small Step by Step Offices	5	5	253
Antenna, Longwire, Trigger for	9	1	394
Annunciator Failure Noted	9	3	417
Annunciator Scanning	2	2	50
Another Phase Sequence Indicator	9	5	441
Appliance Leakage Checker	2	2	46
Application of Neon Glow Lamps in Alpha Numerical Display	5	4	245
Arc Discharge Device Catalogue	9	4	431
Arc Suppressors Lengthen Contact Life	1	1	2
Are You There?	9	1	394
Audio Alarm, Gas Flame	4	2	180
Automatic Electric Laboratories	4	1	161
Automatic Zero Setting of Sequence Generator	9	1	392
Batteries, Pulse Charging	9	3	416
Bell Tapping, Prevention of	3	1	101
Bell Telephone Laboratories	5	5	253
Bending Leads of Neon Glow Lamps	7	2	331
Bias Regulator and Pilot Light	1	2	15
Bingo	7	3	343
Blinker, Automatic, for Dark Hours	6	4	311
Blinker, Halloween "Pumpkin Eyes"	1	3	26
Blinker, No Smoking Sign	7	3	344
Blinkers, Roadside Warning	1	3	26

SUPPLEMENT NUMBER 4



Signalite, A division of General Instrument
1933 Heck Avenue, Neptune, N.J. 07753

Calibrator, Oscilloscope	3	2	121
Calibrator, Voltage-Current	3	2	127
Call, Priority, Low Cost	6	4	310
Call, Priority, Low Cost	7	1	322
Capacitor, Locating Leaky	2	3	63
Capacitor Tester	5	5	262
CATV Protection, Surge Currents	9	6	445
Checking RF Transmitter Ground	6	1	275
Choppers-Modulator, Photocell	2	2	38
Chopper, Neon-Photocell, typical circuit	7	1	317
Circuit and Component Protection	9	4	425
Circuit Component Uses	7	1	318
Circuit Protection and Switching, Guide to High Energy Devices for	9	4	422
Circuitry, Typical for Application of Neon Glow Lamps	7	1	313
Clairex Corporation	4	2	173
Clock, Power Failure Indicator	9	2	404
Close Tolerance Neons	3	2	124
Comm Gap Fast Acting, Low Voltage Surge Arrester	8	3	383
Comparison Cold Cathode Tubes vs. Semiconductors	1	2	5
Complementary Use of Neons and Transistors	2	5	80
Computer Application, Small	1	3	24
Computer Diagnosing With Neons	7	3	340
Construction, Operation and General Characteristics Neon Glow Lamps	6	3	289
Contact Sensing System for Precision Machining	9	1	388
Control, TV, Remote, Motorless	8	1	349
Coupling Element for DC Amplifiers	2	3	59
Crowbar, Electronic	3	4	155
Darkroom Metronome	6	3	299
Decimal to Binary Translation	3	3	131
Decision Maker	9	5	442
Decoding, Binary to Decimal	3	3	131
Design, Operation & Application of Neon Glow Lamps Part I: Construction, Operation & Operational Characteristics	6	3	289
Part II: Ignition Characteristics & Methods	6	4	301
Part III: Typical Circuitry	7	1	313
Part IV: Life, Specs & Handling	7	2	325
Detector, Bubble	5	4	250
Detector High Voltage	2	1	33
Diagnosing a Computer With Neons	7	3	340
Dimmer, Electronic	5	2	230
Delay Circuit, Alarm	8	1	357
Detecting Transmitter RF Leaks	9	4	430
Divider Neon Lamps, 60 Hz	4	4	201
"Do Nothing" Box	4	1	169
"Do Nothing" Box Modification	9	5	442
Double Duty, From Flasher Indicator	8	1	359
Edo Corporation	2	1	29
Electron Action in Neon Glow Lamps	6	3	291
"Electronic Match", Neon Triggered	4	4	197
Electronic Organ	4	2	181
Encoder, Optical, for Shaft Speed Indicator	8	2	368
Energy Transfer Device, Typical Circuit	7	1	320
Energy Transfer Switches	9	4	426
Evaluating and Applying Neon Lamps	2	6	89
Extending Life of Soldering Iron	2	6	99
Failure Monitor for Heating Elements	9	5	433

