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Product Focus: Control and Signaling Devices

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 visual and/or 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 for workers and to protect equipment. From emergency pushbuttons used to completely disable a machine, system or process in the event of an emergency, to indicators that provide local or remote indication of hazards, warnings or unsafe conditions, these devices play an important role in industrial automation.

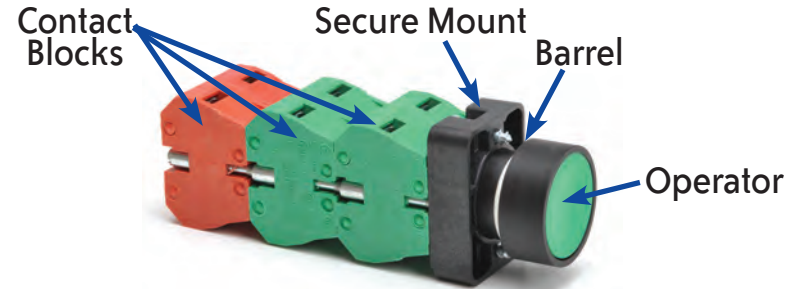


Pushbuttons

A pushbutton is a mechanical device designed to activate an electrical circuit when operated. Pushbuttons are available with various mechanical and electrical configurations.

Today's pushbuttons offer a range of sizes, configurations, and designs that are sure to fill the specific needs of your application. Specifications that might be considered when selecting a pushbutton include:

- **Barrel Size:** This is the pushbutton's barrel diameter that determines the operator size and mounting through-hole dimension. Larger diameter devices are more easily seen and operated, while smaller devices fit in tighter spaces and offer higher density.
- **Action:** The action is the method the pushbutton uses to activate the electrical circuit. Action type examples include momentary, maintained, push-pull, twist to release, key operated, and combinations of these.
- **Contact Type:** Refers to the type of contact(s) installed in the pushbutton's assembly, which can be normally open, normally closed, or a combination of both.
- **Operator Color:** Pushbutton operators are available in many static or illuminated colors to allow color coding for different functions.
- **Operator Size:** Pushbutton operators are available in various sizes, including oversized operators that are more visible and provide more surface to push.
- **Voltage Ratings:** Pushbuttons are designed to accommodate common AC or DC voltages to suit specific needs.
- **Agency Approvals:** Pushbuttons are designed to withstand a range of environments, from a general-purpose device to units that offer special ratings, such as IP69K-rated pushbuttons designed to be totally sealed and withstand harsh cleaning conditions to serve food, pharmaceutical and medical industries.



Flush



Low profile (flush with mounting ring) actuator reduces risk of accidental activation.

Extended



Exposed (extended) actuator offers more accessible push action.

Two Way



Offers two color coded actuators. Each actuator clearly performs a single specific function.

Illuminated



Illuminated actuators light up when the pushbutton has been activated.

Mushroom



Oversized head allows quick and sure activation with a hard-to-miss actuator.

Capacitive



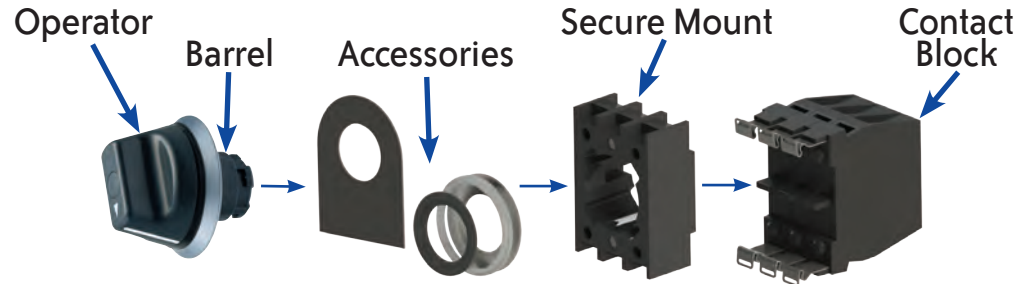
Electronic (no mechanical parts) pushbuttons that detect capacitance change for activation.

Switches

The purpose of a switch is similar to that of a pushbutton. A switch is normally a mechanical device designed to activate or deactivate an electrical circuit when operated. Most switches are designed with knobs, levers or as a joystick to perform simple multi-position actions.

