

Special points of interest:

- ScanMeg ships the 7,000th Area Photocell
- New Type CV12 Carriage Scanner shipped to Automation & Electronics in NZ
- Robust Type MD Scanner designed for debarkers

ScanMeg Ships Area Photocell Number 7,000

The Area Photocell was the first sensor that was produced in ScanMeg's product line. It has proven to be the *de facto* standard where log sequencing is required.

Typically these photocells are installed on canter-lines and sawlines in sawmills, and log bucking and log handling systems in all wood-processing plants.

Special features set this sensor above all others and as a result increases in produc-

tion of 3 to 5% have been recorded due to reduction of downtime from faulty photocell outputs usually due to contamination on the lenses.



Type P Area Photocell replaces many Single, Stacked photocells but with only one I/O

Today, most of the sawmill equipment manufacturers install these photocells as standard when stacked photocells are called for. They have much simplified installation, set-up, operation and troubleshooting production lines.

The overall reduction in installation and operational costs have made them the low-cost alternative and installed as factory standard on production lines from USNR, Comact, AutoLog, HewSaw and others.

Today, the Secrets are Revealed on the Magic Properties of the ScanMeg Area Photocell

Special design features that are built into the Area Photocell have made it function like no other on the market. They have eliminated so many of the typical problems associated with stacked photocells installed in some of the toughest sawmill environments.

You know the problems:

- Crosstalk between photocells in a stack
- Blocked photocells from

debris, oil, dirt, dust etc....

- Miss-alignment due to vibration or impact
- False outputs due to momentary chip or sawdust showers
- Slow reaction time
- Or, just not tough enough to withstand the conditions

These problems led Ben Carpenter to find the perfect solution.

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Secrets Revealed (continued)

"These photocells are a no-brainer"

**Kevin Moore,
Tolko Forest
Industries**

Realizing all the problems associated with conventional photocells, Ben decided to design a sensor that could withstand the adverse conditions of a sawmill and provide reliable responses for tracking logs.

The units come in sizes of 4, 8, 12, & 16-inches high with cells spaced every 1-inch. In spite of the many cells, each sensor has only one digital output. They have a range up to 50-feet depending on the model.

Ben built special 'smarts' into the photocell that can be utilized or by-passed, depending on the requirements. Using a series of dipswitches, the programmer can:

- Set Debounce time
- Set Latch time



Canterhead photocell—chips don't bother it

- Enable/disable cells
- Set 1/2" Cross scan, and
- ***Set minimum acceptable object size for an output***

One of the biggest features that have made these so valuable is the last feature of setting the minimum object size. This means that the photocell ignores splinters of wood, chunks of bark, or dirt covering one, two or even three cells that would

normally trip the photocell and screw up the log sequencing. This is a serious problem when feeding into canters and bandsaws, if the set is wrong.

Preventing a bandsaw wreck alone could easily pay for their installation in one shot!

This is the biggest reason why so many of these units are purchased as they work so well in the tough conditions found in sawmills.

These are even mounted right in the C-frames of quad bandsaws to reduce gap time. Tough job with chips and sawdust flying everywhere!

For a full report please see our report:

"Secrets Revealed"

on
www.scanmegwest.com

Are these Photocells Tough or What?

"After being hit by a log that bent the support, the photocell was still working so we will repair it on the weekend"

Alan Schlote, Sierra Pacific Industries

I was walking down the Canter Twin line with Alan Schlote, the Electrical Superintendent, at Sierra Pacific's operations in Mount Vernon, WA when we passed the Area Photocells on the V-flite conveyor feeding into the canter twin. The one-inch round stock supporting the photocell was bent at a weird angle.

Alan told me that a small log got stuck on the side of the V-chain and the next log hit the end, spun it around 90°, and drove it sideways along the top of the conveyor trough like a D-8 Cat. It hit the photocells and bounced right over them, but not before bending the 1-inch steel round stock.