Fairchild Camera & Instrument Corp.	5	1	209
Fast Acting Low Voltage, Subminiature Surge Arrester	8	3	383
Federal Aviation Administration	7	3	340
Film Strip Marker.	2	2	47
Flash Pulsing Circuit.	3	3	138
Flash Tube Timing Circuit, Surge Arrester Replaces Neon	9	2	397
Flash Units, Electronic, Triggering of	7	2	333
Flash Indicator, Double Duty from	8	1	359
Flasher, Transistorized Electronic	4	3	194
Flip Flop, Demonstrating Operation of	5	3	242
Flip Flop, Miniature Power Supply for	5	3	243
Frequency Divider	2	5	86
Frequency Divider Circuit	2	4	74
Frequency Divider & Staircase Generator.....	3	4	146
Frequency Dividers.	2	2	44
Frequency Drift Problem	2	6	97
Frequency Synchronization of Test Set	5	2	230
Fuse Failure Indicator, Blinking.....	5	5	262
Fuse Trouble Shooter.....	2	1	33
Games That People Play	8	1	357
Gas Appliance Ignition.....	4	4	197
Goodbye Cold Furnace	7	1	322
Ground Check, RF Transmitter.....	6	1	275
Grounding Indicator, Three Wire	7	3	344
Guide To High Energy Devices for Switching and Circuit Protection	9	4	422
Harness Tester	1	3	24
Harness Testers, Inexpensive	1	2	9
Hasn't Missed a Blink.....	7	3	344
Heating Element, Failure Monitor	9	5	433
Heating System, Indicator for Misoperation	7	1	322
Hewlett-Packard Company.....	3	3	131
High Energy Devices for Switching and Circuit Protection, Guide to	9	4	422
High Voltage Spikes and Neon.....	6	3	298
Holiday Greetings.....	8	3	382
Honeywell, Inc., Test Instrument Division.....	5	4	245
Hotwatt Incorporated.....	9	5	433
IBM.	3	4	146
Ignition Characteristics & Methods of Neon Glow Lamps	6	4	301
Improved Regulation	6	2	286
Indicating Circuit, Phase Sequence	9	1	393
Indication, Remote, of Conveyor Stoppage	6	1	272
Indication, Remote, of Conveyor Stoppage.....	6	3	297
Indicator, Behavioral Experiments on Rats	6	2	285
Indicator, Bingo Game.....	7	3	343
Indicator, Blinking, Fuse Failure	5	5	262
Indicator, Blown Fuse Bridge Circuit.....	5	3	243
Indicator Circuit, Air Punch Sequence	9	2	404
Indicator Circuit, Typical.....	7	1	314
Indicator, Continuous Gas Flow	5	2	228
Indicator, Correct Grounding Three Wire System	7	3	344
Indicator, "Do Nothing" Box	4	1	169
Indicator, Engine Performance	3	2	122
Indicator, Failure of Step Function Generator	5	2	229
Indicator, Four Condition Status	3	1	112
Indicator, Frequency Tuning	4	4	206
Indicator, Fuse	3	3	141

