

ECOmodul Signal Tower Lights from Auer Signal



SIGNALING SOLUTIONS FROM AUER SIGNAL

Five Types of
Illumination

Interchangeable
Components

Simple Twist &
Release Modules

Heavy Duty
Construction



**Modular signal tower series
ECOmodul40, ECOmodul60,
ECOmodul70 for universal
applications**

Features:

- cULus listed and CE marked
- "HIGH PERFORMANCE" LED (steady/strobe/multi strobe modules)
- LED (steady/flashing/strobe (single flash)/multi-strobe (multi-flash) modules)
- Incandescent bulb
- UL Type 4/4X/13 Rated for indoor and outdoor use
- Unlimited mounting orientations

Sprecher + Schuh is the exclusive Authorized Representative for Auer Signaling Products in North America.



Built using the latest design and manufacturing techniques, **ECOmodul Signal** Tower Lights from the Auer company are the perfect compliment to Sprecher + Schuh's world class industrial product line. High grade, heavy duty and comprehensive, this space saving line is flexible and extremely easy to install.

In comparing **ECOmodul Signal** Warning Tower Lights series to competitive products from manufacturers including Patlite, IDEC, Federal Signal and Werma, the **ECOmodul** line offers more features, approvals and options than any of these major manufacturers.



SIGNAL TOWERS



Rugged Construction, Extensive Range of Approvals

Heavy duty industrial polycarbonate is used to construct all light modules and bases for the **ECOmodul Signal** line. The entire line meets UL Type 4 / 4X / 13 and IP65 guidelines for use indoors or out. Three sizes are available: ECOmodul40, ECOmodul60 and ECOmodul70. No other manufacturer of competitive product offers this extensive range of environmental approvals.

Over 100 Combinations of Lens, Voltage and Illumination

Variety and interchangeability are standard with the **ECOmodul Signal** line. Six lens colors are available – more than any other major manufacturer. Light modules are offered in different voltages, including 24V AC/DC, 120V AC and 240V AC. Illumination types include incandescent, LED and strobe. A special flashing LED is also available for improved economy.

New Sound Module Expands Choices

In addition to the many visual alert modules available with the **ECOmodul Signal** line, a new selectable sound module is now available. Use DIP-switches to choose either a single or pulsing tone. A dual circuit module is also available for applications where two types of audible alert are desired to indicate different levels of machine status.

Easy Assembly, Change Out and Maintenance

Up to five modules of the same voltage may be combined in any order with a simple twist of the wrist. Each light module has a bayonet locking system and finger protection that allows it to be “hot swapped” if necessary. Upon reassembly of the Tower Lights, all modules are under power again automatically.



no tools
required
simply twist
to lock

Mounting Bases for any Installation

Three standard bases are offered, including surface mount, pole mount, and side mounting, for vertical equipment surfaces and walls. Two different Pole Mount Bases are available, including the standard aluminum pole with polycarbonate foot or a stainless steel pole with zinc, die cast foot. All poles are available in seven lengths, and may be cut to a specific length if required.

A unique junction box effectively adds three more mounting base options. This polycarbonate housing provides wiring space and a conduit external to the equipment on which the **ECOmodul Signal** is attached. The junction box is used with the Pole Mount Base and comes in three versions, including a magnetic option for screwless attachment.

Light modules can be ordered individually for configuration up to five modules or pre assembled as a complete stack.



ECOmodul Signal Tower Light Features

Available in six colors

- Modular signal tower series in diameters 40mm, 60mm, and 70mm for universal applications
- Easy, fast and individual mounting of tower
- Precise bayonet locking of modules
- Automatic electrical connection between modules
- Module configuration can be freely selected and modified
- Modules available in six colors
- Modern signal tower concept based on up-to-date LED illumination, alternative operation with conventional incandescent bulb illumination
- Excellent cost / performance ratio
- Complete range of bright LED modules in function modes
 - » LED steady light
 - » LED flashing light
 - » LED strobe light (single flash)
 - » LED multi strobe light (multi-flash)
 - » LED steady/LED strobe and LED multi-strobe modules in “HIGH PERFORMANCE” versions
 - » Very long lifetime due to maintenance free LED, vibration proof and significantly reduced nominal current
- Piezo buzzer and multi-tone siren modules
- Easy to operate connection
- Comprehensive range of mounting options including quick mount solutions
- PLC fit (leakage and inrush current)
- UL type 4/4X/13



Comprehensive range of LED “High Performance” modules

- The use of high performance LEDs in connection with intelligent electronics results in
 - » Highest signaling effects
 - » Suitability for outdoor applications/i.e. in sunlight
 - » Optional signaling effects in extremely dangerous situations
- Extremely long lifetime (>50,000 hrs)
- LED “HIGH PERFORMANCE” modules available in function modes below



Easy “No Tools” Twist On Locking System

ECOmodul40

ECOmodul60

ECOmodul70



	ECOmodul40	ECOmodul60	ECOmodul70
Number of LEDs	8	8	12
Number of “HIGH PERFORMANCE” LEDs	~	2	4
LED steady light	✓	✓	✓
LED flashing light	✓	✓	✓
LED strobe light (single flash)	✓	✓	✓
LED multi strobe light (multi flash)	✓	✓	✓

Steady light with high performance LEDs

Alternative operation with conventional incandescent bulb technique

- For all 3 tower sizes 40mm, 60mm and 70mm
- Bulbs available in 12, 24, 48, 60, 120 and 240V
- Trouble free , finger safe bulb change
- Easy bulb out tool for quick installment or replacement



