Pilot Devices

For the latest prices, please check AutomationDirect.com.

FREE Technical Support:
www.automationdirect.com/support

FREE Videos:
www.automationdirect.com/videos

FREE Documentation:
www.automationdirect.com/documentation

FREE CAD drawings:
www.automationdirect.com/cad

Up-to-date price list:
www.automationdirect.com/pricelist

FREE Downloadable Software:
www.automationdirect.com/documentation

www.automationdirect.com/pushbuttons-lights

Located in USA

www.automationdirect.com/support

FREE Shipping of in-stock products

45-day Money-Back Guarantee

Order Online at AutomationDirect.com

24/7 Customer Service

www.automationdirect.com

For many products

See website for details

mPIL-1

www.automationdirect.com/pushbuttons-lights
Quality pilot devices at incredible prices . . .

What are Control and Signaling Devices?

Control and signaling devices (also known as pilot devices) refer to components such as pushbuttons, indicator lights, selector switches, and audible signaling devices. These are commonly used for automated processes and systems to control and monitor conditions for all types of equipment, processes, and machinery.

Pilot devices also provide crucial control and indication to provide a safe work area and to protect equipment. From emergency pushbuttons used to completely disable a machine, system, or process in an emergency to indicators that provide local or remote indication of hazards, warnings, or unsafe conditions, these devices play an essential role in industrial automation.

Fuji Electric

16mm, 22mm, and 30mm Command Series pilot devices

Fuji Electric pilot devices feature a compact design that occupies less space than traditional devices and offers better layout and wiring, easier installation, and increased safety. We offer a full line of Fuji Electric 16mm, 22mm, and 30mm pilot devices, including:

- Illuminated and non-illuminated flush and extended pushbuttons
- Mushroom pushbuttons
- Emergency stop pushbuttons
- Selector switches

Eaton Cutler-Hammer E22 series 22mm non-metallic pushbuttons, switches, and indicators

Eaton Cutler-Hammer E22 series 22mm pushbuttons offer an array of functional, smartly-styled pilot devices including:

- Illuminated and non-illuminated flush and extended pushbuttons
- Mushroom pushbuttons
- Selector switches and key switches in a variety of styles
- LED and incandescent indicator lights
- Accessories

Cutler-Hammer 30mm NEMA HT800 series

Cutler-Hammer 30mm NEMA HT800 series

We took advantage of the experience of Cutler-Hammer engineering to take existing product technology and make it better. We proudly offer you the HTB series of 30mm pilot devices from Cutler-Hammer. (Cutler-Hammer parts are available for sale in North America only.)

- Flush, extended, illuminated or non-illuminated, mushroom and guarded pushbuttons
- Pilot lights and push-to-test models
- Selector switches in knob or lever versions
- NEMA 1, 2, 3R, 4, 4X, 12 and 13 rated

SCHMERSAL 22mm IP69K Control and Signaling Devices

SCHMERSAL E series 30mm IP65 devices provide simple operator controls and indication for industrial and commercial applications such as machine tools, industrial machinery, control panels, distribution panels, instrumentation panels, and more.

- Illuminated & non-illuminated flush, round momentary pushbuttons
- Momentary mushroom pushbuttons with 40mm or 50mm operators
- Push-lock pull-reset and twist-to-release emergency stop pushbuttons
- LED indicator lights
- Non-illuminated 2- and 3-position selector switches
- Plastic bases with plastic bezels
- IP65/69K protection rating
- IP65/67/69K protection rating
- Plastic cases with metal bezels

SCHMERSAL 30mm IP65 Control and Signaling Devices

SCHMERSAL 30mm IP65 control and signaling devices include F-series pilot devices featuring a compact design that occupies less space than traditional devices and offers better layout and wiring, easier installation, and increased safety. We offer a full line of economical 22mm pilot devices including:

- Illuminated or non-illuminated flush and extended pushbuttons
- Mushroom pushbuttons
- Emergency stop pushbuttons
- Selector switches
- Rotary switch products
- LED indicator lights

SCHMERSAL Non-Illuminated 22mm IP69K Joystick Selector Switches

Schmersal joystick selector switches are designed for food processing, pharmaceutical, and medical applications and comply with the food and beverage requirements to prevent cross-contamination in machines. The IP69K rating also makes them suitable for marine applications, traffic systems, commercial vehicles, and for dusty and dirty environments.