	Vol.	No.	Page
Indicator, Fuse-Circuit Breaker, Fault	4	4	205
Indicator, Fuse Status	3	4	157
Indicator, Gas Flame	4	1	166
Indicator, Gas Flame	4	2	180
Indicator, Gas Flame, Photocell	4	1	168
Indicator, Gas Flame, Thermistor	4	1	168
Indicator Light, factor in Sales	9	3	409
Indicator, Liquid Level	5	1	218
Indicator, Loss of DC and Wrong Polarity	9	3	419
Indicator, Loud Speaker, Audio	2	1	34
Indicator, Overvoltage for Pass Transistor	2	1	35
Indicator, Panel Light	3	3	143
Indicator, Phase Sequence	4	2	182
Indicator, Phase Sequence	4	4	205
Indicator, Phase Sequence	9	5	437
Indicator, Photocell Sign	4	2	173
Indicator, Positive Voltage	2	2	47
Indicator, Power Failure, Clock	9	2	404
Indicator, Remote	2	6	99
Indicator, Remote Circuit	3	1	108
Indicator, Remote on Rotary Mixer	2	3	61
Indicator, Service Voltage	3	2	123
Indicator, Solenoid Condition	4	4	205
Indicator, Subminiature	4	2	183
Indicator, Television Channel	1	2	15
Indicator, Thermostat Status	8	2	370
Indicator, Three Pulse	1	2	12
Indicator, Visual Flow for Liquids	2	2	51
Indicator, Visual Level	2	5	87
Indicator, Visual on Digital Computer	2	3	63
Indicators for Appliances	9	3	409
Indicators, Markers and Buoys	3	4	159
Insulation, Protection	3	1	111
Intruder Alarm	5	5	261
Intruder Alarm	6	2	283
Isolator, Spurious Signal	3	1	101
Jerrold Electronics Corporation	9	6	445
Johnson, E.F., Company	4	2	176
Latched Light Circuit	4	2	176
Leakage Resistance	4	2	181
Lead Bending, Neon Glow Lamps	7	2	331
Leeds & Northrup Co.	6	2	277
Life of Neon Lamps	7	2	326
Life, Specs. and Handling of Neon Glow Lamps	7	2	325
Light Better Than Noise	9	3	418
Light Coupled Circuit	4	1	161
Light Generation in Neon Glow Lamps	6	3	294
Light on the Interlock	9	5	442
Lights for Christmas Wreath (Holiday)	8	3	382
Little Light Can Make a Big Difference	9	3	409
Logic, Binary to Decimal	3	3	131
Logic, Decimal to Binary	3	3	136
Long Tuner Circuit	6	4	309
Lost in the Woods	6	4	311
Lost in the Woods	7	1	323
Low Cost Priority Call	6	4	310
Low Cost Priority Call	7	1	322
Low Noise Switch, Photocell	2	2	41
Low Power Timer Drives Stepping Relay	8	2	366
Low Voltage Indicator (Flasher)	8	1	359

	Vol.	No.	Page
Magnetic Field Locator	2	2	48
Malfunction Alarm	3	2	121
Matrix, 200-Lamp Neon	4	3	194
Matrix, Memory	4	4	203
Matrix, Neon	4	3	192
Matrix Number Identification	1	3	18
Memory Board, Home	2	5	84
Memory Module, Typical Circuit	7	1	320
Memory Circuits, Photocell	2	2	42
Memory Switch, Neon 3-Element	4	3	189
Memory Switches, Neon as	4	3	185
Metronome, Darkroom	6	3	299
Microwave, Field Pattern, Monitor For	5	1	217
Modulator, With Spark Gaps	3	4	152
Monitor Conductors in Harness:	8	1	356
Motorless, Remote Control for Color TV	8	1	349
Multi Layer Board Checker	7	3	337
Multivibrator Oscillator	3	1	111
NASA, Marshall Space Flight Center	7	3	337
Neon Glow Lamps, Const., Oper. & Oper. Char. Part I:	6	3	289
Ignition Char. & Methods Part II:	6	4	301
Typical Circuitry Part III:	7	1	313
Life, Specs. & Handling Part IV:	7	2	325
Neon Lamp Howler	7	3	346
Neon Lamp Triggers Oceanographic Flash Finder	5	2	221
Neon Lamp Triggering of SCR's in Proportional Control Application	2	4	65
Neon-Photocell Chopper, Circuit, Typical	7	1	317
Neons and High Voltage Spikes	6	3	298
Neons in Photoconductive Choppers	6	2	277
Neon Signals Open Circuit	9	5	442
Neon Timer in Amplifier	5	5	263
Neon Tone Ringer	3	1	104
Non-Linear Systems, Inc.	2	5	77
North Electric Company	3	1	101
Number Identification Matrix	1	3	17
Optical Encoder for Shaft Speed Indication	8	2	368
Oscillator, Astable Triangular	2	3	62
Oscillator, Audio Frequency	7	3	346
Oscillator, Circuit, Typical	7	1	315
Oscillator, Dual Relaxation	3	1	111
Oscillator, Low Frequency	1	3	20
Oscillator, Monitor Neon Lamp	5	3	240
Oscillator, Multivibrator	3	1	111
Oscillator, Saw Tooth	2	2	49
Oscillator, Square Wave	2	5	83
Oscillator to Change Frequency	8	2	369
Oscillators and Stable Frequency Dividers, Neon as	2	3	53
Overload Protection, Photocell	2	2	41
Overload Sensing Circuit, Three Element Lamp	9	2	405
Overvoltage Protection, Voltmeter	3	4	158
Phase Sequence Indicating Circuit	9	1	393
Phase Sequence Indicator	9	5	441
Photo Enlarger Timer	8	2	365
Photocell Sign.	4	2	173
Photoconductive Choppers, Neon In	6	2	277
Photoconductive Selector Circuit	2	1	29
Photometer	3	2	119
Photometer, Versatile, Low Cost	8	3	373
Photomultipliers, Voltage Regulation of	3	2	115

circuit p

Signalite Glow Lamps and Spark Gaps have solved problems in these areas:

