



4B Components Ltd.
625 Erie Avenue
Morton, IL 61550
USA

A Worldwide Manufacturer of:
High Quality, Technologically Advanced
Material Handling & Electronic Components

For Sales or 24 Hour Technical Support: 309-698-5611

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BETTER BY DESIGN

NEW MATERIAL HANDLING CATALOG

We have a new 64 page product / engineering catalog for 2012.

- Elevator Buckets
- Elevator Bolts
- Belting & Belt Splices
- Pulley Lagging
- Bucket / Pulley Speeds
- Belt Punching Charts
- Material Density Tables

This new comprehensive catalog features updated images, product information, links to product videos and engineering data.

Call today for your free copy!



4B Components Ltd. Newsletter - Morton, IL 309-698-5611

Volume 12 • Issue 23

SpeedMaster™ - Speed Switch Calibration & Testing Device

4B has developed a new device to make the testing of speed switches quick and easy. The SpeedMaster™ with Pulse Pilot is the only device that accurately tests the calibration of a speed switch, and allows testing of the 10% alarm and 20% shutdown features of the sensor while installed on the machine shaft.

The SpeedMaster™ operates in two modes. Input mode is used to measure the pulse rate at normal speed. Output mode will allow the user to simulate belt under speed for testing purposes.

The Pulse Pilot fits between the gap between the sensor and the target (see below). The Pulse Pilot will have no effect on the operation of the speed switch until it is connected to the SpeedMaster™ and set to "output" mode.

To see a demonstration of this new testing device, stop by 4B's booths at the 2012 GEAPS Exchange. Or, see our speed switch presentation during the show on Monday, March 5th at 1:15 in Expo Pod #4.



Pulse Pilot Shown in Operating Position between M800 Elite Speed Switch and Whirligig® Target



March 4 - 6
4B Booths 245 & 249



SpeedMaster™ & Pulse Pilot (Patent Pending)

SpeedMaster Video - Scan the QR Code or Visit: www.go4b.com/speedmaster



www.go4b.com

EMPLOYEE PROFILE

Jay Yoder



Jay Yoder Technical Sales - Electronics

I joined 4B in October of 2011 as a Technical Sales Representative in the Electronics department.

My background includes 20 years of experience in the distribution and support of engineered products such as industrial pump and valve automation packages.

I live in Morton, IL with my wife Amy and our two sons. I enjoy target shooting with my sons and an occasional house project in my spare time.

I am very excited to join the 4B electronics division and look forward to applying my knowledge to help service our customers needs.

2012 TRADE SHOWS

Stop By Our Booth!

AFIA / IPE International Poultry Expo
- Booth 505: January 23 - 27, Atlanta, GA

GEAPS Exchange
- Booth 245, 249: March 4 - 6, Minneapolis, MN

PTXi International Powder & Bulk Solids
- Booth 2549: May 8 - 10, Rosemont, IL

FIGAP
- Booth 314: October 17 - 19, Guadalajara, Mexico



ENGINEERING INPUT

Free Bucket Elevator Design Service



Roger Bruère Technical Sales Manager - Material Handling Products

Is your elevator leg experiencing any of the following:

- Back Legging
- Down Legging
- Excessive Belt Stretch
- Belt Slippage
- Capacity Loss
- Premature Bucket Wear
- Turbulence
- Buckets Pulling Through Belt

We can help! At 4B, we have designed thousands of bucket elevators for many different industries, including animal feed, grain storage, flour milling, malting & brewing through to cement, coal and other heavy industries.

Take advantage of 4B's **FREE**, worldwide technical support service from a team of engineers specializing in the design of bucket elevators.

Using your key technical data, 4B can either design your new bucket elevator or we can help you to increase the capacity of your existing bucket elevator. Our engineers can give you a detailed technical recommendation for the ideal bucket elevator with the ideal capacity and discharge characteristics.

To get a free recommendation from our engineers call 309-698-5615, or visit our website - www.go4b.com/engineering and fill out our online questionnaire.

Customer Testimonial - R&S Grain Systems, Inc.



Ray and Sharon Dietrich, founders of R & S Grain Systems, Inc., had been manufacturing and installing grain elevators for 14 years at their facility in southern Minnesota, when Dietrich ran across an article in a journal that caught his attention.

Searching for ways to increase leg capacity, he wanted to learn more about the bottomless buckets featured in the story, and contacted the 4B Components facility in East Peoria, Illinois.

That call to 4B Vice President Rick Fifer marked the beginning of a 25 year working relationship that has measurably increased the capacity of more than 600 projects in Minnesota, Wisconsin, Iowa and South Dakota.