Specifications that might be considered when selecting switches include:

- **Barrel Size:** This is the switch's barrel diameter that determines the operator size and mounting through-hole dimension. Larger diameter devices are more easily seen and operated, while smaller devices fit in tighter spaces and offer higher density.
- **Action:** The action is the method the switch uses to activate the electrical circuits. Action type examples include momentary (spring return), two (or more) position maintained, key operated, and combinations of these.
- **Contact Type:** Refers to the type of contact(s) installed in the switch assembly, which can be normally open, normally closed, or a combination of both.
- **Operator Color:** Switch operators may be available in illuminated colors to allow color coding for different functions.
- **Operator Type:** Switch operators are available in various shapes and styles to suit the application, such as knobs, levers and joysticks.
- **Voltage Ratings:** Switches are designed to accommodate common AC or DC voltages to suit specific needs.
- **Agency Approvals:** Switches are designed to withstand a range of environments, from a general-purpose device to units that offer special ratings, such as IP69K-rated pushbuttons designed to be totally sealed and withstand harsh cleaning conditions to serve food, pharmaceutical and medical industries.



Knob



Knob actuators provide easy grip to turn the knob as needed to make selections.

Long Lever



Similar to knob actuator but has a longer arm that makes it easier to operate.

Keyed



Similar to knob actuator but requires a key to unlock the switch and allow actuation.

Foot



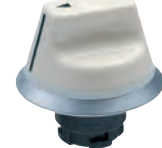
Designed to house a pedal actuator that operates the circuit when the pedal is stepped on.

Joystick



Joystick actuator is ideal when the control action may be more easily understood by physical position of the joystick.

IP69K



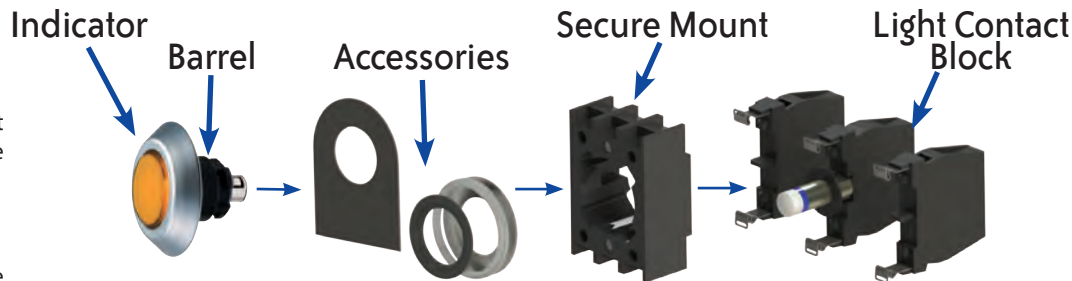
Switches designed for food processing, medical, pharmaceutical, and harsh conditions.

Indicator Lights

Indicator lights are illuminated devices available in a variety of colors that are used in industrial, warehouse and many other applications to indicate system status or alarm conditions.

Specifications that might be considered when selecting indicators include:

- **Barrel Size:** This is the indicator's barrel diameter that determines the operator size and mounting through-hole dimension. Larger diameter devices are more easily seen, while smaller devices fit in tighter spaces and offer higher density.
- **Indicator Technology:** Indicators are available with incandescent or LED lamps. Incandescent is the traditional bulb with filament used for indication. LED lamps may be preferred because they provide brighter illumination, lower heat, lower consumption and longer life. However, LED lamps cost more than incandescent bulbs.
- **Lens Style and Color:** Indicators are available in many colors, allowing different conditions to be identified by the color. Indicator lens styles include dome shape, flat, smooth transparent lens, or frosted diffuser lens that provides even lighting.
- **Voltage Ratings:** Indicator lights are designed to accommodate common AC or DC voltages to suit specific needs.
- **Agency Approvals:** Indicator lights are designed to withstand a range of environments, from a general-purpose device to units that offer special ratings, such as IP69K-rated pushbuttons designed to be totally sealed and withstand harsh cleaning conditions to serve food, pharmaceutical and medical industries.



Incandescent



Incandescent bulbs are the traditional filament bulbs used for indicators.

LED



LED lamps provide brighter illumination, low heat during operation, lower power consumption, and have longer life. However, they do cost more than incandescent bulbs.