- Available in blue or gray
- 2- and 4-position momentary action with spring return to center
- Models available with 2 or 4 N.O. contacts
- Plastic bases with plastic bezels
- IP65/67/69K protection rating
- Non-illuminated 2- and 3-position selector switches
- Round and dome LED indicating lights
- Plastic cases with metal bezels

SCHMERSAL Contact Blocks and Light Terminal Blocks

Contact and light terminal blocks are designed for low voltage applications and include a self-cleaning bridge system known as Elan four-way system.

- Quality construction provides high shock and vibration resistance.
- Contact blocks available in various NO/NC configurations
- Light terminal blocks available in various colors & voltages
**Captron Capacitive Switches**

Captron capacitive switches offer the latest technology for pushbuttons and switches. These capacitive pushbuttons are activated by the inherent capacitance of the human body. The capacitance increases when a person touches the button, causing it to switch. The pushbuttons have a fixed sensing distance which may vary with approach speed or damping factor (size of the body part touching the switch).

**Features:**
- Touch control - easy to use, no pressure required, no moving parts
- Durable service life - over 100 million switching cycles
- IP69K rated - 100% water-proof and oil-proof, perfect for areas requiring sanitary conditions such as food and beverage, medical applications and pharmaceutical

**Hygienic EHEDG-certified capacitive switches**

- Meet FDA requirements, making them ideal for medical applications and pharmaceutical sectors
- For areas requiring sanitary conditions such as food and beverage processing
- Use in the medicine and pharmaceutical sectors

**Standard capacitive switches with four lateral spotlights provide 360° visibility to help keep operators informed.**

**Robust stainless steel capacitive switches, fully molded in special resin, cannot be destroyed by strong blows.**

**Hygienic EHEDG-certified capacitive switches meet FDA requirements, making them ideal for industries such as food and beverage or medicine and pharmaceutical sectors.**

**Captron Caneo Series10**

Captron Caneo Series10 standard, stainless steel, and hygienic EHEDG-certified capacitive switches are IO-Link v1.1 compatible and suitable for a wide range of applications.

**Features:**
- IO-Link v1.1 on select models
- Pushbuttons and switches. These capacitive switches offer the latest technology
- Capacitive switches with four lateral spotlights provide 360° visibility to help keep operators informed
- Pushbuttons have a fixed sensing distance which may vary with approach speed or damping factor (size of the body part touching the switch)
- Various switch types - static, dynamic or toggle
- Shock-resistant and vandal-proof - resists lighter flames and severe blows

**Starting at**

- $59.00
- $148.00

**Captron Caneo Series41**

Captron Caneo Series41 standard switches are IO-Link v1.1 compatible, come with a large 2.36” diameter touch surface and a 7-segment display, and are ideal for applications requiring an intuitive and clearly visible status display.

**Features:**
- Pushbutton/pilot light combo
- Pilot light control stations
- Pushbutton/pilot light combo control stations
- Selector switch control stations

**Starting at**

- $36.00
- $57.00

**AutomationDirect Double/Single Foot Switches**

AutomationDirect electric foot switches house a pedal actuator that operates an electrical circuit when the pedal is pressed. Single- or double-pedal foot switches with guards offer a selection of operating configurations. They are available in free movement, momentum, or maintained, and momentary safety anti-trip actions.

**Features:**
- Mushroom pushbutton control stations
- Device/splice boxes
- Accessories and more

**Starting at**

- $36.00
- $54.00

**IDEM Emergency Stop Control Stations**

IDEM E-stop control stations are plastic or IP69K stainless steel housings that enclose large mushroom head pushbuttons for emergency protection of machinery and personnel when potentially harmful conditions occur. Models with LED indicator and protection guards are available.

**Features:**
- Mushroom pushbutton control stations
- Device/splice boxes
- Accessories and more

**Starting at**

- $44.50
- $144.00

**Killark Dangerous Location Control Stations**

Killark hazardous location pilot devices include control stations that contain and extinguish explosions, and prevent the igniting of external hazardous atmospheres by the enclosed arcing device. Models in a variety of pushbutton, pilot light, and switch configurations, in sealed or unsealed assemblies, meet Class I and II, Div 1 & 2 requirements.

**Features:**
- Pushbutton control stations
- Pilot light control stations
- Pushbutton/pilot light combo control stations
- Selector switch control stations

**Starting at**

- $50.00
- $105.00

**Molex Pendant Switches**

Molex pushbutton pendants are ergonomically designed hand-held control switches for direct line-of-sight operation in production, material handling, changeovers, cleaning, and troubleshooting applications. Rubber switch covers make these devices ideal for demanding environments.