- Voltage Regulation & References • Photo-Cell Drivers
- SCR Triggering • Timing • Photo Choppers • Oscillators
- Indicator Lights • Counters • Voltage Dividers
- Surge Protectors • Logic Circuits • Flip-Flops
- Memory • Switching • Digital Readouts

Signalite glow lamps and Spark Gaps combine long life, close tolerance and economy, and are manufactured with a broad range of characteristics to meet individual application requirements. For a creative approach to your design problem . . . contact Signalite's Application Engineering Department.



NUMERAL ONE REPLACEMENT FOR "NIXIE" TUBE. The Signalite A261 neon lamp is designed to replace "Nixie" tubes in digital readouts which display only the numeral one. The lighted length is comparable to a "Nixie". It can also be used in the plus or minus display. A typical example is the over range position of a digital voltmeter.



LOW COST ZENER REPLACEMENT
A new series of low cost voltage regulator tubes, Type V, are used for direct replacement of zeners. They are orders of magnitude better than zeners under transient conditions. Type V neon tubes feature temp. coef. less than 15 mv/°C with a life greater than 20,000 hours.

Problems?



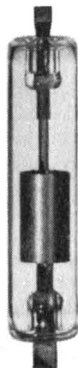
TRIGGER LAMPS FOR OPERATION OF SCR'S AND TRIACS The A230 lamp is recommended for use as a triggering device for both SCR'S and TRIACS in motor speed controls and light dimmer circuits. Its properties of stable operation and high current capabilities qualify it for this application.



NEON TIMERS The bi-stable characteristics and high leakage resistance of Signalite's special glow lamps make them ideal as a component for timing circuits. The basic circuit resembles a relaxation oscillator network.



SUBMINIATURE LOW VOLTAGE SURGE ARRESTERS The CG-Series, "Comm Gap," arresters are high quality, reliable replacements for old type carbon-block protectors in the telecommunications industry. They provide transient protection at minimum cost and size in rugged miniaturized ceramic construction, with picofarad capacitance, high peak current and energy capability.



FASTEST SURGE ARRESTER The Uni-Imp® Series protects sensitive components against overvoltages without regard to rate of voltage rise. Trip voltage does not vary by more than $\pm 10\%$ from slow DC overvoltages to 200kv/us transients over the lifetime of the device. In addition, Uni-Imp has energy, peak current and di/dt capabilities far exceeding solid state protectors.

FOR REPEATED ELECTRICAL SURGES The LP Series Line Protector® is self-restoring for repeated operation in the protection of electrical and communications lines against lightning and other electrical transients. Follow-on current, which would normally destroy a gas-filled gap, is interrupted quickly enough to allow arrester recovery without affecting main fuses or circuit breakers.