Push to Test



Available for incandescent bulbs or LED lamps, this style allows users to push the lens to force light activation to confirm/test proper light operation.

IP69K



Typically use LED lamps and are specifically designed for applications requiring sanitary conditions such as food processing, pharmaceutical, and medical applications.

Visual Signaling Beacons

Visual signaling beacons provide illuminated status indication for machines, systems and processes. Modern designs and the latest LED technology provide exceptionally clear and bright signalling.

Specifications that might be considered when selecting a visual signaling device include:

- **Diameter:** The diameter of the beacon typically refers to the diameter size of the body, which is also the diameter of the lens. Body diameter is a matter of preference and visibility needs. For some models, the diameter of the mount is specified for the through-hole size required.
- **Indicator Technology:** The most common light technologies used for beacons include the traditional incandescent or halogen filament bulbs. Other options include LED or xenon lamps, which provide brighter illumination with lower power consumption and longer life.
- **Lens Color:** Beacon lenses are available in many colors, allowing different conditions to be identified by the color.
- **Light Function:** Beacon lights are available with a range of light functions that provide additional condition indication. For example, a permanent lit red beacon can indicate a condition that needs attention. However, a blinking red beacon can indicate a serious condition requiring immediate action. Functions available include permanent, blinking, flashing, and rotating modes.
- **Body Material:** Most beacons are constructed of materials such as ABS, polyamide and aluminum. The main consideration for body material depends on the environmental conditions where the beacon will be used.
- **Voltage Ratings:** Beacons are designed to accommodate common AC or DC voltages to suit specific needs.



Base Mount



Can be mounted on any surface and secured with screws from below.

Pole Mount



Can be mounted directly on a pole of the same size as the base.



Bracket Mount



Can be mounted on the side of machines, walls, enclosures, and practically anywhere needed.

Panel Mount



Can be mounted directly on a panel or enclosure. The mounting opening must be the correct diameter of the beacon mount to ensure proper mounting and maintain seal integrity.

Stacklights

Stacklights (aka signal towers) offer modular stackable components that provide illuminated and audible status indication for machines, systems and processes that can be seen and heard from a distance.

Specifications that might be considered when selecting a stacklight include:

- **Diameter:** Stacklights are available in a wide range of diameters, referring to the size of all the components, including base and light modules. Diameter preference usually depends on the desired visibility distance of the stacklight and its location.
- **Indicator Technology:** Stacklights are offered with a variety of light type choices, including traditional incandescent filament bulbs, or LED or xenon lamps, which provide brighter illumination with lower power consumption and longer life.
- **Lens Colors:** Stacklight elements are available in many colors, allowing the user to create their preferred stack arrangement; preassembled units offer typical industrial arrangements.
- **Light Function:** Stacklights are available with a range of light functions that provide additional condition indication. Examples of these functions include permanent, blinking, or flashing modes.
- **Tiers:** Pre-assembled stacklights are available in various tier levels of lights and colors; modular stacklights allow you to build a stacklight with your preferred tier levels.
- **Body Material:** Most stacklights are constructed of materials such as ABS, AES, polycarbonate and aluminum. The main consideration for body material depends on environmental conditions where the stacklight is located.
- **Voltage Ratings:** Stacklights are designed to accommodate common AC or DC voltages to suit specific needs.



Pre-assembled



Pre-configured light arrays for typical industrial indication applications in various tier levels, diameter sizes, and light color combinations.

Modular



Individual components in various diameter sizes, color and light function combinations can be chosen to best serve your needs.



Manual



Includes a control module where operator can turn elements ON or OFF as needed.

IP69K



Designed for applications such as food processing, medical, pharmaceutical, and harsh conditions.



Signal Column



Fixed multi-element light array in silver or transparent bodies with selectable blinking or permanent lights, and various alarm options.

Signal/Horn



Large dimensions provides clear and easy-to-see visual indication and includes audible signaling.

Audible Signal Devices

Audible signal devices provide notification for machines, systems and/or process alarms and are useful where visual indications are insufficient or impractical.

