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DIRECT AUTOMATION Industrial Controls

MAY 2024 CATALOGUE

From simple to advanced control, we supply products to suit your project...and your budget!

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www.directautomation.com.au



PRODUCTIVITY 1000 CPU WITH UP TO 50MB USER MEMORY P2



SINGLE, DOUBLE OR 3-LEVEL TERMINAL BLOCKS = LOW-COST SENSOR WIRING



INDUSTRIAL AND COMMERCIAL APPLICATIONS P19

WERA HAND TOOLS FOR FOR



CONNECT, ACCESS AND CONTROL YOUR INDUSTRIAL DATA WITH KEPWARE.

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PLCs AFFORDABLE CONTROLLER FAMILIES

Regardless of your project or system needs, we have a PLC to match your specs and your budget. So whether you're building a simple process or a complex machine, affordable PLCs are just a click away, and backed with support you can rely on.

THE BEGINNER'S BEST FRIEND SIMPLE CONTROL (Simple Numerical) **ADDITIONAL** FEATURES w **CLICK PLUS ANALOGUE ETHERNET** INTEGRATED DATA **MQTT** LOGGING **SECURITY PROTOCOL** SERIAL DISCRETE **CUSTOM** HIGH-SPEED Wi-Fi HIGH-SPEED CAPABILITY I/O SLOT **OUTPUTS** PID **INPUTS PWM** USB **OUTPUTS** ADVANCED ALL-PURPOSE CONTROL ADVANCED CONTROL (Tag name Based) Productivity Series. ADVANCED DATA PWM **ANALOGUE ETHERNET** MOTION LOGGING **OUTPUTS** MOBILE ABS DISCRETE **SERIAL** PID **ACCESS CERTIFIED** MODULE 50MB **HIGH SPEED** USB WEB SERVER DATA DISPLAYS USER MEMORY HOT **BUILT-IN** INTEGRATED SWAPPABLE SCALABLE **EXPANSION PLC** PS-AMC I/O **PORTS** SIMULATOR PLC LINE MOTION PLC MQTT/ MQTTS CONTROLLER, GS DRIVE & STRIDELINX VPN **PROTOCOL** X FIELD I/O PROGRAMMING POWERHOUSE ADVANCED CONTROL (Fixed Memory Addressing) Domore BR Direct/Koyo ADVANCED DATA HTTP/ HTTPS ETHERNET **ANALOGUE MOTION** LOGGING **PROTOCOL** DATA FILE DMX512 DISCRETE SERIAL PID MANAGEMENT PROTOCOL BUILT-IN **PWM** PI C MQTT/ MQTTS USB HIGH SPEED **OUTPUTS SIMULATOR PROTOCOL**

UNIVERSAL

I/O

CUSTOM

COMM SLOT

200 +

INSTRUCTIONS

WEB SERVER/ REST API INTEGRATED

SECURITY

EMBEDDED

HELP VIDEOS

The CLICK PLC family features a compact size and easy programming, ideal for small applications and beginner projects. The CLICK PLUS series adds features such as Wi-Fi capability, motion control, data logging, and more.

CPU Models starting at...







CLICK PLUS

1x Option Slot, Ethernet, serial and microB-USB ports

\$283 (C2-01CPU-2)



CLICK PLUS

2x Option Slot, Ethernet,
serial and microB-USB ports



CLICK BASIC
Basic CPU Module



CLICK ETHERNET
Ethernet Analog CPU
Module

The Productivity PLC family offers the utmost versatility in both hardware and software. With tag name programming, easy device integration that includes PS-AMC motion controllers, GS drives, and other WOW factors such as analog module data displays, Productivity PLCs are a perfect fit for almost any application.

CPU Models starting at...







P1000 50MB User Memory 4 built-in comms



P2000 50MB Memory 5 built-in comms



50MB Memory 6 built-in comms



Arduino-compatible CPU

The Do-more/BRX PLC family has one of the most advanced instruction sets in the market and many other features, including REST API functionality, that allow it to stand strong against any challenge. With IIoT Integration, data logging, motion control, high-speed I/O, abundant processing power, and customizable communications, BRX PLCs can easily satisfy the changing demands of industrial automation projects.

Ethernet Models starting at...





36 BUILT-IN I/O

14 configurations from which to choose

LARGEST MPU



18 BUILT-IN I/O

2 configurations from which to choose

\$801 (BX-DM1E-10ER3-D)

SMALL MPU 10 BUILT-IN I/O

2 configurations from which to choose





SMALLEST MPU NO BUILT-IN I/O

2 configurations from which to choose

HMISC-MORE CM5 SERIES HMIS

NEW! C-MORE CM5 SERIES HMI

The C-more CM5 series provides many hardware options with a variety of screen sizes and communication capabilities. All CM5 panels have serial and Ethernet ports that support many of the most popular industry protocols, including EtherNet/IP and Modbus. The included USB ports provide in-an-instant connections for programming and peripherals.



CM5-T4W \$599

C-more CM5 series touch screen HMI, 4.3in colour TFT LCD, analog resistive, widescreen, 480 x 272 pixel, WQVGA, LED backlight, (1) Ethernet, (2) serial and (2) USB ports and (1) memory card slot.



CM5-T12W \$2089

C-more CM5 series touch screen HMI, 12.1in colour TFT LCD, analog resistive, widescreen, 1280 x 800 pixel, WXGA, LED backlight, (2) Ethernet, (3) serial and (4) USB ports and (1) memory card slot.



CM5-T7W \$899

C-more CM5 series touch screen HMI, 7in colour TFT LCD, analog resistive, widescreen, 800 x 480 pixel, WVGA, LED backlight, (1) Ethernet, (2) serial and (2) USB ports and (1) memory card slot



CM5-T15W \$2899

C-more CM5 series touch screen HMI, 15.6in colour TFT LCD, analog resistive, widescreen, 1366 x 768 pixel, HD, LED backlight, (2) Ethernet, (3) serial and (4) USB ports and (1) memory card slot.



CM5-T10W \$1539

C-more CM5 series touch screen HMI, 10.1in colour TFT LCD, analog resistive, widescreen, 1024 x 600 pixel, WSVGA, LED backlight, (2) Ethernet, (3) serial and (4) USB ports and (1) memory card slot.