Signalite

DIVISION OF
GENERAL INSTRUMENT

NEPTUNE, NEW JERSEY 07763
(201) 775-2490



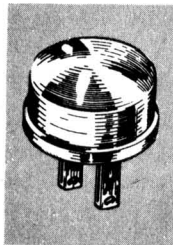
Pilot Light, Dual Purpose	5	2	231
Pilot Light for Transistor Radio	6	1	275
Polarity Check, Two Wire System	7	3	345
Potentiometers, Life Testing	2	3	60
Potting Neon Lamps	7	2	330
Power Failure Indicator for Clock	9	2	404
Power Line, Spark Gap Protection	3	4	153
Power Supply, Miniature Regulated	2	4	75
Power Supply Regulated for Industrial Television	5	1	214
Power Supplies, Photocell	2	2	40
Priority Call, Low Cost	6	4	310
Probe, R.F.	3	1	107
Proportional Control, Full Wave	2	5	85
Proportional Control Circuit, One Half Wave, Typical	7	1	316
Proportional Control Circuit, Full Wave, Typical	7	1	316
Protect the Transistor	6	2	287
Protecting CATV Systems from Surge Currents	9	6	445
Protecting Meter Leads	5	2	228
Protection, Circuit and Component	9	4	425
Protector, Antenna Overload	1	2	10
Protector, High Voltage	2	2	50
Providing Low Cost Reliability in Digital Voltmeters	2	5	77
Pulse Changing Batteries	9	3	416
Pulse Timer	3	3	139
Pulsing for Flasher	3	3	138
RaeCo Inc.	9	2	397
RCA	8	1	349
R.C. Nomograph	5	3	236
R.F. Probe	3	1	107
Radio, Two Way Signal	4	2	176
Rats!	6	2	285
Raytheon Company	2	2	37
Readout, Digital	5	2	231
Readout, Neon Lamp in Alpha Numerical	5	4	245
Regulated Power Supply, Miniature	2	4	75
Regulating Voltage to Vidicon Tubes	5	1	209
Regulation, Improved	6	2	286
Relay Contact, Sequence of Operation	2	4	75
Relay Driver, Dual, Telephone Line	6	2	284
Relay Operation Sequence	7	2	334
Relay Sequence Operation Revisited	7	3	345
Relay, Stepping, Low Power Timer Drives	8	2	366
Relay Voltage, Sharpening Operation Threshold	1	3	21
Remote Circuit Indicator	3	1	108
Remote Control, Motorless for Color TV	8	1	349
Remote Indication of Conveyor Stoppage	6	1	272
Remote Indication of Conveyor Stoppage	6	3	297
Resistor Assemblies for Neon Glow Lamps	7	2	330
Ring Counters for Line Operation	6	1	265
Safe Switching With Neon	8	2	370
Safety Device, Transformerless Power Supply	9	2	406
Saw Tooth Voltage	2	6	98
Senses Incoming A.C. Signals	7	3	347
Sensing System Contact for Precision Machining	9	1	388
Sequence Generator, Automatic Zero Setting of	9	1	392
Series Shunt Modulator, Photocell	2	2	39
Sequence of Operation Indicator	2	5	83
Short Term Timer	9	6	454
Side-Looking Neon Lamps	6	2	280

Sierra Overload Circuit Feedback	9	2	405
Simple But Effective Strobe Light Calibration.....	9	5	437
Some Uses for Neon-Photocell Units.....	2	2	37
Spark Gaps, Built-In Protection.....	3	4	151
Spark Gaps Triggered.....	9	4	428
Specifications, Electrical, Neon Glow Lamps	7	2	328
Specifications, Mechanical, Neon Glow Lamps.....	7	2	329
Spectral Distribution of Light in Neon Glow Lamps.....	6	3	295
Spurious Signal Isolator	3	1	101
Staircase Generator	3	4	146
Static Electric Discharger.....	1	3	21
Stepping The Relay	9	5	443
Strobelight Calibration.....	9	5	437
Stromberg-Carlson	1	3	17
Surge Arrester, Fast Acting, Low Voltage.....	8	3	383
Surge Arrester Replaces Neon Glow Lamp in Flash Tube Timing Circuit.....	9	2	397
Surge Arrester, UNI-IMP, Unity Impulse.....	9	1	385
Surge Currents, CATV, Protection from.....	9	6	445
Switch, Photocell for Floodlights.....	4	1	170
Switch, Solid State	3	2	127
Switches, Energy Transfer	9	4	426
Switching and Circuit Protection, Guide to High Energy Devices for	9	4	422
Switching with a Neon	8	2	370
Synchronizing Pulses With Light	8	2	368
Telephone Answering Circuits	4	1	161
Telephone Line Dual Relay Driver	6	2	284
Telephone Ring Detector.....	9	1	394
Television Camera, Industrial Power Supply For.....	5	1	214
Tell Us If The Pump Is Working.....	9	1	395
Temperature Controller With SCR	2	5	85
Test Fixture, Multilayer Board, Checking.....	7	3	337
Testers for Capacitors	5	5	262
Testing Installed Cables	2	1	35
Texas Instruments.....	2	4	65
Thermostat Status Indicator.....	8	2	370
This is a One Way Street	9	3	419
Third Wire Theme	7	3	344
Three Element Device, Making From Two Terminal Neon Glow Lamp.....	6	3	299
Three Element Lamp Overload Sensing Circuit	8	2	361
Three for the Price of Two	6	3	299
Tighter Specs For Neons	2	2	43
Timer, Low Power, Drives Stepping Relay	8	2	366
Timer, Neon Lamp for Amplifier.....	5	5	263
Timer, Photo Enlarger	8	2	365
Timer, Pulsed.....	3	3	139
Timer, Short Term.....	9	6	454
Timing Circuit, Using Neons in	5	3	233
Timing Circuit, Variable Speed	1	3	22
Tone Alert, Neon	4	2	176
Tone Generator, inexpensive	2	5	87
Transformerless Power Supply Safety Device	9	2	406
Transient Suppressor	2	1	34
Transistor Protection	6	2	287
Transistor Radio Pilot Light.....	6	1	275
Transistors, Using Neons With.....	4	3	195
Transmitting Antennas, Adjusting	2	3	62