Specifications that might be considered when selecting an audible signaling device include:

- **Decibel Levels:** Audible signaling devices are available in various decibel levels. Common decibel levels range between 80db to 108db; selection typically depends on current sound levels where the device will be installed. A noisy environment will require a higher decibel level.
- **Mount Types:** Various mounting types are available, including panel, bracket and surface mounting.
- **Tone Types:** Audible signaling devices are available with different tone types to best serve the application. The most common tone types include continuous, Intermittent, multi-tonal, pulse, or a combination of these.



Hazardous Control Stations

Hazardous location control stations are designed to contain and extinguish explosions, and prevent the igniting of external hazardous atmospheres by the enclosed arcing device. In sealed or unsealed enclosures, they offer a variety of pushbutton, pilot light and switch configurations.

Specifications that might be considered when selecting a hazardous control station include:

- **Configuration:** Typical configurations include single pilot light, single pushbutton, single selector switch, two pilot lights, two pushbuttons, or a combination of these.
- **Action:** The action is the method the pushbutton or switch uses to activate the electrical circuit. Action type examples include momentary, push-pull, twist to release, key operated, and combinations of these.
- **Legend Plate:** The legend plate provides quick reference about the purpose of the control station. Various pre-engraved legend plates are available with text such as; 1 - OFF - 2, AUTO - HAND, AUTO - OFF - HAND, CLOSE, DOWN, EMERGENCY STOP, RESET, and many more.
- **Color:** Pushbuttons, selector switches and indicators are available in many colors to allow color coding for different functions.





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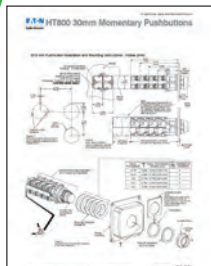
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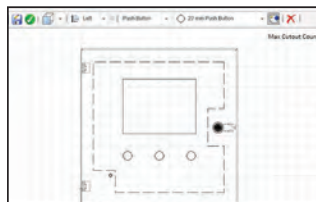
Many FREE resources are available 24/7



Support.AutomationDirect.com



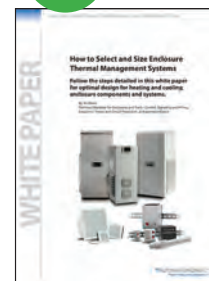
Manuals



Software for
many products
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and ready to use



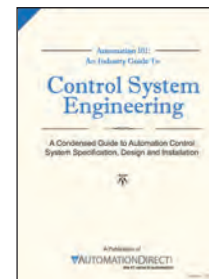
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Programmable Controllers

- ProductivityOpen Arduino-compatible industrial controller
- Productivity1000® micro-modular PLCs
- Productivity2000® micro-modular PLCs
- Productivity3000® modular PLCs
- Do-more® BRX®, H2 and T1H series PLCs
- CLICK® micro brick PLCs
- Numerous I/O expansion modules available including discrete, analog, temperature and high-speed (depending on model)
- DirectLOGIC® components still available for maintaining legacy systems.

YouTube



Universal Field I/O

Distributed I/O with
Modbus® TCP, EtherNet/
IP, Modbus RTU, and
DeviceNET support

CPU and I/O Comparison	AutomationDirect CLICK	AutomationDirect Do-more® (BRX)	AutomationDirect Productivity2000	US. Allen-Bradley CompactLogix
Base (if required)	N/A	N/A	\$81.00 P2-04B	N/A
Power Supply	\$41.50 CO-01AC	N/A	\$79.00 P2-01AC	\$531.00 1769-PAA
CPU	\$145.00 CO-10ARE-D (Ethernet built in)	\$489.00 BX-DM1E-36ER3 (Ethernet built in)	\$273.00 P2-550 (Ethernet built in)	\$9,140.00 1769-L45 (serial port only)
16 AC Inputs	\$42.00 CO-08NA (8-point AC Input)*	\$60.00 BX-16NA	\$113.00 P2-16NA	\$325.00 1769-IA16
16 24VDC Inputs	\$47.00 CO-16ND3	\$0.00 Included with CPU	\$74.00 P2-16NE3	\$283.00 1769-IQ16
8 Relay Outputs	\$42.50 CO-08TR	\$0.00 Included with CPU	\$54.00 P2-08TRS	\$327.00 1769-OW8I
8 Analog Input Channels (mA)	\$95.00 x 2 (2) CO-04AD-1	\$188.00 BX-08AD-1	\$222.00 P2-08AD-1	\$913.00 1769-IF8
Total System Price	\$447.00 🟢	\$590.00 🟢	\$896.00 🟢	\$11,519.00 🚫

