

INDUSTRIAL AUTOMATION

PRODUCT GUIDE


GraybaR



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NETWORK CONNECTIVITY

LioN-X® and LioN-Xlight®

Belden

The new, innovative LioN-X portfolio combines IO-Link master with completely new features such as OPC UA, Security and up to 2A output current per port. The LioN-X family offers a fast, reliable and secure solution for collecting, converting and transmitting critical data in automated production environments.



IOx

CISCO

The Cisco IOx application environment combines Cisco IOS and the Linux OS for highly secure networking. Execute IoT applications with secure connectivity with Cisco IOS software, and get powerful services for rapid, reliable integration with IoT sensors and the cloud.



DAP

Panduit

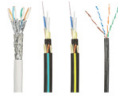
The Data Access Port provides data port and electrical outlet access to equipment without the safety hazards of opening the panel. The access port provides availability to log in to the network at the work site and can be used for reprogramming internal controllers.



Industrial Connectivity

Panduit

These products have the purpose to provide real-time analytics, eliminate downtime, all while improving energy efficiency and the total cost of ownership so that you get the full experience of Panduit connection.



IntraVUE

Panduit

The industrial software, IntraVUE™ Edge, is a permanently licensed appliance. IntraVUE™ Edge continuously monitors the status of all devices and switches within the network. IntraVUE™ Software will run perpetually, offering long term insights into network functionality, performance, and utilization statistics. Easy to deploy, there is no virtual machine or server commissioning required. IntraVUE™ Edge only requires IP configuration on the client network.



Network Zone System

Panduit

The Panduit Network Zone System (NZS) is designed to rapidly deploy an EtherNet/IP*** network between the enterprise and plant floor. Switches, connectivity and power features minimize engineering and installation time resulting in up to 75% faster implementation.



The Universal Network Zone System provides usability similar to IT switches for industrial switches on the plant floor. This ensures that management and control of the network does not get in the way of making the most effective use of available network data.

FL SWITCH 1000

Phoenix Contact

The 1000 series switches are fully Plug and Play capable, and do not need to be configured. Users therefore find them easy to operate and install. Furthermore, status LEDs on the front and side of the switches provide basic information on the connection status at a glance. This means that an interrupted connection, e.g., due to a faulty cable, can be diagnosed quickly.



VARIABLE FREQUENCY DRIVES

Altivar 320 (ATV320)

Schneider Electric

Simply the best choice for simple and advanced machines. Robust and safe, the Altivar 320 offers easy integration, proven motor control and connectivity. From 0.25 to 20 HP



Soft Starters ATS01, ATS22, ATS48

Schneider Electric

Open and easy to integrate in your installation, Altistart is a wide and consistent range of soft starters that makes your machines last longer



ATV600

Schneider Electric

Altivar Process ATV600 Drives has embedded services, connectivity and application functions dedicated to fluid management and is suitable for applications such as pumps, fans, and compressors in the Process Industry. Ideal for segments including Water & Wastewater, Marine or Buildings, from 0.75 kW to 2600 kW.



INDUSTRIAL CONTROLS

Compact Circuit Protector for Class CF CUBEFuse™

Bussmann by Eaton

The revolutionary Bussmann™ series Compact Circuit Protector (CCP) for Class CF Low-Peak™ CUBEFuse™ delivers the smallest footprint compared to any Class J disconnect solution – requiring up to 69% less space.

The CCP is a UL® 98 Listed fused, branch-circuit disconnect that packs up to a 200 kA short-circuit current rating (SCCR) at 600 V to help increase equipment SCCR. These high ratings

and compact design make the CCP ideal for industrial control panels, machinery and HVAC applications.



CUBEFuse™

Bussmann by Eaton

The revolutionary Bussmann™ series Low-Peak™ CUBEFuse™ delivers the smallest footprint compared to any Class CC, J or RK fuse solution – requiring up to 70% less space when combined with its unique fuse holder. Further, the CUBEFuse delivers the smallest footprint compared to any Class J solution – requiring up to 69% less space when combined with its unique UL® 98 Listed Compact Circuit Protector switch. Freeing up space is powerful. And the CUBEFuse does just that, while packing up to a 300 kA interrupting rating and enabling higher panel SCCR. Integrates with the Bussmann series Compact Circuit Protector (cat. no. CCP2) or Bussmann series CUBEFuse holder (cat. no. TCFH_N) to minimize panel space



UL High SCCR Surge Protective Devices

Bussmann by Eaton

Eaton's Bussmann™ series UL® Listed open Type 1 modular surge arresters feature local, easyID™ visual indication and standard remote contact signaling.