	Vol.	No.	Page
Triangular Voltage Output	2	6	97
Trigger for "Longwire" Antenna	9	1	394
Trigger Tubes, Subminiature	4	1	171
Trigger Tube Turn-On	6	4	305
Triggered Spark Gaps.	9	4	428
Triggering Electronic Flash Units.	7	2	333
Tuner Circuit, Long Time	6	4	309
Tuner Circuit, Typical	7	1	315
Turn-Off Time, Neon Lamp	6	4	308
Turn-On Neon Lamps.	6	4	301
Turn-On Trigger Tube	6	4	305
UNI-IMP: Fast Acting Unity Impulse Surge Arrester	9	1	385
Using Neons in Timing Circuits.	5	3	233
United States Steel Corp.	9	1	388
Versatile, Low Cost Photometer.	8	3	373
Volt Ampere Characteristics of Neon Glow Lamps.	6	3	296
Voltage Divider Tester	2	4	73
Voltage Fuse.	1	2	14
Voltage Limiter.	3	2	120
Voltage Regulator.	3	3	141
Voltage Regulation, Photomultipliers.	3	2	115
Voltage Regulation in Vidicon Circuit.	5	1	209
Voltage Regulator, Regulation Curve.	3	2	117
Voltage Regulators, Typical Characteristics of 3 Types.	5	1	215
Voltage Tripler	5	3	241
Warmer Aquarium	3	1	108
Warning Light for Compressor.	9	3	418
Wave Generator, Square	5	1	218
Wilcolator Company.	4	4	197
Wilson, George C. & Co.	1	2	5
Wink Light	7	1	323
Writing With Light	4	2	173
Who Stopped the Line	6	1	272
Who Stopped the Line	6	3	297
Xenon Tube, Firing with Lamp	5	2	225
Xenon Tube, Neon Trigger Circuit For	5	2	226
Zero Setting, Automatic, Sequence Generator	9	1	392



Yours free . . . for telling us how you use or would like to use neon glow lamps and spark gaps.



You can get a free Signalite Owl Eye Nite Lite simply by sending us an application for neon glow lamps or spark gaps, a problem or solution on their use. Each reader will receive the Nite Lite whether or not his letter is used in the Application News. In addition, we welcome longer articles for feature treatment which we will also place in a leading technical magazine in your name.

Other Helpful Information From Signalite

APPLICATION IDEAS

a 12-page booklet which describes the use of neon glow lamps as electronic circuit components to perform a variety of functions in television equipment, appliances, instruments, telephone equipment, as suppressors and as energy transfer devices. Included are lamp specifications and a general description of how the lamps are used. Typical applications include vidicons, photomultipliers, power supplies, remote control for TV, erasable long-term memories, timers for any variable resistance, proportional controls, moving signs, suppressors, photochoppers, binary decoding, frequency dividers, and electronic matches. All applications described are actual proven uses. Free.



APPLICATIONS OF NEON LAMPS AND GAS DISCHARGE TUBES by Edward Bauman, published by Carlton Press, this book contains 160 pages, liberally illustrated with circuit drawings, design information and many practical down-to-earth applications for neon glow lamps. Copies of this hard cover edition may be obtained from Signalite for \$2.95 plus 25¢ for shipping and handling.