CM5-T22W \$4620

C-more CM5 series touch screen HMI, 21.5in colour TFT LCD, analog resistive, widescreen, 1920 x 1080 pixel, FHD, LED backlight, (2) Ethernet, (3) serial and (4) USB ports and (1) memory card slot.

FREE C-MORE CM5 SOFTWARE

CM5-PGMSW C-more Programming Software can be downloaded at no charge. The software requires a USB port or Ethernet connection* on your PC to connect to the C-more panel. Software Help Files are included in the download. This software programs all the C-more panels.

CM5 COMPATIBILITY

C-more HMIs can support many brands of PLCs and in particular include many protocols for the Allen-Bradley PLC brand. C-more's A-B Ethernet drivers allow the simple connectivity of multiple panels and/or multiple Allen-Bradley PLCs.

* Please refer to the technical specifications for further details.

Supported Drivers

AutomationDirect:

- Do-more, Productivity, CLICK, DirectLOGIC, Think & Do PLCs
- GS Drives
- SOLO Temperature Controllers
- K-Sequence
- DirectNET
- ECOM Ethernet

Modbus RTU

Modbus TCP/IP

Allen-Bradley:

- A-B DF1
- A-B EtherNet/IP Client
- A-B EtherNet/IP Server
- Generic IO Messaging

GE:

- 90/30, 90/70, Micro 90, VersaMax Micro (SNPX)
- 90/30, Rx3i (SRTP Ethernet)

Omron:

- · Omron Host Link Adapter
- Omron FINS (Serial and Ethernet)

Mitsubishi:

- FX Series CPU
- FX-1N(C), 2N(C), 3U(C) CPU
- Q Series (QO2, Q02H, Q06H, Q12H, Q25H CPU)
- Q/QnA (Serial & Ethernet)

Siemens:

- S7-200 (Serial: PPI)
- S7-200 (Ethernet: ISO over TCP/IP)
- S7-300 (Ethernet: ISO over TCP/IP)
- S7-400 (Ethernet: ISO over TCP/IP)
- S7-1200 (Ethernet: ISO over TCP/IP)



C-MORE EA9 SERIES HMI

EA9-T7CL-R \$1425

Touch screen HMI, 7in colour TFT LCD, widescreen, 800 x 480, WVGA, supports (1) serial, (1) Ethernet and (2) USB ports and (1) memory card slot.

EA9-RHMI \$1054

Headless HMI, supports (2) serial, (1) Ethernet, (2) USB ports and (1) HDMI audio/video out and (1) memory card slot.

EA9-PGMSW FREE

C-more Windows programming software. Free download. Requires USB or Ethernet connection to touch panel





C-MORE EA3 SERIES HMI

EA3-S3ML-RN \$302

Non-touch 3in monochrome STN LCD, 128 x 64 pixel, LED backlight, supports (1) serial port.

EA3-S3ML-R \$426

Touch screen HMI, 3in monochrome STN LCD, 128 x 64 pixel, LED backlight, supports (1) serial port

EA-MG-PGMSW FREE

C-more Micro Windows programming software, USB or free download Requires USB port connection from PC to C-more Micro panel

LED MESSAGE DISPLAYS VIEWMARQ



VIEWMARQ LED DISPLAYS

| MD4-0112T-1 | \$1286 | 1 line x 12 characters. 50mm max character size. Approx viewing distance 100ft. |
|-------------|--------|--|
| MD4-0124T-1 | \$1928 | 1 line x 24 characters. 50mm max character size. Approx viewing distance 100ft. |
| MD4-0212T-1 | \$2271 | 2 line x 12 characters. 120mm max character size. Approx viewing distance 200ft. |
| MD4-0224T | \$2057 | 2 line x 24 characters. 120mm max character size Approx viewing distance 200ft. |
| MD4-0412T-1 | \$2682 | 4 line x 12 characters. 241mm max character size. Approx viewing distance 400ft. |
| MD4-0424T-1 | \$4573 | 4 line x 24 characters. 241mm max character size. Approx viewing distance 400ft. |

The ViewMarq message displays utilize both serial and Ethernet communications and can be connected to a PLC or PC or any device capable of serial ASCII master, Modbus RTU, or Modbus TCP communications. Messages can be controlled by any of the following methods:

- ASCII Input Strings through the RS232 or RS485 port
- Modbus RTU Messages through the RS232 or RS485 port
- · Modbus TCP Messages through the Ethernet port.

Other features inlcude; store and trigger up to 200 messages, scrolling messages, blinking text and messages, display embedded PLC string and numeric variables, tri-colour LED (Red, Green, Amber), built-in Ethernet port; RS-232, and RS-485 serial ports, free, easy-to-use configuration software package

COMMUNICATIONS WIFI & REMOTE ACCESS

Industrial-grade communication products can withstand harsh environments and provide reliable data exchange between control devices that use various transmission media and protocols.

3ONEDATA MANAGED AND UNMANAGED INDUSTRIAL SWITCHES



IES2105-5T-P48 \$95

30NEDATA UNMANAGED SWITCHES -40 TO 75 DEG C, 5 ports 10/100Base-T(X), DC12-48VDC, DINRail, plug and play, single power supply.

IES2105-3T2F-P48 \$369

3ONEDATA UNMANAGED SWITCHES -40 TO 75 DEG C, 3 ports 10/100Base-T(X) +2 Fibre ports 100Base-FX, Single-mode, SC connectors, DC12-48V.



IES618 \$518

30NEDATA MANAGED SWITCHES -40 TO 75 DEG C, Web managed, 8 ports 10/100Base-T(X), DC12-36V.

IES618-2F-M-SC \$715

30NEDATA MANAGED SWITCHES -40 TO 75 DEG C, Web managed, 6 ports 10/100Base-T(X)+2 ports 100Base-FX Multi-mode SC/ST, DC12-36V



IES205G \$330

INDUSTRIAL GIGABIT ETHERNET SWITCHES, UNMANAGED, 5 ports full Gigabit Industrial Ethernet Switch, 10/100/1000Base-T(X), DC12-48V.

SERIAL CONVERTERS



FA-ISOCON \$299

AutomationDirect serial converter, RS-232 (RJ12) to RS-422/485 (5-pin terminal), isolation protection, 5 VDC from PLC or 24 VDC external nominal input, encapsulated, DIN rail or panel mount.