**Features:**
- Manual-operated switches with a variety of snap-action contact output arrangements (N.O., N.C.)
- Standard 7/8in. - 16 UNC2 connector for quick installation or replacement (cables sold separately)
- Nitrile/PVC rubber uniquely suited to withstand chemical exposure in the petrochemical environment
- Silicone rubber/PVC repels and inhibits bacterial growth and is ideal for any indoor or outdoor wet location, such as in food and beverage processing

**Starting at**

- $44.50
- $144.00

For the latest prices, please check AutomationDirect.com.

For the latest prices, please check AutomationDirect.com.
Stacklights

Stacklights, called signal towers, are modular, stackable devices that provide illuminated and audible status indication for machines, systems, or processes. They are available in a variety of colors; in flashing or permanent incandescent, LED, or Xenon lighting; and with audible alarm options.

WERMA eSIGN series signal towers provide full-surface signaling with a variety of programmable signal modes. The electronic modularity of these towers provides various colors, brightness levels, and light effects, from the classic signal tower to completely customized settings. The eSIGN signal towers can also switch with ease between variable filling level indications and full-surface signaling.

### Configuration Options (all models)

- Access control
- Audible warning
- Building security
- Fault indication
- Filling level indication
- Material availability
- Operating status
- Process monitoring
- Status indication
- Visual warning

### Standard Colors

- Red
- Blue
- Yellow
- Light yellow
- Green
- Violet
- White
- Turquoise

### RGB Color Selection Options

### Audible Selections (depending on model)

- 2.7 kHz continuous tone
- 0.9 kHz continuous tone
- 2.8 kHz at 420 Hz pulse frequency
- 0.9 kHz at 20 Hz pulse frequency
- 2.8 kHz at 20 Hz pulse frequency
- 0.9 kHz at 1 Hz pulse frequency
- 2.8 kHz at 1 Hz pulse frequency
- 2.3 to 3.6 kHz sweep tone
- 2.6 kHz continuous tone
- 1200/800 Hz alternating tone

### Light Effects

- Continuous light
- Blinking 1 Hz
- Blinking 2 Hz
- Blinking 3 Hz
- Flashing 1x
- Flashing 2x
- Flashing 3x
- Rotating

### Operating Modes

- Autoscale
- Filling Level
- Individual

### Operating Modes (all models)

- **Autoscale Mode**
  - In autoscale mode, the eSIGN segments are divided equally by the number of active status warnings. If only one status warning is active, the entire signal tower is illuminated in one color for maximum visibility.

- **Filling Level Mode**
  - Filling level mode accurately indicates job progress or material availability as a percentage, gradually illuminating the signal tower from bottom to top or top to bottom.

- **Signal Tower Mode**
  - In signal tower mode, eSIGN segments are combined to create a classic signal tower. Individual tiers are assigned fixed positions that are turned ON when their corresponding status bit is active.

- **Individual Mode**
  - All tiers, colors, light effects, and sounds are configured independently for each signal tower state in individual mode. Each signal tower state is selected based on the combination of active status inputs, allowing for a maximum of 64 possible states.

### Software Configurable Models

- Requires WERMA eSIGN configuration software (free download)
- USB-C programming interface
- Operation by hard-wired discrete inputs
- Standalone units do not require a PLC interface
- Software configured models do not support IO-Link

### IO-Link Models

- An external IO-Link Master is required for operation and configuration
- Operating modes, lighting effects, colors, and sounds can be changed on the fly
- No hard-wired I/O
- Requires extensive knowledge of IO-Link protocol and IO-Link Master and gateway devices

### Applications

- Access control
- Audible warning
- Building security
- Fault indication
- Filling level indication
- Material availability
- Operating status
- Process monitoring
- Status indication
- Visual warning

### For the latest prices, please check AutomationDirect.com.
PATLITE® 25mm ME/MES Series
Patlite® 25mm ME/MES series high-quality signal towers are designed with direct-mounted, rust-free aluminum bodies.
- Super slim design for easy fit in tight spaces
- PNP models IP66, NPN models IP62
- Starting at $93.00 (MES-102A-R)
- Starting at $73.00 (LR4-202WJNW-R)

PATLITE® 30mm MP/MPS Series
Patlite® 30mm MP/MPS series signal towers feature a direct-mounted, double-insulated ABS main body design that offers superior impact and heat resistance.
- IP65 rated (IEC 60529)
- 1 to 4 LED tiers
- Optional alarm buzzer available
- Starting at $93.00 (MPS-102-R)