Alan told me that they were still working fine so they will wait until the weekend to fix them....

I guess one can conclude that—they are tough!

If you haven't installed these on your log breakdown lines, it is time you ordered some today so you too can experience the immediate uptick in production due to reduced downtime!

Call today to discuss.....

604-582-2157



Even after a log impacted the photocell — it still functions.

New Full-profile Carriage Scanner being installed by Automation & Electronics in New Zealand — Model CV12

"We chose the ScanMeg CV scanner for our new LogView™ Carriage Scanning System as it gave us the precision as well as scan frequency that we needed so we can use it as a SnapScan or move the log slightly to give us a 100% scan on the log."

Brian Smith, A&E

The latest scanner in the ScanMeg arsenal is the new Full-profile, Carriage Scanner. This scanner is being utilized as the sensor portion of the new LogView™ scanner from Automation and Electronics based in Mt. Maunganui, New Zealand. It will be installed on a conventional carriage in a New Zealand sawmill.

In addition to scanning logs on a carriage, the CV scanner can also be used to measure logs held by an end-dogger carriage. It can be configured as a SnapScan as well as a full-profile scanner when the log is moved forward 5 inches to be able to scan the whole log.

The new CV12 Carriage Scanner is comprised of four, 5-foot segments that are installed end to end. Each segment has a full-profile laser mounted on 5-inch centers (125mm). In each segment

there are two CCD array cameras that will scan each laser line and determine the profile of the log.

Each scanner can provide full-profile data for a portion of the log. More scanners can be added for complete coverage of the rest of the log's surface.

Depending on the requirements, the CV scanner's lasers can be configured with a 5 or 10-inch spacing.



Nigel Patmore, Senior Software Engineer for A&E, demonstrates the LogView™ Scanning System that they will install on a carriage in New Zealand.



The new Type CV12 Full-profile Carriage Scanner can be used for conventional carriages, end-doggers as well as log sorting on belt conveyors. It can also be used to confirm log rotation after flying-log turners.

The Full-profile Scanner whose Time has come...

The new Type CV12 Full-profile log Scanner is a very versatile device. It can be used for:

- Conventional carriages
- End-doggers
- Edger & Cant scanner
- Sharp-chain scanners
- Rotation verification scanner
- Log sorting scanner

Whether it is used as a SnapScan or as a multi-headed longitudinal scanner the CV can be used in front of many different kinds of machine centers.

In many cases it could save valuable real estate during the scanning operation. It also could be used to scan the log or board in place, so that costly modifications to the mill do not have to be made.



Computer Scanner Interface

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Making specialized sensors for the Forest Industry
— Got a special situation, give us a call...

Type MD Scanner Used for Debarker Control — For when the Job Gets Tough!



Type MD Log Scanner mounted directly on Brunette debarker at Goshen Forest Products, in Goshen OR,

The Type MD scanner was specifically designed for control of feed speed and tool pressure for debarkers. This is always a tough job as there is such a high degree of vibration and shock loading that most sensors don't last long before they shake apart.

Outputs can be serial, analog (4-20 mA) or PNP to act as a photocell depending on the module that is ordered.

You certainly don't need the resolution of our Type D scanner at 0.0625" or our new HD scanner at 0.040"

just to determine feed speed and tool pressure, so the MD scanner is a very cost-effective alternative.

But don't let the low cost fool you.. The MD scanner is built on a similar architecture to the rugged Area Photocell with LEDs spaced on one-inch centers so they are tough.

They are a very versatile scanner as they also are used for rough log sorting. Most mills use them for sorting logs to the big side or the

small side so the 1/2-inch precision is fine for this job.



Type MD Log Scanner used in front of a Nicholson debarker at Canfor's operations in Vanderhoof, BC.

Want more information CALL:

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If you are spending a lot of money for repairs on your scanner — check out the Type MD scanner from ScanMeg.