MB-GATEWAY \$528

AutomationDirect Modbus gateway, Ethernet to serial, (1) Ethernet 10/100Base-T (RJ45) and (1) RS-422/485 (6-pin terminal) port(s), (12) simultaneous Ethernet connections, (128) serial device(s), 12-24 VDC required.

UBIQUITI NANOSTATION



NS-5AC \$227

 ${\sf 5GHz\ NanoStation,\ AP\ or\ Client,\ High\ security\ AIRMAX\ Wi-Fi,\ POE\ power\ supply\ included.}$

NSM2 \$286

2.4GHz Nanostation, 2x2 MIMO, AP or Client, Standard Wi-Fi or AIRMAX Wi-Fi. 11dBi gain at 2.4GHz, Outdoor design, Dual Ethernet ports, PoE power supply included.

Wiesemann & Theis GmbH (W&T) in Germany is a trusted manufacturer of microcomputers with over 40 years experience linking industry, office and IT with reliable network and sensor technology as well as interface converters. As a basic measure for many IT security concepts the W&T micro-firewalls isolate critical systems (older devices, IoT systems, etc.) on a secure island in your network. The Microwall Bridge provides security when needed, quickly and simply, while the Microwall VPN and IO provide additional protection.

WIESEMANN & THEIS NETWORK HARDWARE



\$855

The **Microwall Bridge (firewall)** segments sensitive network areas without changing the IP configuration of the components which have been isolated. The preferred area of application is therefore the easiest possible, add-on security expansion of existing infrastructures.

- 2x Ethernet 100/1000BaseT, Gigabit Ethernet, Screw terminals, 24V-48V DC POE.



55211 \$925

The **Microwall VPN** with inegrated WireGuuard VPN server is a firewall that uses appropriate rules to protect your critical machines or systems from undesired or harmful access. Communication from and to the island is restricted to what is essential for operation, thereby significantly reducing the potential attack area.

- 2x Ethernet 100/1000BaseT, Gigabit Ethernet, Screw terminals, 24V-48V DC POE.



55212 \$1095

The **Microwall IO** with innovative I/O control for VPN access includes all the functions of the Microwall VPN. Use the digital in- and outputs to switch remote maintenance and firewall-specific actions in automatoin and process environments. Using a PLC output, a simple button or switch etc. VPN access, certain firewall rules or the status of the network interfaces can be controlled.

 2x Ethernet 100/1000BaseT, 2 switching inputs + 2 switching outputs, digital inputs + 2 digital 24V outputs, Screw terminals, 24V-48V DC POE.

ETHERNET PATCH CABLES

ETHERNET PATCH CABLE, CAT5E

AutomationDirect Cat5e Ethernet straight-through patch cable, STP (overall foil shield), RJ45 male to RJ45 male. For use with 10/100/1000 Mbps networks. These straight-through cables with RJ45 connectors exceed Cat5e cable specs and will create solid, reliable Ethernet networks for any application. Available in various colours and lengths.

| C5E-STPBL-S3 | \$14 | 3ft | Blue |
|---------------|------|------|------|
| C5E-STPBL-S7 | \$25 | 7ft | Blue |
| C5E-STPBL-S10 | \$26 | 10ft | Blue |
| C5E-STPBL-S14 | \$32 | 14ft | Blue |
| C5E-STPBL-S25 | \$46 | 25ft | Blue |
| C5E-STPBL-S50 | \$80 | 50ft | Blue |



| C5E-STPGY-S3 | \$14 | 3ft | Grey |
|---------------|------|------|--------|
| C5E-STPGN-S7 | \$21 | 7ft | Green |
| C5E-STPBK-S10 | \$26 | 10ft | Black |
| C5E-STPYL-S14 | \$31 | 14ft | Yellow |
| C5E-STPRD-S25 | \$44 | 25ft | Red |
| C5E-STPPL-S50 | \$72 | 50ft | Purple |

COMMUNICATIONS **REMOTE ACCESS AND SECURE VPN**

The StrideLinx remote access solution provides affordable, secure access to remote machines or systems using a low-cost VPN router and FREE cloud service. Beyond free remote access, the StrideLinx platform can be upgraded with easy add-on subscriptions to enhance its capabilities including cloud data logging/reporting and cloud notify/alarming.

STRIDE AND STRIDELINX INDUSTRIAL IOT SOLUTIONS



STRIDE whip/straight 2.4 GHz WiFi antenna, IP65, connector mount. For use with SE-SL3011-WF VPN router and CLICK PLUS PLCs.



STRIDE dome 2.4 GHz WiFi antenna, IP67, panel mount, 9.8ft/3m cable length. For use with SF-SI 3011-WF VPN router and CLICK PLUS **PLCs**



STRIDE dome LTE antenna, IP67, panel mount, 9.8ft/3m cable length. For use with SE-SL3011-4G and SE-SL3011-4GG VPN routers.



STRIDE whip/tilt LTE antenna, connector mount. For use with SE-SL3011-4G and SE-SL3011-4GG VPNrouters.



STRIDE whip/straight LTE antenna, magnetic base mount, 9.8ft/3m cable length. For use with SE-SL3011-4G and SE-SL3011-4GG VPN routers



SE-SL3011

\$997

StrideLinx Pro industrial VPN router, wired Internet connectivity, (5) Ethernet Gigabit (RJ45) port(s), Android/iOS with mobile VPN, 12-24 VDC required.



SE-SL3011-WF

StrideLinx Pro industrial VPN router, wired + 802.11 b/g/n WiFi Internet connectivity, WiFi LAN and (5) Ethernet Gigabit (RJ45) port(s), Android/iOS with mobile VPN, 12-24 VDC required.



SE-SL3011-4GG

\$1464

StrideLinx Pro industrial VPN router, wired + 4G Global LTE and US LTE Verizon Internet connectivity, (5) Ethernet Gigabit (RJ45) port(s), Android/iOS with mobile VPN, 12-24 VDC required.

NOTE: SIM card and data plan will need to be purchased.



major brands through a secure VPN:

- **AutomationDirect**
- **Allen-Bradley**
- **Siemans**
- **Schneider Electric**
- Many More!



SE-SW5U-ST-WT

STRIDE industrial unmanaged Ethernet switch, 5 ports, (4) Ethernet 10/100Base-T (RJ45) and (1) multi-mode ST 100FX fiber port(s), -40 to +85 deg C, metal housing, IP40, 35mm DIN rail



SGW-M01611

\$556

STRIDE industrial MQTT gateway, (1) Ethernet 10/100Base-T (RJ45) and (1) RS-485 (2-pin terminal) port(s), wired Internet connectivity, 10-30 VDC required.