GLOW LAMPS, DESIGN, OPERATION AND APPLICATION

a 12-page, illustrated technical bulletin covering a broad range of information starting with a discussion of what a neon lamp is, how it works and why, and what the operational characteristics of the device are. It includes both two-element and three-element lamps showing how light is generated and what the spectral distribution of the light is. Ignition characteristics and methods are discussed with many curves and charts showing how the lamps act under different conditions. Free.



NEON GLOW LAMPS

a condensed catalog of indicator and circuit component neon lamps which includes complete electrical and mechanical specifications. Also included is information on how to evaluate and apply lamps, definition of terms concerning neon lamps, and a circuit for measurement of breakdown, maintaining, extinguishing voltage and lamp current. Free.



SURGE ARRESTERS

comprehensive technical brochure discussing the latest developments in surge arresters, spark gaps, and high energy transfer devices produced by Signalite. Amply illustrated with drawings and performance curves, the brochure contains detailed technical discussions of important characteristics, testing, and ratings. Covered are Uni-Imp[®], Comm Gap, two-electrode and triggered spark gaps. Free.



NOISE SOURCES

a basic reference text and product guide listing over 200 different types of microwave gas discharge noise tubes and miniature noise sources for use in noise figure test equipment and for monitoring system receiver sensitivities. Its 20 pages of information serve as a summary of the history, fundamentals, characteristics and application of these devices. It contains many circuits, charts, curves and data that represent essential knowledge for the user of these products. Free.



H. ULMOR
 UNCORPORATED
 P.O. Box 1007
 OceanSide, Calif. 92054

Permit No. 1
 Dover, N.J.
PAID
 U.S. Postage
 BULK RATE

1933 HECK AVENUE, NEPTUNE, NEW JERSEY 07753

DIVISION OF GENERAL INSTRUMENT CORPORATION

Signalite

Drop Us A Line . . .

If you have an interesting application of neon glow lamps or spark gaps in your circuitry . . . or a problem concerning the use of these components, drop us a note telling about it. Interesting letters will be published in a future issue of the *Application News* - and we will send you an Owl Eye Nite Lite for your interest.

Applications which in the opinion of Signalite have significant interest will also be brought to the attention of the editors of leading technical publications for consideration as articles and featurettes. If you would like help in preparing your material for publication, just send us the facts and data; we will put it in the correct form for publication. Your by-line and company credit will be given with your permission.

*For immediate technical application or circuit design assistance,
 you may contact Signalite directly at:*

TWX: 201-775-2255

TEL: 201-775-2490



For information about Signalite neon glow lamps, spark gaps, and other gas discharge products for circuit component and/or indicator applications, for specifications on Signalite components, or for general information about Signalite and its products, call us at any of the following telephone numbers:

Los Altos, Calif.	(415) 948-7771	Neptune, New Jersey	(201) 775-2490
North Hollywood, Calif.	(213) 877-0887	Rochester, New York	(716) 586-2030
Atlanta, Ga.	(404) 758-7496	Charlotte, N.C.	(704) 375-8958
Chicago, Illinois	(312) 593-0200	Cincinnati, Ohio	(513) 521-2290
Fort Wayne, Indiana	(219) 432-5591	Cleveland, Ohio	(216) 229-7525
Kokomo, Indiana	(317) 443-6868	Columbus, Ohio	(614) 888-9396
Indianapolis, Indiana	(317) 359-9283	Dayton, Ohio	(513) 298-9546
Louisville, Kentucky	(502) 893-7303	Lafayette Hill, Pa.	(215) 825-3177
Baltimore, Maryland	(301) 484-3647	Pittsburgh, Pa.	(412) 242-0100
Newton, Mass.	(617) 444-8130	Bristol, Tenn.	(615) 968-4195
Grand Rapids, Mich.	(616) 451-8901	Dallas, Texas	(214) 528-6286
St. Joseph, Mich	(616) 983-7337	Houston, Texas	(713) 468-0232
Southfield, Mich.	(313) 358-2020	Seattle, Washington	(206) 782-1600
Minneapolis, Minn.	(612) 854-4270	Waukesha, Wisc.	(414) 786-6330
Kansas City, Missouri	(816) 763-3634	Malton, Ont., Can.	(416) 743-1771
St. Louis, Missouri	(314) 872-3183		