*1D-08NA used in conjunction with eight AC inputs on CPU gives the 16 points needed
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HMI/Operator Interface

- C-more® operator interface HMI touch panels in various sizes up to 15 inches with wide screen options available
- C-more headless HMI - same functionality as C-more touch panels without display size restrictions
- C-more Micro® text and touch panels - 3, 4, and 6-inch models available starting at only \$101
- ViewMarq® LED message displays
- ATLAS® industrial monitors



AC and DC Drives

- DURAPULSE® variable frequency AC drives up to 300hp
- WEG CFW100 and CFW300 AC drives up to 5hp
- IronHorse® DC drives up to 3hp
- Cost-effective GS2 series VFDs up to 10hp
- Drive accessories
- Soft starters up to 480A



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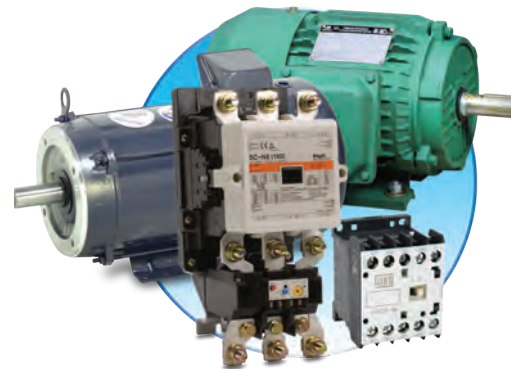


What our current customers think:
www.automationdirect.com/reviews

- Free PLC programming software (download)
- System configuration
- Free motion control software (download)
- Free C-more and C-more Micro HMI programming software (download)
- Free AC drive configuration and programming (built-in PLC) software (download)



Software



Motors and Motor Controls

- IronHorse® general purpose AC motors up to 300hp
- Electronic Overload Relays
- Stainless steel AC motors
- DC motors up to 2hp
- Marathon® inverter duty AC motors up to 100hp
- Compressor duty AC motors up to 5hp
- ODP motors
- 4-IN-1 motors
- Motor controls and contactors up to 300hp



Process

- Temperature controllers
- Digital panel meters
- Temperature sensors and transmitters
- Pressure sensors and gauges
- Level sensors and controllers
- Flow sensors and transmitters
- Signal conditioners
- Pipeline valves
- Current to pneumatic (I/P) transducers
- Timer relays, counters and tachometers

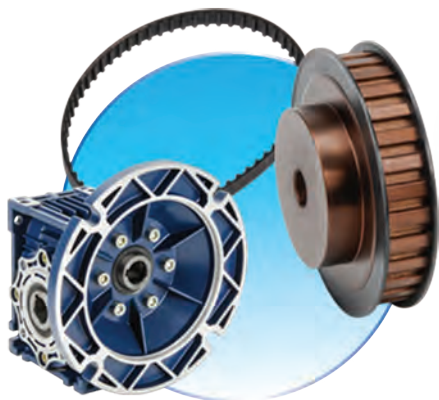
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Safety

- Reer MOSAIC safety controllers
- IDEM® and Dold® safety relays
- Speed/Standstill safety relay modules
- Magnetic safety switches
- Magnetic coded safety switches
- RFID coded safety switches
- Light curtains
- Safety relays
- Trapped key interlocks
- Safety mats and edges
- Safety bumper



Power Transmission

- Worm gearboxes
- Helical gearboxes
- Precision gearboxes
- Shaft mount gearboxes
- Timing belts and pulleys
- Couplings and bushings
- Shafting and shaft supports
- igus polymer bearings

Michael in TAMPA, FL wrote:

"I have been purchasing electronic parts for over 10 years and the products and service I have received from Automation Direct have never disappointed me. I will continue to purchase from here, keep up the good work ! I wish other vendors I have were as good as you."

Mike in EDMONTON, AB wrote:

"I'm an OEM and just started using the products. So far so good. Delivery was quick to Canada as well. "

Dennis in BERLIN, CT wrote:

"Great company. Second to none. Excellent prices. When I first started to use AD prox switches I was warned that anything that low a price won't last. That was 20 years ago. Since then two failures out 120 switches. This is a machine that runs 50 hours a week. I recommend their products to anybody. Pneumatic fittings are a bargain as well."