Connect, access, and control your industrial data.





Access the right data at the right time with factory-wide connectivity. Enable disparate industrial equipment and systems to speak the same language to provide real-time data to enterprise applications and IoT platforms.

Kepware is a portfolio of industrial connectivity solutions that help businesses connect diverse automation devices and software applications. Utilizing a scalable, unified architecture, Kepware provides the flexibility to combine drivers and consume multiple protocols in a single server while offering a streamlined interface for simple installation, configuration, maintenance, and troubleshooting.



New to Kepware? Learn more



SENSORS & INPUT DEVICES

PROCESS CONTROLS & SENSORS

Discrete and analog sensors are critical for automating any machine or process. A supply a wide range of reliable, low-cost sensors to detect position, speed, proximity, pressure, temperature, level, flow, current, and voltage.

SOLO TEMPERATURE CONTROLLERS

SOLO standard single-loop temperature controllers. 1/32 DIN, 1/16 DIN, 1/8 DIN, or 1/4 DIN panel size.

1/32 DIN, 2-line LED, current, voltage, RTD or thermocouple input, (2) 3A SPST relays output, 100-240 VAC operating voltage, RS-485.

SL4848-CR

1/16 DIN, 2-line LED, current, voltage, RTD or thermocouple input, 4-20mA, 5A SPST relay, (2) 3A SPST relays output, 100-240 VAC operating voltage, RS-485.

1/8 DIN, 2-line LED, current, voltage, RTD, thermocouple or event input, (2) 5A SPDT relays, (2) 3A SPST relays output, 100-240 VAC operating voltage, RS-485.

SIGNAL CONDITIONERS/LIMIT ALARM

Signal Conditioners / Signal Isolators / Limit Alarms for signal integrity.

4-20MA SIGNAL ISOLATOR. Loop-powered signal conditioner and isolator for 4-20mA signal. DIN-rail mountable.

DC VOLTS/MA SIGNAL CONDITIONER. Signal conditioner, isolated, current or voltage input, current or voltage output, 24 VDC operating voltage, 35mm DIN rail or panel mount.

FC-ISO-C

ENCODER SIGNAL CONDITIONER OPE. Signal conditioner, isolated, differential or single ended line driver input, open collector output, 7.8 to 24 VDC operating voltage, 35mm DIN rail or panel mount.

RTD TO 4-20MA CONVERTER. Temperature transmitter, isolated, RTD input, deg F or deg C, 4-20 mA output, 24 VDC operating voltage, 35mm DIN rail or panel mount



LEVEL SENSORS AND CONTROLLERS

We have a huge selection of sensors available to monitor the level of liquids, pellets, and powders in tanks and process systems.

Flowline EchoSonic II ultrasonic liquid level sensor, 18ft (5.5m) sensing range, 4-20 mA, 14-28 VDC operating voltage, 2in male NPT process connection.

VFL75-100L-3H

ProSense vibration fork liquid level switch, any orientation mount, 3.44in insertion length, 316L stainless steel wetted parts, -40 to 212 deg F, 3/4in male NPT process connection, switch PNP, 3-wire, N.O./N.C. complementary, 4-pin M12 quick-disconnect

SRP10CD00506 \$219

EMA Rotating Paddle Switch- Slotted type, L= 50mm, Shaft Material = SS 316 Power Supply 24VDC, 80°C, Plastic housing

DPTA-20-10B \$297

ProSense air differential pressure transmitter, -10.0 to +10.0in of water column range, 4-20 mA analog output, 1/4in brass barbed process connection, 12 to 36 VDC operating voltage, screw terminals, 35mm DIN rail or panel mount.





SENSORS & INPUT DEVICES ENCODERS, LIMIT SWITCHES & TRANSDUCERS

Need help with selecting a sensor? Get in touch with our technical support team on 1800 633 040



AC CURRENT TRANSDUCERS

ACT050-42L-F \$220

AcuAMP AC current transducer, 1-phase, fixed core, 0-10, 0-20, or 0-50A selectable sensing range, 4-20mA output.



DC CURRENT TRANSDUCERS

DCT200-42-24-F \$336

AcuAMP DC current transducer, fixed core, 0-100, 0-150, or 0-200A selectable sensing range, 4-20mA output.



ENCODERS

We have a huge selection of sensors available to monitor the level of liquids, pellets, and powders in tanks and process systems.

TRD-SR360AD \$204

Koyo TRD-SR series incremental (quadrature) rotary encoder, light duty, 5-26 VDC, radial exit, NPN open collector output, 360 ppr, 6mm solid shaft, 38mm diameter body, IP50, 6.5ft/2m cable length, pigtail.

TRD-SHR1000A5D \$218

Koyo TRD-SR series incremental (quadrature) rotary encoder, light duty, 5-26 VDC, radial exit, NPN open collector output, 1000 ppr, 8mm hollow shaft, 38mm diameter body, IP50, 6.5ft/2m cable length, pigtail.

TRD-SHR500A5D \$218

Koyo TRD-SR series incremental (quadrature) rotary encoder, light duty, 5-26 VDC, radial exit, NPN open collector output, 500 ppr, 8mm hollow shaft, 38mm diameter body, IP50, 6.5ft/2m cable length, pigtail.

TRD-GK500-RZD \$754

Koyo TRD-GK series incremental (quadrature) rotary encoder, heavy duty, 10-30 VDC, axial exit, push-pull (totem) output, 500 ppr, 10mm solid shaft, 78mm diameter body, IP65, 6.5ft/2m cable length, pigtail.



LIMIT SWITCHES

Limit switches are suitable for a wide range of applications and harsh environments due to their ease of installation, reliability, and rugged design. Heavy duty and double-insulated models also available.

AEM2G51Z11-3 \$80

AutomationDirect compact limit switch, side rotary adjustable lever with 18mm nylon roller, (1) N.O./(1) N.C. contact(s), snap action, 25mm hole spacing, zinc alloy, pigtail, 9.8ft/3m cable length, bottom exit.

AFM2G21711-3 \$73

AutomationDirect compact limit switch, metal plunger with fixing nuts, (1) N.O./(1) N.C. contact(s), snap action, 25mm hole spacing, zinc alloy, pigtail, 9.8ft/3m cable length, bottom exit.