PATLITE® 40mm LR4 Series
Patlite® LR4 series tower lights offer a rugged construction for superior impact and heat resistance, and a modular “Twist and Lock” system to easily customize and reconfigure the LED and sound modules.
- 2, 3, and 4 tiers (LED modules)
- Prism-cut lens design for enhanced visibility from any direction
- Optional alarm module with selectable sound patterns
- Direct or pole mount installation
- Interchangeable LED modules require no re-wiring even after installation
- Starting at $73.00 (LR4-202WJNW-R)

PATLITE® 70mm LS7 Series
Patlite® LS7 series 70mm signal towers offer an attractive smooth body design with no screws or metal parts exposed, excellent for harsh environments and areas where high pressure/temperature washdowns are required.
- Available in 3 or 5 LED tiers
- IP65 rated; models with buzzer are IP69K rated
- Optional alarm module with selectable sound patterns
- Starting at $211.00 (LS7-302DWC-RYGNN)

PATLITE® HSST Series Signal Tower Station
PATLITE HSST series signal tower stations offer a low-cost solution for controlling the stacklight colors manually via an included 3-button switch box and power adapter.
- Low-cost kit to control signal tower manually
- Includes three-button switch box and power adapter
- Three-tier light with red, amber, and green modules
- Starting at $211.00 (HSST-3M2-RYG)

PATLITE® LKEH Series - 100mm Combination Large Light Tower and Horn
Patlite® LKEH series 100mm LED signal towers feature a large signal horn and light tower combination, ultra-bright LEDs with a 100mm lens, and an alarm volume up to 105 dB.
- Ultra bright continuous or flashing LEDs
- 32 alarm tones
- 1 to 4 LED tiers (modules)
- Optional field configuration SD card (sold separately)
- Starting at $445.00 (LKEH-102FEUL-R)
Pre-assembled stacklights are available in 2- or 3-light element configurations, made with polycarbonate lens material and LED permanent light elements.
- Available in 24 VAC/VDC or 115 VAC
- 70mm diameter

WERMA’s modular signal towers offer total flexibility, allowing any combination of up to four (50mm) or five (70mm) audible-visual and audible signal elements. The bayonet mechanism allows elements to be quickly and safely changed without tools (contact-voltage proof).
- Available in 24 VAC/VDC or 115 VAC
- 70mm diameter
- IP65 rated
- Up to 4 (50mm) or 5 (70mm) incandescent, LED, or Xenon light elements
- Permanent, blinking, or flashing light functions
- Audible buzzer or siren elements
- IP65 rated components

WERMA’s FlatSIGN LED signal column is a wall-mounted signal unit that provides visual alarm notifications for machines, systems, and/or process alarms.
- Tri-color signal light for wall mount installation
- Audible alert option with 8 selectable tones or continuous tone
- Red/yellow/green LEDs
- 160° viewing angle
- Permanent or blinking (DIP switch selectable) models
- Continuous light function
- Base, tube, bracket, pole, and wall mounting options (accessories purchased separately)

WERMA installation beacons are designed for mounting in panels or enclosures in 22.5 or 34mm cutouts.
- Incandescent, LED, or Xenon light sources
- Permanent, blinking, flashing, and rotating signaling styles
- High protection rating IP65
- 29, 57/58, and 75 mm beacon diameters
- Audible modules with sight/sound combinations
- 360° visibility
- Five colors

Patlite NE-A series monocolour signal beacons are compact and reliable devices ideal for a variety of signaling applications. Their newly developed reflector evenly distributes light for clear indication. They feature a high protection rating and are suitable for harsh environments.
- Red, amber, green, blue, and white LED color options
- Continuous light function
- Base, tube, bracket, pole, and wall mounting options (accessories purchased separately)
NE-A Series Multi-Color Signal Beacons

Patlite NE-A series multi-color signal beacons feature customizable color selection, lighting functions, and audible alarms. These versatile signaling devices provide clear visual communication for various applications.

- Red, amber, green, blue, white, cyan, and purple selectable LED colors
- Permanent and flashing selectable light functions
- Continuous and intermittent audible alarm options on select models
- IP65 or IP67, NEMA 4X/13 or IP67/69K (depending on model)

Patlite NE-IL Series Multi-Color IO-Link Signal Beacons

Patlite NE-IL series signal beacons are a compact and versatile line designed for industrial automation and process control applications. They offer bright LED lights in selectable colors, a variety of lighting functions and audible alarms, and models with capacitive touch sensors for real-time status confirmation. They feature IO-Link compatibility for integration into industrial control systems that require remote monitoring and control.

