



WESCO Distribution Runner



Second Quarter, 2003

Repairs Made Easy!

It's one of those days that starts out bad - an electronic equipment failure. Fortunately the heroes in maintenance get you up and running with a critical spare or a rush purchase on new equipment. You are back in production but what about the failed unit? Do you need a backup? Is this a good option for repair? Do you buy a new one or take a risk on no backup?



Advanced Servo Technologies (AST) can help. They can assess your repair, on almost any electronic device, and provide you with a no-obligation cost of repair. If you proceed with the repair you can be assured of its quality.

When **AST** receives the damaged unit, it is compared and tested to OEM specifications. Units are broken down and every individual component is measured and evaluated. Once the problem has been determined, then the item for repair is priced. This method

of pricing insures that you only pays for what is damaged.

Every component is repaired by certified engineers or technicians, using only the highest quality parts and equipment in every repair. All meters, scopes, power supplies, and other sensitive testing equipment are calibrated on regular intervals to insure precise test results.

AST has developed custom test setups and equipment to perform complete final tests on a variety of electronic and hydraulic equipment. After every repair is completed the item is put through a rigorous 3-part Q/C check to certify a quality repair. This allows a more complete repair and reduces costly down time associated with faulty repairs.

Advanced Servo is a member of "The Servo Technologies Group", which consists of 4 locations across North America. We combine our purchasing power, knowledge, parts and efforts to insure that all items sent in for repair are handled with the highest quality.

So, the next time you are wondering what the future of a damaged component is, call WESCO and we can get the help you need from **Advanced Servo Technologies.**



Your One Source Solution for Westinghouse Renewal Parts

WESCO's heritage extends back to 1922 when we were formed with the purpose of selling and distributing Westinghouse products. WESCO, in all likelihood, was the original source of your current Westinghouse equipment.

While Westinghouse has sold off many of it's electrical manufacturing businesses, the expertise and specific equipment knowledge is still part of our business at WESCO today.

WESCO has recently formed a Renewal Parts Branch to serve as a knowledge and sourcing centre for Westinghouse renewal parts. We can help you keep your equipment up and running safely and efficiently. Call your local WESCO branch with your Westinghouse sourcing problems and we will rise to the challenge.

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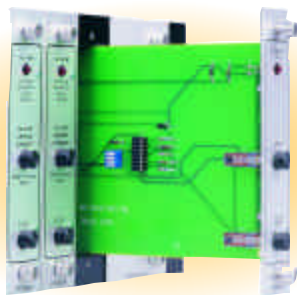
Visit our web site at www.wesco.ca





Find Faults **FASTER** with Pulsing Technology!

Ground Faults are not only the leading cause of motor failure but they also cause nuisance tripping of protection devices and are a significant hazard to workplace safety. In long cable runs, they can be quite costly to detect and as a result they frequently become one of a plants most nagging electrical problems.



Upgrade existing protective relays with add-on pulsing cards.

Many plants have installed protective relays from Federal Pioneer over the last 20 years to protect against ground faults. Common types include GADD, DSA and DSP units.

IPC Resistors Inc, now owns and manufactures these relays and has developed a series of add on pulsing cards to upgrade the capabilities to assist with fault location. The DS-PM upgrade enables users to not only detect and protect against the fault, but also to locate the fault through pulsing technology faster than ever before.

To convert your existing DSA or DSP into a pulsing ground fault protection system, simply install the plug-in Card Module in a blank space on the 19" rack. If you have



DSP MKII can be used to provide trip closure on an occurrence of a single fault.

the GADD Ground Alarm Relay replace it with a GADP unit with integral pulsing capability.

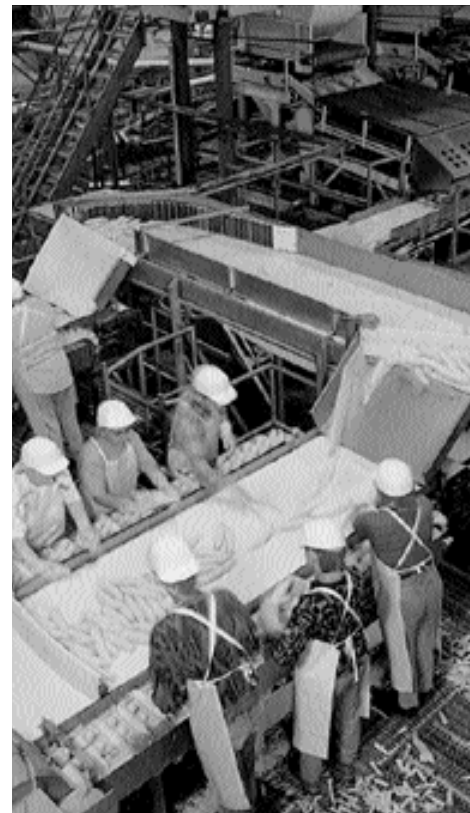
For all units, existing terminals are used to connect control wiring to IPC's unique Ohmni resistors, which receive the control signal from the DS-PM card and activate and control the pulsing. The pulsing system then varies the low level current in the ground fault path. This does not adversely affect any electrical equipment in the plant and allows you to trace the faulted circuit all the way to the point of the fault through the use of the hand held tracing sensor.

By facilitating fault location and enabling the fault to be cleared you will benefit from reduced downtime, longer equipment life, lower maintenance costs and the elimination of potential safety hazards.