Powerful piezo buzzer and multi tone siren modules

- Piezo buzzer modules for single tone operation (continuous or pulsing tone) in one signal tower (ECOmodul40, 60, 70)
- Piezo buzzer modules for dual tone operation (continuous and pulsing tone) in one signal tower (ECOmodul70)
- Multi tone siren modules - 1 or 8 different tones selectable (ECOmodul70)



XDE Continuous/Pulsing Tone
(Single Circuit)



XDZ Continuous & Pulsing Tone
(Dual Circuit)



XDM 1-8 Tones
(Single Circuit)

Terminals with easy push-in connections

- Time and cost savings in electrical connection
- High contact safety and conductivity in vibrations and temperature fluctuations



Screwless terminal connection
(ECOmodul 60 and 70)



Quick push-in terminals (ECOmodul40)



Mounting Options

- The quick mount base is electrically pre-wired; the lower adapter part is mounted on the device and electrically connected
- The signal tower with quick mount upper base part is simply inserted into the lower part and firmly mounted by twisting the fixing ring
- The signal tower is now fully functional

Advantages

- Simple and cost effective disassembly of signal tower for transportation of device
- Easy re-installation of signal tower at client's location
- Immediate function, no electrical connection work
- No wrong installation of signal tower possible as it only fits in one correct position into the quick mount lower part
- Additional locking option of signal tower with safety screw
- Quick mount base includes a rubber shipping cover protecting the exposed lower part during transportation or storage

<p>ZMF, YMF, XMF</p>  <p>Base for horizontal mounting/external holes mounting</p>	<p>ZMS, YMS, XMS</p>  <p>Base for horizontal mounting/pre-mounting fixation screws</p>	<p>ZMW, YMW, XMW</p>  <p>Base for horizontal mounting/internal holes</p>	<p>ZMV, YMV, XMV</p>  <p>Base for vertical mounting/single side</p>	<p>ZZV, YZV, XMZV</p>  <p>Base for vertical mounting/double side</p>
<p>XWR</p>  <p>Bracket for pole mount for ZMR, YMR, XMR</p>	<p>ZMR, YMR, XMR</p>  <p>Pole mount base on aluminum tube with plastic foot</p>	<p>ZSW, YSW, XSW</p>  <p>Pole mount base on aluminum tube for horizontal mounting with screw / works with XSS</p>	<p>XSS</p>  <p>Set for vertical mounting includes metal bracket and cable gland / works with ZSW, YSW, XSW</p>	<p>XFR</p>  <p>Quick release pole mount base on aluminum tube with foot adapter for quick mounting</p>

Base extension

The base extension is an economic way of extending the length of an ECOmodul signal tower by 100 mm per base extension and to optically adapt the base to the diameter of the modules. Suitable for all bases. The ECOmodul40, ECOmodul60 and ECOmodul70 signal tower system is basically designed to accept maximum 4 pieces base extension (corresponds to a length/extension of 400 mm). Depending on the individual application (vibration etc.) also a higher pole length can be achieved.



halfDome90 Signal Towers

- For universal applications
- Easy, fast and individual mounting of halfDOME
- Slim, sleek housing - 45mm wide - fitting almost any machine or equipment panel
- Variety of color and sound combinations in two to five levels
- Specially designed lens coating allows for 180 degrees of visual signaling
- Visual-audible LED-signal tower in half dome design for universal industrial, building and other applications
- Can be mounted in any orientation
- Any color combination and housing size (2-5 positions) available
- 6 lens colors, 3 housing colors (grey, chrome, black)
- LED-steady light or LED-flashing light for each position selectable
- Optimal signaling and visibility from each viewing angle (180°)
- Optional piezo buzzer in upper housing area available
 - » tone types continuous and pulsing
 - » volume individually adjustable - 70-90 dB (A) in 1m
- Available in nominal voltages 24V AC/DC, 110/120V AC and 230/240V AC
- UL certified - UL 4/4X/13



available in 3 casing colors:
silver, white and black



slim design, only 45 mm wide for optimal
integration/combination of signal tower
unit in machine/panel building or other
(building) applications

LIGHT MODULES	Light Source
LED steady light	LED
LED flashing light	LED

PIEZO BUZZER	Sound Pressure
Continuous and pulsing tone	~70-90 dB adjustable

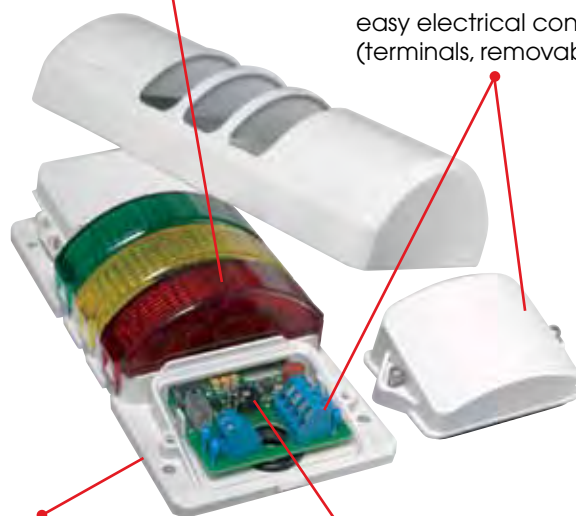
HOUSING	Housing Color
With 2 Lights	grey chrome black
With 3 Lights	
With 4 Lights	
With 5 Lights	

IP 65 – for use in
damp and dusty
environmental
conditions, also
outdoor



modules always work
with 24 V voltage

easy electrical connection
(terminals, removable cover)



supply voltage is chosen
with the respective base

volume individually
adjustable from ~70 – 90 dB