OEM Line Isolation (OLI) Switch

Bussmann by Eaton

The OLI switch provides an external disconnecting means for industrial control panels. It allows an operator to access the control panel without exposure to the line-side voltage, thus enhancing safety and allowing for reduced PPE, which improves worker dexterity and mobility.



Advantage Series Switch-Rated Pin and Sleeve

Hubbell Wiring Device-Kellems



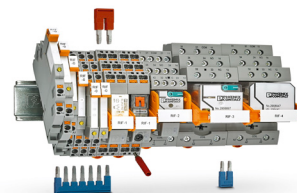
Demanding environments call for a high performance pin and sleeve connections. Hubbell has taken the highest performing plugs, connectors, & receptacles, and made them even better. To develop the Advantage Series we took Hubbell's existing Pin and Sleeve Devices, increased the horsepower ratings, added the switching capabilities of a general purpose branched disconnect, and wrapped it up in a compact design. The Advantage™ Series Switch Rated IEC Pin & Sleeve Devices are available in 30, 60 and 100AMP versions and are approved for both motor and branch circuit disconnects.

RIFLINE Complete

Phoenix Contact

Phoenix Contact brings industrial relays into the 21st Century with RIFLINE Complete; an innovative line of general purpose ice-cube relays. RIFLINE Complete offers screw and PT push-in terminations, easy marking, and universal bridging.

RIFLINE Complete consists of fully-assembled relays and individual components. The relays are available in multiple form-factors and contact arrangements. RIFLINE Complete offers a solution for virtually every switching application.



TeSys Island Digital Load Management System

Schneider Electric

The next generation of motor control that provides insight to load performance, device health and much more. After commissioning, TeSys island can switch, help protect, and manage motors and other electrical loads up to 40 HP and other electrical loads up to 80 amps installed in an electrical control panel.



INDUSTRIAL COMPUTING

Harmony IPC

Schneider Electric

Advanced operator interface and industrial relays Harmony operator interface and industrial relays enhance operational efficiency and equipment availability across industrial and building applications. Harmony includes intelligent connected products and edge terminals that visualize, gather and process data, enabling informed operator decisions



SENSORS

Industrial Asset Vision

CISCO

Cisco Industrial Asset Vision is an all-in-one solution that simplifies your asset and facility monitoring in outdoor or industrial indoor environments. With a choice of eleven new Cisco sensors pre-integrated with a Cisco LoRaWan gateway and a new cloud-based data operations and management dashboard – the solution is secure, scalable and deploys in minutes.



Inductive and Capacitive Sensors

Telemecanique by Schneider Electric

Regardless of the material you need to detect - without contacting it, Telemecanique Sensors has you covered with a full range of high quality and high performance inductive and capacitive sensors. For detecting metal objects up to 60mm, our range of inductive sensors feature the latest in high performance technology. For non-contact detection of any other type of material up to 20mm, our capacitive sensors match that same top level of performance.



Photoelectric Sensors

Telemecanique by Schneider Electric

Telemecanique Sensors XU range offers a full line of photoelectric proximity sensors dedicated to material handling, packaging, labeling, assembly, lift & escalators or food & beverage industries.



Ultrasonic Sensors

Telemecanique by Schneider Electric

Ultrasonic Sensors (formerly known as OsiSense) perform contactless, reliable, and high-performance detection regardless of the target's shape, texture, color, or transparency. Capable of withstanding even the harshest industrial environments, XX Ultrasonic Sensors operate in diffuse, reflex, and thru-beam modes. This range of sensors even includes long distance detection models. The integral connector and the available cabling and fixing accessories make these ultrasonic sensors extremely easy to install.



Pressure Sensors

Telemecanique by Schneider Electric

For over 70 years, Telemecanique Sensors has been setting the standard for pressure switch innovation and reliability, with our Square D brand clearly establishing itself as the #1 pressure switch in the industry. Using the same spirit that created the Square D legacy, we have taken pressure control to the next level, integrating today's advanced pressure control features into high performance sensors that are as reliable as they are easy-to-use. Installation and set-up are a snap and quickly put you in complete control of your machine pressure.



MOTION CONTROL AND ROBOTICS

Lexium Steppers Drives and Motors

Schneider Electric

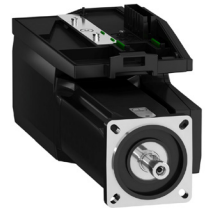
The SD3 is a universally applicable stepper motor drive. The package is ready for operation within a very short period of time. Connect the stepper motor to the drive, set the current and step resolution – ready!