Call your local WESCO branch for information on how this upgrade option can save you time and money.

IPC
THE POWER TO PROTECT

Safety-Coated Lamps



We all want the best for our workplace, to protect our employees, our products, our families and our homes. As with most things, there are different levels of quality and costs associated with safety!

In 1998, Standard introduced the most comprehensive line of Safety-Coated lighting products available in Canada. SAFETY MAX offers safety-coated versions of virtually every type of Linear Fluorescent, Compact Fluorescent, PAR Halogen, Universal Burn and specialty HID lamps.

All SAFETY MAX lamps are made using the latest technology in plastics, polymers and silicones. These materials reduce the risk of lamp breakage due to both physical and thermal shock.



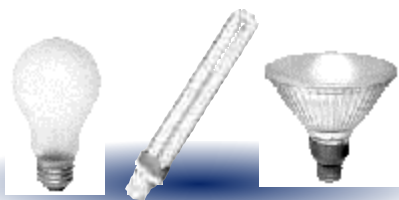
Steps from Standard

Should a Fluorescent, Incandescent or HID lamp break, all of the glass shards, metal and chemical components including all other potentially dangerous materials will be contained within the "plastic" coating. This means that you can be confident your facility meets the levels of safety you require.

In the food industry? SAFETY MAX lamps are recognized by the Canadian Food Inspection Agency.

The alternative of sleeves and end caps may look like a good idea, but caps can easily fall off exposing your process to the dangers and contaminant's found in the lamp. If you deal with granular products like salt, sugar or flour, broken glass is easily camouflaged thereby creating a risk to public safety.

Safety lighting is not restricted to the food industry! Many applications exist within high tech, heavy industrial, mining, pharmaceuticals, health-care, schools, supermarkets, libraries, ...virtually anywhere where SAFETY is paramount. SAFETY MAX can help you achieve this peace of mind and protect everyone to the MAX!



Safety Max is the most complete line of safety coated lamps available

STANDARD™
ILLUMINATING IDEAS • L'ÉTINCELLE DE L'INSPIRATION

Fibre Optic Plant Networks

- Affordable Alternate to Costly Media Converters -



3M™ VOL-1081 Mini-Switch

When designing LANs for industrial applications specific issues must be addressed. Longer run distances combined with an abundance of electromagnetic interference (EMI) and radio frequency interference (RFI) pose considerable difficulties for typical fibre backbone/copper to the workstation network designs.

By installing fibre to the device, both the distance and the noise issue can be overcome. However, this approach has historically, been too costly to implement...until now.

With Volition™ Network Solutions, 3M has engineered the added cost and complexity out of working with fibre.

The VOL-1081 Mini-Switch from 3M is a key component which enables cost effective plant floor designs. With eight 10/100 RJ-45 copper ports and one 100 Mbps VF-45TM fibre uplink port, the VOL-1081 allows up to eight devices to connect to a network to

2000 metres away, utilizing only two fibre strands.

The alternative of using media converters or 'transceivers' to convert a fibre signal into a copper signal, requires its own pair of fibre strands for each device. As more

devices are required at each location more media converters and more fibre strands are required to connect the devices. The VOL-1081 is an affordable alternative to adding media converters, providing you with more copper ports over fewer fibre strands.

By taking advantage of fibre's many benefits, a 3M Volition solution can reduce the need for telecommunications rooms throughout the facility, centralize active components to minimize time spent troubleshooting, and offer a cabling solution that is not impacted by harmful EMI and RFI no matter how strong. As well, 3M's Tuff Flex™ fibre patch cords are specifically designed to handle the abuse of industrial usage and come in hybrid forms: VF-45 to ST, SC, MT-RJ or LC. This allows the VOL-1081 and other Volition electronics to be easily uplinked to any connectors already installed on the premises.





More Applications for 24DC Control

The use of 120 VAC control is currently more common in industrial applications in North America. It has a number of benefits including familiarity, the ability to use common receptacle power for troubleshooting and testing and fewer field wiring issues associated with noise and voltage drop.

The use of 24 VDC control, however is increasing. For some time PLC's, DCS's, CPU's, HMI's and I/O hardware have been 24 VDC based. Most recently, AFD's, solid state reduced voltage starters and servo drives have changed to 24 VDC control. We are now seeing a new generation of contactors, starters, control relays and sensors that will be dedicated to this control philosophy.

Migration to 24 VDC control is being driven by the need for safer operating voltages, simplified compliance with safety standards and a more reliable interface with PLC's and DCS.

24 VDC Control is inherently safe and is aligned with the new codes and standards established for enhanced safety. It allows for a reduction in the times where lockout/tagout must be performed and control panels can often be serviced while still energized. The devices are becoming extremely reliable, are often less expensive and can have better response times. 24 VDC power supplies provide signal isolation and protection

against shorted outputs and power quality issues. 24 VDC allows direct interfacing with process control equipment, reducing the need for interposing relays.



Eaton offers the Cutler-Hammer Intelligent Technologies line of 24 VDC based motor control devices.

Renewed emphasis on personal safety and improved performance is driving 24 VDC control for new applications. As new product designs become available, and costs continue to decrease, 24 VDC will inevitably become the control system voltage of choice for industrial applications.

EAT•N | Cutler-Hammer

Contact a branch near you!

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