AEM2G15Z11-3 \$75

AutomationDirect compact limit switch, metal plunger with nylon cross roller, (1) N.O./(1) N.C. contact(s), snap action, 25mm hole spacing, zinc alloy, pigtail, 9.8ft/3m cable length, bottom exit.



SINGLE FOOT SWITCHES

AP\$1211-V0 \$138

AutomationDirect electric foot switch, single, ABS plastic foot guard(s), yellow, momentary, (1) N.O. and (1) N.C. snap action contact, ABS plastic operator, safety anti-trip pedal, gray, ABS plastic base.



DOUBLE FOOT SWITCHES

APD1231-V0 \$318

AutomationDirect electric foot switch, double, ABS plastic foot guard(s), (1) yellow and (1) gray, momentary, (1) N.O. and (1) N.C. snap action contact per switch, ABS plastic operator, safety anti-trip pedal, gray, ABS plastic base.

SENSORS & INPUT DEVICES PROXIMITY SENSORS

We supply a range of general-purpose photoelectric sensors, in tubular or rectangular body styles, suitable for many presence sensing applications.



INDUCTIVE SENSORS

Inductive proximity sensors detect the presence of metallic objects at close range (typically inches). Ferrous metals allow the greatest sensing distances; other metals may reduce detection range.

AK1-AP-1A \$51

Micro Detectors inductive proximity sensor, tubular, 18mm diameter x 50mm body, nickel-plated brass housing, PNP, N.O. output, 5mm sensing distance, flush, 600 Hz switching frequency, IP67, pigtail.

AK1-AP-1H \$55

Micro Detectors inductive proximity sensor, tubular, 18mm diameter x 64mm body, nickel-plated brass housing, PNP, N.O. output, 5mm sensing distance, flush, 600 Hz switching frequency, IP67, 4-pin M12 quick-disconnect.



CAPACITIVE SENSORS

Capacitive sensors detect both metal and non-metal objects, can sense through insulating materials, and are often used to detect fill levels of liquids, pellets, and powders through container walls.

CT1-AP-1A \$231

Micro Detectors capacitive proximity sensor, tubular, 30mm diameter x 71mm body, nickel-plated brass housing, PNP, N.O. output, 15mm sensing distance, flush, 100 Hz switching frequency, IP65, pigtail.

CT1-CP-2A \$231

Micro Detectors capacitive proximity sensor, tubular, 30mm diameter x 71mm body, nickel-plated brass housing, PNP, N.C. output, 20mm sensing distance, non-flush, 100 Hz switching frequency, IP65, piotail



ULTRASONIC PROXIMITY SENSORS

Ultrasonic sensors emit a sound impulse and measure the elapsed time of the echo from an object. They sense most materials and are unaffected by colour, transparency, shininess, or lighting conditions.

UK1A-G7-0E \$282

Micro Detectors ultrasonic proximity sensor, tubular, 18mm diameter x 91.6mm body, polybutylene terephthalate housing, PNP, 0-10 VDC analog output, N.O./N.C. selectable output, 50-400mm sensing distance, 10 Hz switching frequency, IP67, 5-pin M12 quick-disconnect.



GENERAL PHOTOELECTRIC SENSORS

We have a huge selection of sensors available to monitor the level of liquids, pellets, and powders in tanks and process systems.

CX3-AN-1F \$127

AutomationDirect photoelectric sensor, rectangular, diffuse, infrared light emission, 600mm sensing distance, light-on, NPN, potentiometer, 1 kHz switching frequency, plastic housing, 3-pin M8 quick-disconnect. Purchase cable separately

CXP-AN-1F \$133

AutomationDirect photoelectric sensor, rectangular, polarized retroreflective, visible red light emission, 2m sensing distance, dark-on, NPN, potentiometer, 3-wire, 3-pin M8 quick-disconnect. Purchase reflector and cable separately

HEE-00-3A \$100

AutomationDirect photoelectric sensor, tubular, threaded, stainless steel housing, through-beam emitter, infrared light emission, 1m sensing distance, 10-30 VDC operating voltage, 2-wire, pigtail.t.

PRODUCT POINTERS

POWER SUPPLIES, ENCLOSURES

NEW! ACHIEVE PSA SERIES SWITCHING POWER SUPPLY

AchieVe PSA series power supplies are designed for price-sensitive users who require basic yet reliable power output for general industrial applications. Their overcurrent protection is designed to operate in constant current mode, making the PSA series suitable for inductive and capacitive load applications.



SLIM 6MM RELAY

PSA-24-75 \$58

AchieVe PSA series switching power supply, 24 VDC @ 3.125A/75W, 120/240 VAC nominal input, 1-phase, enclosed, plastic housing, 35mm DIN rail mount, screw terminals.

PSA-24-120 \$75

AchieVe PSA series switching power supply, 24 VDC @ 5A/120W, 120/240 VAC nominal input, 1-phase, enclosed, aluminum housing, 35mm DIN rail mount, screw terminals.

PSA-24-240 \$139

AchieVe PSA series switching power supply, 24 VDC @ 10A/240W, 120/240 VAC nominal input, 1-phase, enclosed, aluminum housing, 35mm DIN rail mount, screw terminals.

PSA-24-480 \$265

AchieVe PSA series switching power supply, 24 VDC @ 20A/480W, 120/240 VAC nominal input, 1-phase, enclosed, aluminum housing, 35mm DIN rail mount, screw terminals





ENCAPSULATED DC TO DC CONVERTER

PSRP-24-DC24-150 \$408 RHINO PRO DC to DC converter, 9-36 VDC input, 24 VDC output, 6.3A, 150W, aluminum housing,

encapsulated, chassis mount, screw terminal.

ENCLOSURES



IP66 STEEL WALL-MOUNTING ENCLOSURE

MSB303020G \$197
IP66 STEEL WALL-MOUNTING
ENCLOSURE 300HX300WX200MM
Compact surface wall-mounting
enclosure, single door, 5-mm double-bit lock, coated with hardened
polyester powder coat, textured
80-120 μ. with UV protection.



STAINLESS STEEL ENCLOSURE

B\$40630-6 \$1628
IP66 ELSTEEL ENCLOSURE
400Wx600Hx300Dmm
Wet grinding (180), 120-degree door
opening angle and is equipped with
2 stainless steel double wing locks.
Continuous formed polyurethane
sealing gasket. 1.2mm thickness.