Lexium Integrated Drives

Schneider Electric

With servo motor and servo drive integrated in one housing, the Lexium 32i is designed for application areas requiring high precision and advanced motor control.



Lexium Servo Drives and Motors

Schneider Electric

Lexium 32 is a servo drive range with three servo drive models and two servo motor families plus an intelligent selection of options. It provides you with the drive and motor combination that has exactly the right power, performance and functionality and that comes at the right price.



Modicon Motion Controller

Schneider Electric

Modicon M262 controllers embed Industrial Internet of Things (IIoT) protocols and encryption to provide direct cloud connectivity & digital services.



ENCLOSURES

Netshelter RX Enclosure Family

APC

Netshelter rugged enclosures are rated for rugged, harsh environments. Bring networking and computing exactly where you want it - like factory floor or warehouse - with NEMA & IP ratings to protect from dust and moisture.



IEC

nVent Hoffman

nVent HOFFMAN's comprehensive Global IEC rated standard product range includes mild steel and stainless steel floor stand, wall mount and terminal box enclosure solutions. Accelerate the specification and installation process through interchangeable accessories and tool-free assembly, while streamlining ordering with a single global part number.



UFS

nVent Hoffman

Universal Free-Stand Enclosure is designed to protect equipment and employees in industrial manufacturing applications. The one- and two-door models are bayed together to create application-specific configurations for indoor and outdoor use.



Spectracool With Advanced Corrosion Protection

nVent Hoffman

The newly standardized corrosion solutions for HOFFMAN'S SpectraCool Series of air conditioners provides closed-loop cooling for environments exposed to corrosive chemical elements. Products in these environments are prone to accelerated failure rates due to chemical attack. Hoffman utilizes advanced coatings to protect components critical to the performance of the air conditioner.



Hyshed

nVent Hoffman

Protect your critical electrical equipment with HyShed, the state-of-the-art sanitary washdown enclosure solution. HyShed is specially designed to withstand high pressure, high temperature washdown cleaning procedures in Food & Beverage applications. Only HyShed gives you the ultimate power to quickly and more easily preserve the integrity of your sanitary conditions and equipment, while promoting lean processes.



Micro Data Center

Panduit

Quickly and reliably deploy rack mount equipment while protecting the critical, physical media that makes up the industrial network on your plant floor. This industrial pre-configured solution brings together a more reliable connectivity from the shop floor to the top floor.

With a dynamic rated option, as well as NEMA 12 rated option, the Micro Data Centers meet industrial telecommunication and architectural standards functioning as the central consolidation and linking point for networks, servers and switches to enable both process and discrete automation activities.



Industrial Distribution Frame

Panduit

The IDF innovative design provides consistent equipment deployment with faster installation and can significantly lower the risk of downtime due to switch overheating.

- Quick and sufficient deployment and protection of rack mount Ethernet switches
- Rapid and easy maintenance of its network switch equipment
- 25% faster IDF installation than a non-pre-configured IDF installation
- 3 times the cooling capacity over typical enclosures



WIRE AND CABLE

OptiTuff™ Mini Fiber Cable

Belden

OptiTuff is an advanced, ruggedized thermoplastic material, used as a cost-effective, top-quality armoring alternative to traditional metal armoring for fiber cable. This all-dielectric armor provides superior durability and crush resistance, allowing cables to be more flexible and easier to handle and install than metal armored cable—with no grounding or conduit required.



DataTuff® Cat 6A High Flex Industrial Ethernet Cables

Belden

Designed for tight industrial spaces and with best-in-class torsion tolerance, Cat 6A High Flex cables deliver reliable, robust performance for high movement applications in harsh environments.



MONITORING, TEST AND MEASUREMENT

ii900 Acoustic Imager

Fluke

While most manufacturers know that these types of leaks exist, it has been too time consuming and tedious to address them until now. With the Fluke ii900 and minimal training, your maintenance technicians can begin checking for leaks during their typical maintenance routine—even during peak operation hours.



Ti480 PRO Infrared Camera

Fluke

Inspect multiple complex targets or targets from varying distances.

Capture a clear, accurate image focused throughout the field of view with MultiSharp™ Focus. The camera automatically processes a stack of images focused near and far.



378FC Clamp Meter

Fluke

The Fluke 378 FC true-rms clamp meters use FieldSense™ technology to make testing faster and safer, all without touching a live conductor. You get accurate voltage and current measurements through the clamp jaw. Simply clip the black test lead to any electrical ground, put the clamp jaw around the conductor and see reliable, accurate voltage and current values on the display.