Relays & Timers

- Electro-mechanical relays
- Intrinsically Safe Relays
- Pump Monitoring Relays
- Solid state relays
- Relay sockets and accessories
- Timer relays
- Counters
- Tachometers
- Motor control relays
- Force guided relays



Tools

- Wera screwdrivers and torque tools
- Wera wrenches, ratchets and sockets
- Knipex® pliers, stripping and crimping tools
- Cable tie tools
- Hole cutting tools
- RUKO grinders and burrs
- SapiSelco® wire ties
- AutomationDirect interchangeable die crimping tool, self-adjusting crimper and rotatable die crimpers

Servo Systems

AutomationDirect
Price/Part Number

VS.

Allen-Bradley
Price/Part Number

Digital Servo Drive	\$483.00 SVA-2040 	\$1,410.00 2098-DSD-005 
100W Servo Motor with connectorized Leads	\$322.00 SVL-201 	\$660.00 TLY-A130T-HK62AA 
Breakout Board Kit for CN1 Control Interface	\$84.00 ZL-SVC-CBL50 + ZL-RTB50 	\$316.05 2090-U3BK-D4401 
10' Motor Feedback Cable	\$56.00 SVC-EFL-010 	\$99.10 2090-CFBM6DF-CBAA03 
10' Motor Power Cable	\$33.50 SVC-PFL-010 	\$112.00 2090-CPBM6DF-16AA03 
Configuration Software	FREE SV-PRO* 	\$85.02 2098-UWCPRG 

*SureServo Pro software is FREE when downloaded and is also available for \$9.00 on a CD

Complete 1-axis 100W System \$978.50 \$2,682.17

All prices are U.S. list prices. AutomationDirect prices as of 4/17/2020.
The Allen-Bradley 100W system consists of part numbers shown in table above with prices from
www.wernerelectric.com, www.todaycomponents.com 4/17/2020.

Joseph in FAIRLAND, IN wrote:

"Great web site. Everything is easy to find. I like the fact that you place PDF and information next to the product I am researching. This is very helpful in understanding all the details necessary to determine if the item I am looking at will work in my project. Large selection of Automation devices, quality products at affordable prices. I am a maintenance technician and purchase items for my home test bench to work out problems at home, as well as buying product for work projects."



Motion Control

- SureStep® drives and NEMA motors
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- Encoders
- Linear slides
- Stepper and servo gearboxes



Sensors

- Proximity sensors
- Photoelectric sensors
- Limit switches
- Precision limit switches
- NEMA limit switches
- Laser sensors
- Color and contrast sensors
- Area sensors
- Encoders
- Current and voltage sensors
- Pressure sensors and gauges
- Temperature sensors, switches, transmitters and thermometers
- Liquid level sensors
- Flow sensors
- Ultrasonic sensors
- Fork sensors

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Pushbuttons, Switches and Lights

- KILLARK® hazardous location control stations
- IDEM emergency stops
- Fuji®, Schmersal and Eaton metal/
plastic 22 and 30mm pilot devices
- IP69K-rated selector switches, pilot devices
and pushbuttons from Schmersal
- Hazardous Location Control Stations
- Capacitive Pushbutton Switches
- WERMA audible devices and visual signals
- WERMA and Patlite stacklights
- IP69K-rated Patlite stacklights
- Patlite signal towers and LED lighting
- Foot switches



Communications

- Industrial managed and unmanaged Ethernet switches
- StrideLinux VPN routers and cloud services for secure remote access
- Pocket Portal IoT Bridge
- MQTT Gateways
- Modbus gateways
- Network adapters/ converters
- Ethernet cables
- Power over Ethernet (PoE) switches



Pneumatics

- Tubing, hose and fittings in a wide variety of configurations
- Air cylinders and position switches
- Solenoid valves
- Rodless air cylinders
- Modular solenoid valves (Ethernet or hardwired)
- Air preparation and air relief valves
- Pushbutton valves
- Total Air Prep (TAP) all-in-one units
- Rotary actuators and grippers
- Pressure switches, transmitters, and transducers
- Pneumatic pushbuttons and limit switches