^{*} For shipments requiring the use of road freight (heavy items such as motors over 25 Kg. or enclosures over 20 Kg.), place order before 4 p.m. EST the day before.

WEG Switchgear CWB Contactors









COMPACT IN SIZE. GIANT IN TECHNOLOGY....

Accessories Compatible with the whole CWB line... allows the assembly of compact starters with the MPW18, MPW40 and MPW80 motor protective circuit breakers and RW27-D and RW67-5D thermal relays. Choice of up to six auxiliary contacts. Compatible accessories also include, "Zero" mechanical interlocking sets, BLB, BLRB side mounting auxiliary contact blocks, quick connection Busbars for star delta and reversing starters.

CONTACTORS- CWB SERIES

Up to 80A / 45kW (AC-3) Built-in 1NO + 1NC Low Consumption DC Coils Wide range of accessories Type 1 / Type 2 coordination



CWB9-11-30D25 \$25 Contactor 9 Amps 3 N.O Power poles Coil voltage 240 VAC 1 N.O / 1 N.C Auxilary Contact

CWB32-11-30D25 \$53

Contactor 32 Amps 3 N.O Power poles Coil voltage 240 VAC 1 N.O / 1 N.C Auxilary Contact

CWB40-11-30D25 \$101

Contactor 40 Amps 3 N.O Power poles Coil voltage 240 VAC 1 N.O / 1 N.C Auxilary Contact

CWB50-11-30D25 \$113

Contactor 50 Amps 3 N.O Power poles Coil voltage 240 VAC 1 N.O / 1 N.C Auxilary Contact

CWB65-11-30D25 \$132

Contactor 65 Amps 3 N.O Power poles Coil voltage 240 VAC 1 N.O / 1 N.C Auxilary Contact

CWB80-11-30D25 \$145

Contactor 80 Amps 3 N.O Power poles Coil voltage 240 VAC 1 N.O / 1 N.C Auxilary Contact

See our online store for the full selection of CWB range and our complete line up of WEG Motor Control and Circuit Protection. We also offer a large selection of Pushbuttons, Selector Switches, Pilot Lights and Control Stations. We continue to stock the Mini CWC, CWM lines of contactors and relavs









THERMAL OVERLOADS- CWB SERIES

Bimetallic Amb. Compensated Convertible Manual/Auto Reset Setting Ranges Up To 840 Amps Tripping Class 10A UL, IEC, CE Approvals



RW27-2D3-D063 \$38

Thermal overload relay bi-metallic adjustable FLA range 4.0- 6.3 Amps tripping class 10 phase loss sensitive, 45 mm frame hand/ Auto / Reset button.

RW27-2D3-U040 \$50

Thermal overload relay bi-metallic adjustable FLA range 32-40 Amps tripping class 10 phase loss sensitive, 45 mm frame hand/ Auto / Reset button.

MOTOR CIRCUIT BREAKERS- CWB SERIES

Up to 100A / 55kW Adjustable Thermal Protection Fixed Magnetic Protection 13 x lu Short-Circuit Release Type 1 / Type 2 coordination



MPW18-3-D063 \$42

Thermomagnetic Circuit Breaker 3 N.O Power Poles with Pushbutton ON/OFF (Range 4.0-6.3A)

MPW40-3-U040 \$88

Thermomagnetic Circuit Breaker 3 Normally open Power poles 45 mm frame width rotary actuator 32-40 Amps FLA thermal overload trip rating

ELECTRONIC OVERLOAD RELAYS- CWB SERIES

Solid State overload protection up to 840A / 450kW Wide current settings Adjustable Thermal Class (10, 20 or 30) Self-Supplied Remote Reset

RWB40E-3-A4U025 \$151

Electronic Solid State Relays adjustable FLA range 5-25 A adjustable trip class 10,20,30 manual / automatic reset mode phase loss and phase unbalance protection 1 N.0 / 1 N.C auxilary contacts







PUSHBUTTONS, **SELECTOR SWITCHES & PILOT LIGHTS**

These user-friendly and durable pilot devices are used in many industrial applications and environments. IP66, 4X rated (totally insulated) and includes a complete line of accessories.

CSW-BF2-1000000-3VF \$6

22mm Flush Pushbutton, Green + Flange + 1 N/O Auxiliary Contact.



MDWH CIRCUIT BREAKERS

- Up to 63A
- Trip curve B or CMCB in 1, 2, 3 and 4 poles
- 10kA short circuit breaking capacity (5kA also available)

MDWH-C32 1P Mini Circuit Breaker C Class 32A 10kA



EMERGENCY STOP STATIONS

PBW1Y-G11V03 \$26

Emergency Stop Station with 1 N/O and 1N/C contacts, with a legend plate built into an IP66 enclosure.



MULTI-FUNCTIONAL TIMER RELAYS AND ELECTRONIC RELAYS

ERWT-MF1-02MT1E05 2 N. O / 2 N.C contacts. 8 selectable functions inc Star-Delta. 24 - 240V AC/DC

RPW-FSFD66 Protection Relay Phase Loss/Seq



CONTROL STATIONS

CSW-PBW-1Y 1 Hole Yellow or Grey Colour

CSW-PBW-6 6 Holes Gray Colour

CSW-PBW-4 \$23 4 Holes Gray Colour



ENCLOSED DIRECT ON-LINE STARTERS

IP65 surface mount enclosed contactor assembled with thermal overload relay & pre wired control circuit. Knock-out suit M20 cable gland.

Available in various types of operation (On+Off; Remote; Reset; HAND/OFF/ AUTO switch) Prices start from \$82 (DLW-B9D25P66-R55)

ADDITIONAL CONTACT BLOCKS- CWB SERIES

BFB front mounting (2 or 4 contacts) BLB/ BLRB side mounting (2 contacts, only 9mm wide)

Allows combinations that result in up to 6 auxiliary contacts per contactor. For use with CWB9 through to CWB80. Maximum $4\,$ auxiliary contacts per contactor.

BFB-11 \$10 Aux. Contact (1NO + 1 NC) BFB-20 \$10 Aux. Contact (2NO + 0 NC) Aux. Contact (0NO + 2 NC) BFB-02 \$10 Aux. Contact (2NO + 2NC) \$19 BFB-22 BFB-40 \$19 Aux. Contact (4NO + 0NC)

BLRB-02 \$13



Aux. Contact (0NO + 2 NC)





ACCESSORIES & SPARE PARTS- CWB SERIES

Surge suppressor blocks are easily mounted on the CWB contactors without requiring any kind of tools and without increasing volume.