"4B had tabulated lots of performance data based on actual usage," R & S Grain Systems Vice President Wayne Dietrich says. "We called and talked to Rick and told him what the leg would be handling. He reviewed his data and faxed us recommendations right away. We liked what we saw and sent him our drawings. The resulting leg had increased capacity, greater endurance and less downtime. Needless to say, our customer was happy, and so were we."

"With the engineering and technical support of 4B, we went on to design our D-Line elevator legs that provide unsurpassed performance efficiency using 4B buckets," Dietrich says. "We

can proudly say not only do we sell D-Line elevator legs to our customers, but we also sell them to other grain industry suppliers."

Using key data, 4B continues to provide free technical assistance for designing new bucket elevators and conveyors, and increasing the capacity of existing elevators in industries ranging from feed, grain flour milling and brewing to cement, coal, sand and sawdust.

"We've designed legs that handle everything from foundry sand to hot dog buns," Dietrich reports. "If the product can be scooped in a bucket, moved on a belt and discharged, 4B can figure out the best components for the project. All legs we've designed using 4B products continue to run at capacity and beyond."

More than just selling products off the shelf, 4B engineers thrive on the challenge of problem solving and are on site and readily available to help before and after the sale. Call a 4B sales engineer for any questions regarding your capacity requirements 309-698-5611.

COMPANY NEWS

4B HAS MOVED TO A NEW FACILITY

4B Components, the USA division of the 4B Group, has re-located to a new state of the art facility in Morton Illinois.

"We outgrew our current location in East Peoria, IL a few years ago and we have been operating a number of satellite facilities to keep up with the demand for our products. This move will enable us to further improve our operating efficiencies and continue to provide the highest level of customer support that we are known for." - Johnny Wheat, 4B USA Senior Vice President

With branches and manufacturing facilities around the world, 4B hopes to continue to strengthen its brand and help customers with their continuing need for high quality competitively priced bulk material handling components. This new facility will bring 4B's total Worldwide manufacturing and distribution capacity to over 400,000 sq. ft.

Only our address is changing, we will have the same phone (309-698-5611) and fax (309-698-5615) numbers.



Our New Address:
625 Erie Avenue
Morton, IL 61550



SPARKY'S SHOCKERS

Auto-Set™ Point Level Monitoring



Brian Knapp Technical Manager - Electronics

The Auto-Set™ RF Capacitance sensor is one of our most popular and most reliable point level sensors. It features a bright status display with capacitance reading and push buttons for easy automatic or manual calibration. It contains a fail-safe relay that can be set for either high level or low level detection. Perhaps the most important feature of the Auto-Set™, though, is its power shield. As long as the power shield is protruding into the container, it will automatically compensate for material and dust build-up on the probe. The Auto-Set™ calibration will not have to be tweaked and the dust will not have to be cleared off of the probe: Set it and forget it!

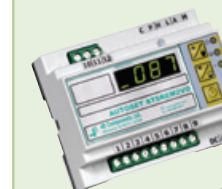


Auto-Set™
Display

The Auto-Set™ can either be mounted through the side of a bin with a rigid stainless steel probe, or from the top with a rigid stainless steel probe or a wire probe up to 33 feet long! It's not a problem if you are unsure of the exact length of wire probe that you need. You can just purchase it at the longest that you might need and adjust the length by coiling the cable. As long as it is still hanging freely (not touching the roof, wall, or any structure within the container), it will continue to operate normally. Once you have determined the final length, you can cut the cable to that length and reattach the weight. The standard unit has a 4-3/4" long power shield for normal applications, but if you have a thicker wall or roof (concrete), there are models with extended power shields of 12" and 16" available.

Auto-Set™
With Extended
Power Shield

Auto-Set™
Probes



Auto-Set™
Remote

If you have an application with high temperature or excessive vibration, we have solutions for that as well. With our Auto-Set™ polypropylene remote probe, you can mount the probe in areas with temperatures up to 248°F. With our PEEK probe, you can mount the probe in temperatures up to 487°F! The electronics are in a remote transducer which will be mounted in a lower temperature area and the remote controller can be mounted up to 650 feet away from the transducer.

Maybe you're looking for a more compact design to use as a heavy duty plug switch. Our Auto-Set™

Flush Probe has a 3-7/8" diameter stainless steel probe that only protrudes into the container 2". It is non-mechanical so it will not get stuck or damaged from the force of material. You can easily read the display through the clear window to determine if it's detecting a plug. It has all of the same features as the standard Auto-Set™, but with a different footprint.



Auto-Set™
Flush Probe

Auto-Set™ Series Set It And Forget It!