MDA-550 Series III Motor Drive Analyzer

Fluke

Simplify complex motor-drive troubleshooting with guided test setups and automated drive measurements that provide reliable, repeatable test results.

- Measure key motor-drive parameters
- Perform extended harmonics measurements
- Conduct guided measurements
- Use simplified measurement setup
- Create reports quickly and easily
- Measure additional electrical parameters



Fluke T6 Electrical Testers With FieldSense Technology

Fluke

Measure voltage...without test leads. Measure voltage up to 1000 V ac through the open fork, without test lead contact to live voltage.+ Without opening covers or removing wire nuts. On wires up to AWG 4/0 (120 mm²), carrying as much as 200 A. It will change your job. Safer. Faster. Easier.



InSIGHT Data Monitoring

Hubbell Wiring Devices-Kellems

Hubbell's line of intelligent Data Monitoring devices include Smart Pin and Sleeve Devices, power cables, and circuit & environmental monitors. These devices provide data directly at the point of use for analytics while helping to predict potential process changes. Important power and environmental data provided ranges from revenue grade billable metering, voltage, power, and internal device temperature.



PLC AND HMI

HMI (Human Machine Interface)

Schneider Electric

The Harmony HMISTM6 range meets IIoT challenges at the Connected Products level, by providing secure communication, connectivity, and efficiency to the required software and applications at the Edge Control level, thus opening up more business opportunities.



Small PLC (Programmable Logic Controller)

Schneider Electric

The Modicon M262 Logic/Motion controller offer is made for performance demanding machines; M262 controllers are IIoT-ready (MQTT, HTTP, OPC UA, TLS, etc.) and combine logic, motion, and safety control applications.



POWER SUPPLY

APC Smart-UPS Family Including the Ultra 3kW

APC



Smart-UPS family includes models for nearly every application and budget to protect critical data from costly interruptions by supplying network-grade power reliably and efficiently. Smaller, lighter, more powerful, leaves more room in limited spaces and protects more equipment at the edge.

Schneider Electric Industrial UPS – 24V DC DIN Rail

APC

Schneider Electric Easy UPS provides essential battery backup protection for your industrial automation equipments. The new 24V DC din rail mounted Schneider Electric Easy UPS is a reliable and extendable UPS designed to complement the Schneider Electric industrial controls portfolio, providing a complete industrial solution to OEMs and system integrators.

TRIO-PS67

Phoenix Contact

New TRIO IP67 power supplies provide engineers with the flexibility to design applications to meet their specific needs by relocating power supplies previously in large, centralized control cabinets to mount them directly on the machines they power. Eliminating the restrictions of a control cabinet allows engineers to put the power where it is needed, making the application more efficient.



MACHINE SAFETY

Safety Limit Switches

Schneider Electric

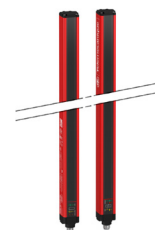
When a running machine necessitates a door or guard remain closed and an idle machine means the machine should be accessible, there is no better solution than the Preventa XCS line of Safety Interlock Switches. The XCS line of Safety Interlock Switches is one of the most comprehensive catalogs of industrial safety switches on the market, providing a range of options for most machine applications. XCS protects operators by stopping heavy or light industrial equipment with quick rundown time when the gate is opened.



Safety Light Curtain

Schneider Electric

Preventa XUSL Safety Light Curtains from Telemecanique Sensors provide automatic machine shutdown when a restricted area is breached.



Safety Interlock Switches

Schneider Electric

When a running machine necessitates a door or guard remain closed and an idle machine means the machine should be accessible, there is no better solution than the Preventa XCS line of Safety Interlock Switches. The XCS line of Safety Interlock Switches is one of the most comprehensive catalogs of industrial safety switches on the market, providing a range of options for most machine applications. XCS Coded Magnetic Switches protect operators by stopping the light industrial machine with quick rundown time when a gate with imprecise guidance and/or subject to frequent washing is opened.



PSRclassic Safety Relays

Phoenix Contact

PSRclassic safety relays from Phoenix Contact have a long proven track record. Thanks to the 2-channel wiring and force-guided contacts, you can reliably switch functions such as two-hand control devices or light grids.

Screw or spring connection technology and status LEDs ensure fast wiring of contacts and clear diagnostics.







Graybar, a Fortune 500 corporation and one of the largest employee-owned companies in North America, is a leader in the distribution of high quality electrical, communications and networking products, and specializes in related supply chain management and logistics services.

Graybar has the power and stability of a big company and the integrity and drive of an employee-owned business. Graybar is certified against the latest ISO 9000 standard.

Discover how Graybar can work to your advantage.

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