The WEG mechanical interlock system enables the mechanical interlock between the contactors of the CWB line with "zero" additional side space, and it is possible to mount reversing starters of up to 125 A.

DIZB C26 \$13 Surge Suppressor Block 12-250 VDC VRB E49 **\$13** Surge Suppressor Block 24 VAC

VRB E50 \$13 Surge Suppressor Block 240 VAC **VRB D73** \$13 Surge Suppressor Block 415 VAC

IM1 Mechnical interlock block CWB 9 - 38 IM2 \$6 Mechnical interlock block CWB 40...125









AC VF DRIVES DURAPULSE VARIABLE FREQUENCY DRIVES







DURAPULSE GS10 MICRO AC DRIVES

Our most affordable and compact inverter drive with sensorless vector support. Enclosed.

GS11N-20P2 \$291

230 VAC, 1/4hp with 1-phase input, SVC or V/Hz mode, A1 frame, RS-485, Modbus, 100kA SCCR.

GS11N-21P0 \$315

230 VAC, 1hp with 1-phase input, SVC or V/Hz mode, B2 frame, RS-485, Modbus, 100kA SCCR.

GS13N-40P5 \$365

460 VAC, 1/2hp with 3-phase input, SVC or V/Hz mode, A4 frame, RS-485, Modbus, 100kA SCCR.

GS13N-45P0 \$529

460 VAC, 5hp with 3-phase input, SVC or V/Hz mode, C1 frame, RS-485, Modbus, 100kA SCCR.





DURAPULSE GS20 GENERAL AND GS20X WASHDOWN AC DRIVES

Take the best features of our popular GS2 series drives, add Sensorless Vector and Field Oriented Control, expand built-in I/O, and include an integrated PLC with optional Ethernet communications. GS20X models come in a NEMA 4X enclosure

GS21-20P2 \$350

230 VAC, 1/4hp with 1-phase input, SVC, V/Hz, FOC or torque mode, A1 frame, RS-485, Modbus, 100kA SCCR. Optional EtherNet/IP and Modbus TCP card available.

GS21-21P0 \$392

230 VAC, 1hp with 1-phase input, SVC, V/Hz, FOC or torque mode, B2 frame, RS-485, Modbus, 100kA SCCR. Optional EtherNet/IP and Modbus TCP card available.

GS21X-20P5 \$619

NEMA 4X, 230 VAC, 1/2hp with 1-phase input, SVC, V/Hz, FOC or torque mode, A frame, RS-485, Modbus, 100kA SCCR. Optional EtherNet/IP and Modbus TCP card available.

GS23X-40P5 \$753

NEMA 4X, 460 VAC, 1/2hp with 3-phase input, SVC, V/Hz, FOC or torque mode, A frame, RS-485, Modbus, 100kA SCCR. Optional EtherNet/IP and Modbus TCP card available.

DURAPULSE GS4 SERIES HIGH-PERFORMANCE AC DRIVES



DURApulse GS4 AC Sensorless Vector Drives handle applications up to 300hp. Economical and compact, these high performance drives offer advanced features such as Safe Torque Off (STO), a built-in PLC (up to 10k steps) and built-in I/O capabilities.

GS4-21P0 \$1206

NEMA 1, 230 VAC, 1hp with 3-phase input, 1/2hp with 1-phase input, SVC or V/Hz mode, A frame, RS-485, Modbus and BACnet, 100kA SCCR. Optional EtherNet/IP and Modbus TCP cards available.

GS4-23P0 \$1462

NEMA 1, 230 VAC, 3hp with 3-phase input, 1hp with 1-phase input, SVC or V/Hz mode, A frame, RS-485, Modbus and BACnet, 100kA SCCR. Optional EtherNet/IP and Modbus TCP cards available.

GS4-42P0 \$1312

NEMA 1, 460 VAC, 2hp with 3-phase input, SVC or V/Hz mode, A frame, RS-485, Modbus and BACnet, 100kA SCCR. Optional EtherNet/IP and Modbus TCP cards available.

GS4-4010 \$2098

NEMA 1, 460 VAC, 10hp with 3-phase input, SVC or V/Hz mode, B frame, RS-485, Modbus and BAC-net, 100kA SCCR. Optional EtherNet/IP and Modbus TCP cards available.

SAFETY PRODUCTS

SAFETY COMPONENTS FOR EQUIPMENT PROTECTION



SAFETY GATE RELAYS

LG5925-48-61-24 \$339

Dold safety relay, emergency stop and safety gates, 2-channel, 24 VAC/VDC, (3) N.O. safety output(s), (1) N.C. monitoring output(s), fixed screw terminals.



TONGUE (KEY) INTERLOCK AND CABLEPULL SAFETY SWITCHES

KM-203002

\$176

IDEM safety switch, tongue (key) interlock, 90-degree adjustable head, (2) N.C. safety output(s), (1) N.O. monitoring output(s), 40 x 118 x 41mm, die-cast aluminum body, die-cast aluminum bead.



NON-CONTACT CODED MAGNETIC SAFETY SWITCHES

CMC-F-135006 \$525

IDEM safety switch set, non-contact coded magnetic, rear mount, (2) N.C. safety output(s), (1) N.O. monitoring output(s), 316 stainless steel housing, 83 x 20mm, pigtail, 16.4ft/5m cable length.



TONGUE INTERLOCK SAFETY SWITCHES

SP2K120X11 \$47

Comepi safety switch, tongue (3-prong key) interlock, 360-degree adjustable head, (1) N.C. safety output(s), (1) N.O. monitoring output(s), 30 x 98 x 30mm, plastic body, plastic head.

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Warning: Safety products sold by AutomationDirect are Safety components only. The purchaser/installer is solely responsible for the application of these components and ensuring all necessary steps have been taken to assure each application and use meets all performance and application requirements and/or local, national and/or international safety codes as required by the application. AutomationDirect cannot certify that our products, used solely or in conjunction with other AutomationDirect or other vendors' products, will assure safety for any application. Any person using or applying any products sold by AutomationDirect is responsible for learning the safety requirements for their individual application and applying them, and therefore assurmes all risks, and accepts full and complete responsibility, for the selection and suitability of the product for their respective application.