- Red, amber, green, blue, white, cyan, and purple selectable LED colors
- Permanent, flashing, double flash, triple flash, and rotating selectable light functions
- Eight selectable audible alarm tones (88 dB) on select models
- IP65 or IP67, NEMA 4X/13 or IP67/69K (depending on model)

EvoSIGNAL Devices

WERMA’s EvoSIGNAL devices are streamlined modular beacon systems that warn, guide, and protect for a wide range of applications. Available with a variety of optical and audible signal types, they make it easy to configure the perfect system for your application and surroundings.

EvoSIGNAL devices can be safely and easily changed without tools. To configure your signaling device, select the desired diameter: 62mm, 85mm, or 120mm, and then select the series, lens color, and mounting type that best fits your application.

EvoSIGNAL Series Types

- **EvoSIGNAL Mini and Midi TwinFLASH Series**
  - The TwinFLASH series provides the option of a double flash or EVS (random flashing) light. Available in Mini (62mm) or Midi (85mm).

- **EvoSIGNAL Mini and Midi Midi Audible Signal Horn Series**
  - The Midi and Maxi audible signal horn series provides the option of continuous or pulse tones at 95 dB at 1m. The Midi (85mm) audible signal horn series provides the option of 10 selectable tones at 110 dB at 1m.

- **EvoSIGNAL Maxi TwinLIGHT 120mm Series**
  - The Maxi TwinLIGHT 120mm series provides the option of a permanent or blinking, or a 180 rpm rotating light.

- **EvoSIGNAL Mini and Midi Tricolor Series**
  - The tricolor series provides a permanent light that allows the color to be easily changed to red, yellow or green. Available in Mini (62mm) or Midi (85mm).

EvoSIGNAL Accessories

- The Mini, Midi, and Maxi series visual and audible beacon accessories include the required mounting adapter for the specific series/diameter size. The EvoSIGNAL accessories include:
  - Base mounting adapters
  - Bracket mounting adapters with cable gland

Features (all above):

- Voltage ratings:
  - Mini: 24 VAC/VDC
  - Midi: 115-230 VAC, 12/24 VDC
- Push-in connection terminals
- 2 year warranty
- IP66
- Base, tube, bracket and wall mount options
- Requires mounting adapter, sold separately

EvoSIGNAL Accessories

- Base, tube, bracket and wall mount options
- Requires mounting adapter, sold separately

For the latest prices, please check AutomationDirect.com.
Audible alarms provide electronic sound notification for machines, systems, and/or process alarms, with a range of alarm tone choices.

- Panel or surface-mountable rectangular housing
- BD Series offers 32 different alarm tones, 90 dB @ 1m
- BSV series can play up to 15 pre-recorded alarm sounds/notifications, 85 dB @ 1m

**AutomationDirect ECX Series 22mm Audible Alarm Buzzers**

- Pulse tone buzzers up to 80dB @ 10cm
- Intermittent sound when energized
- Volume up to 90 dB @ 1m, depending on model
- IP65 protection rating

**Fuji Electric Command Series 22mm and 30mm Alarm Buzzers**

- Intermittent/continuous electronic sound
- Models available with or without red LED indicators
- Volume up to 90 dB @ 1m, depending on model

**22.5mm Panel-Mount Audible Buzzers**

- 107 series non-illuminated with 80dB @ 0.1m in continuous or pulse-tone
- 109 series non-illuminated with 85dB @ 1m continuous or pulse-tone
- 110 series with 8 selectable tones at 100dB @ 1m

**Common Features:**
- Mount in 22.5 mm holes
- Models available with or without red LED indicators
- Continuous or pulse-tone models

**Patlite**

Electronic Sound Signal Horns

Patlite electronic sound signal horns are rugged bracket-mounted alarms suitable for many environments.

- Indoor/outdoor mounting
- 32 selectable electronic tones
- Maximum volume 110dB @ 1m

**Werma**

Electro-Mechanical Wall-Mount Signal Horns

Werma electro-mechanical wall-mount signal horns offer loud continuous tone notification. Models with trumpet extensions direct and amplify the sound.

- ST0 series with Trumpet, 148mm diameter, 100dB @ 1m, plastic housing, IP55 rated
- ST1 series with Trumpet, 132mm diameter, 106dB @ 1m, corrosion-resistant aluminum housing, saltwater proof, IP55 rated

**Stahl**

Panel or Surface Mount Alarms

Stahl signal alarms provide an audible warning, alert, or information in the event of equipment malfunctions, safety issues, or when systems are starting up. These devices are certified for use in hazardous areas and built to withstand the harshest environments.

- Alternating two-tone, alternating fast tone, and continuous tone models
- Panel or surface mount
- Aluminum/ABS plastic housing
- NEMA-YK, IP66 rating
- Prewired with a 3-meter (118") cable for easy installation