Power Products

- Acme Electric®, Hammond and Jefferson Electric® transformers
- Rhino® DC power supplies and converters
- Mersen surge protectors
- Roxburgh and Eaton line filters and surge protectors
- Roxburgh power outlets
- ACME Electric encapsulated transformers
- Edison® power distribution blocks
- Bryant® electrical plugs, connectors and receptacles, and other wiring devices
- AcuAMP® AC current transformers
- Socomec multifunction power meters
- Trumeter graphical panel meters



- Regulators
- Solenoid valves in nylon or stainless steel bodies
- Hand valves
- Check valves
- Push-to-connect water fittings
- Lead-free brass fittings
- Tubing
- Hose
- Hose clamps

Water (Potable) Components



Circuit Protection

- Eaton UL 489 miniature circuit breakers
- Fuji UL 489 molded case circuit breakers
- Eaton UL1077 supplementary protectors
- Edison fuses, fuse holders and fuse blocks
- Socomec, Gladiator® and Bryant® disconnect switches
- Bryant UL 508 manual motor controllers
- Socomec Manual Transfer Switches



Terminal Blocks and Wiring

- Electrical hook-up wire / building wire
- Konnect-It® and DINnectors® terminal block systems
- Edison power distribution blocks
- Bryant power wiring devices
- Wire duct and tubing
- Wire end connectors cable glands, connectors and fittings
- ZIPport® connectors
- Multi-wire connectors
- Sensor cables
- DYMO XTL Label Makers and Labels
- General, latching, UV resistant, releasable, mounting head, identification, and metal-detectable cable ties



Enclosures

- Over 4,422 NEMA rated enclosures to choose from
- Stainless steel, carbon steel and aluminum enclosures
- Polycarbonate enclosures and PVC enclosures
- Thermoplastic ABS enclosures
- NEMA rated fiberglass, polycarbonate enclosures
- Custom cut-out enclosures
- Heating, cooling and climate control
- Lighting

Enclosures

	AutomationDirect Hubbell/Wiegmann Price/Part Number	VS.	Hoffman Price/Part Number
NEMA 1 wall mount 24 x 24 x 08"	\$222.00 N1C242408LP		\$367.22 A-24N24BLP
NEMA 12 wall mount 20 x 16 x 08"	\$290.00 N12201608		\$500.20 A-201608LP
NEMA 12 free-standing mount 60 x 60 x 12"	\$1,966.00 N12606012		\$2,934.66 A-606012LP
NEMA 4 wall mount 20 x 20 x 06"	\$396.00 N4202006		\$646.60 A-20H20ALP
NEMA 4X wall mount 20 x 20 x 06"	\$780.00 SSN4202006		\$1,563.50 A-20H2006SSLP
NEMA 4/12 wall mount 36 x 24 x 08"	\$377.00 N412362408C		\$634.40 C-SD36248

*All prices are U.S. published prices. AutomationDirect prices as of 4/17/2020. Hoffman prices are taken from www.alliedelec.com 4/17/2020. Prices may vary by dealer. Many other part numbers are available from all vendors.



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- Continuous flexing motor supply cable
- Continuous flexing industrial Ethernet cable
- Control and signaling cable
- DLO, RHH, RHW-2 Heavy Duty Flexible Power Cable
- Power Machine Tray Cable
- VFD / Servo Cable with single pair
- Tray rated continuous flexing control cable
- Continuous flexing profinet cable
- Profibus cable
- Sensor / actuator cable

Minimum lengths of 10ft unless otherwise indicated

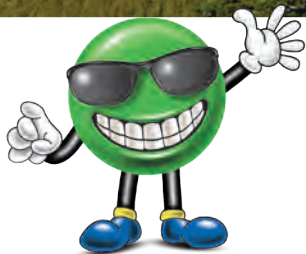
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Our campus is located about 45 minutes north of Atlanta, GA, USA *We're all here* - our sales and technical support teams, purchasing, accounting, and of course our multiple huge warehouses and speedy logistics team.



AutomationDirect.com has been a leader in providing affordable, quality industrial control products to the U.S. and Canada for more than two and a half decades.

As a privately-held efficiently run company, we take pride in serving our customers the way they want to be served - honestly and fairly. We do everything we can to accomplish this day in and day out.



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