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VISUAL & AUDIBLE DEVICES TOWER LIGHTS AND SOUND MODULES



70mm TOWER & LIGHTS

0570TBS01KH \$1:

Black Standard Cone Base with tube length 10mm.

0570RDWFH \$26

70mm Red Light Module (12-24VDC), continuous or flashing.



30mm TOWER & LIGHTS

0530TBS01W \$15

White S-Type with Cap - Standard cone base with tube length 10mm

0530RDWL \$14

30mm Red Light Module (12/24VDC) continuous.



SOUND ELEMENTS 70mm

0570ZDWFKH

\$20

Audible beeper element, up to 85dB at 1m, continuous or intermittent sounds.

0570PDWAK \$49

Audible music or messaging element 85dB at 1m. 12-24VDC.

WIRING SOLUTIONS TERMINAL BLOCKS, CABLING & ZIPLINK SOLUTIONS

DIN RAIL

Durable Steel DIN Rail and Lightweight Aluminum DIN rail Various sizes including 35mm 1m length



DN-R35S1-2 \$48

DINnector DIN rail, slotted, 35mm, 7.5mm height, 1m length, plated steel. Package of 2.

DN-R35S1 \$172

DINnector DIN rail, slotted, 35mm, 7.5mm height, 1m length, plated steel. Package of 10.

DN-R35SAL1-2 \$60

DINnector DIN rail, slotted, 35mm, 10mm height, 1m length, aluminum. Package of 2.

DN-R35SAL1 \$180

DINnector DIN rail, slotted, 35mm, 10mm height, 1m length, aluminum. Package of 10.

DN-CLIP-FM4-5 \$20

DIN rail clip, zinc plated steel, used to mount items to 35mm DIN rail, 4mm mounting hole size. Package of 5.

TRIPLE-LEVEL FEEDTHROUGH TERMINAL BLOCKS

DINnectors DN series screw-type Currents up to 10A Wire sizes from 26 AWG to 14 AWG 10kA SCCR rating 35mm DIN rail mount

DN-TI 14-A \$153

DINnector screw triple-level feedthrough terminal block, gray, Package of 25.

DN-12JL14B-A \$54

DINnector terminal block jumper, push-in type, 12-pole, blue, 20A, 300V rated (UL). Package of 10.

DN-EC14 \$39

DINnector terminal block end cover, gray. Package of 25.

DN-LATB-A \$74

DINnector marking tag, 5 x 6mm, blank. Package of 500.

ZIPLink

Wiring can be a very time-consuming task. The ZIPLink wiring solution eliminates the need for hand wiring every I/O point in the control panel. Simply plug one end of a ZIPLink pre-wired cable into a supporting PLC or I/O module and the other end into a ZIPLink connector module and all the connections are made. Connect field wiring to the connector module and the I/O circuits are complete.

PRODUCTIVITY 1000 ZIPLINKS

ZL-RTB20 \$58

ZIPLink feedthrough module, 20-pole, DIN rail mount.

Feedthrough modules provide low-cost and compact field wiring screw termination solutions allowing quick connection with ZIPLink cables to PLC I/O modules.

BRX ZIPLINKS

ZL-BX-CBL40-S \$66

ZIPLink PLC I/O cable, 40-pin connector to 40-pin connector, shielded, 1.6ft/0.5m cable length. For use with BRX series high-speed modules.



BRX CPU with expansion modules and ZIPLink ZL-RTB20 feedthrough module

CLICK ZIPLINKS

ZL-RFU20 \$268

ZIPLink fuse module, 16-point, user-supplied external fuse, 0-75 VDC/0-250 VAC, 2A/circuit, DIN rail mount.

Fuse modules provide fuse protection for PLC output devices. Use with Do- more, CLICK, DL05/06/205/305/405 PLCs.

HANDTOOLS FROM GLOBALLY TRUSTED BRANDS

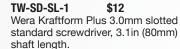
NEW!

We've added over a hundred tools from trusted brands for your industrial and commercial applications. Our new range includes a wide selection of high-quality screwdriving and tightening tools as well as wrenches, ratchets and socket sets.



STANDARD SCREWDRIVERS AND SETS

TW-SD-SET-1 \$90 Wera Kraftform Plus 300 series screwdriver set, 6 pieces.



05008715055 \$25 Wera Kraftform Plus #1 Phillips standard screwdriver, 11.8in (300mm) shaft length.



INSULATED SCREWDRIVERS AND SETS

TW-SD-SET-2 \$99
Wera Kraftform Plus 100 VDE series insulated screwdriver set, 6 pieces, 1000V insulation rating.

TW-SD-VSL-1 \$12 Wera Kraftform Plus 2.5mm slotted insulated screwdriver, 1000V insulation rating, 3.1in (80mm) shaft length.

05006440055 \$27 Wera Kraftform Plus 3.5mm slotted insulated screwdriver, 1000V insulation rating, 3.9in (100mm) shaft length, reduced shank.



COMBINATION WRENCHES AND WRENCH SETS

05020013055 \$687

05073268055

Wera Joker ratcheting combination wrench set, metric, 11 pieces, includes 8, 10, 11, 12, 13, 14, 15, 16, 17, 18 and 19mm wrenches. Durable cloth pouch included.

\$48



WRENCHES, RATCHETS AND SOCKET SETS

05004018055 \$248

Wera socket set with Zyklop Metal switch lever ratchet, 1/4in drive, metric, 28 pieces.



05004004055 \$102

Wera Zyklop Metal ratchet, switch lever, 1/4in drive, 5 degree return angle, allmetal construction.



Wera Joker combination wrench, ratcheting, 8mm, 9.3in (235mm) overall length, special nut holding feature and fine tooth ratchet.

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05022639055 \$121 Wera multicolor L-key hexdrivers



151NAS \$54 Megapro multi-bit screwdriver



TW-TD-11-29 \$197 Wera adj. torque screwdriver



TW-DB-SET-SD1 \$98 Wera driver bit 8 piece set

SYSTEM INTEGRATORS

Do you need local service and support for your Direct Automation equipment or projects?



As primarily a supply company, our SI Direct program strives to extend our customer service and support into the field of industrial automation. We have connected with experienced system integration services who are fully versed in our core product range. Members of our system integrator program have demonstrated specific product and application expertise with particular emphasis on our Programmable Controller, HMI and Motion Products.

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