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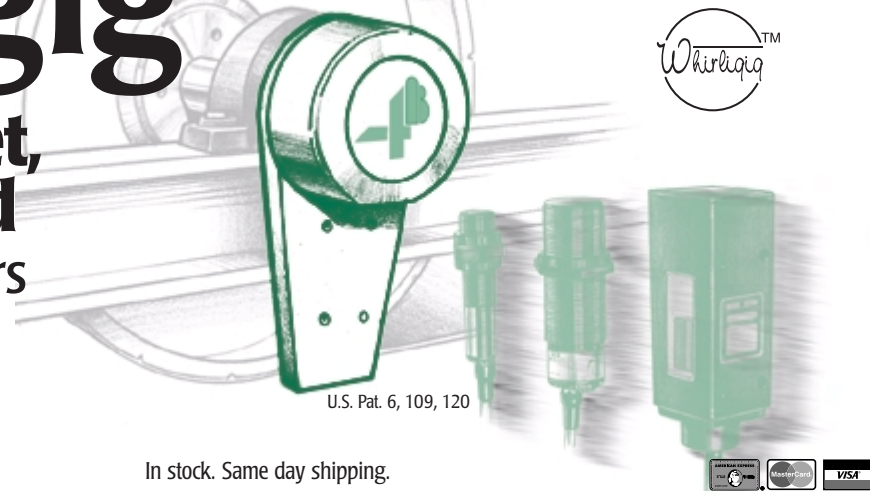
FIRST ISSUE!

"LOOK FOR
LEADING ICEBERG
 EDGE TECHNOLOGY
 IN NEXT ISSUE OF SCOOP"

THIS ISSUE OF "THE SCOOP" IS BROUGHT TO YOU BY...

Whirligig™ It makes sense!

**Combined Target,
 Bracket & Guard**
 Fits all standard sensors



In stock. Same day shipping.



US Patent for Whirligig!™ TARGET / BRACKET / GUARD

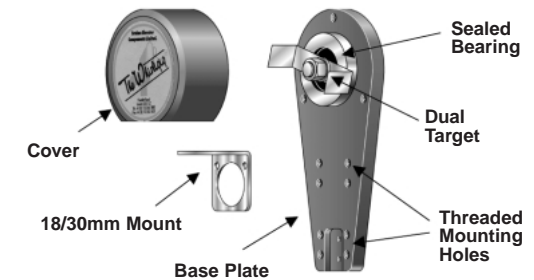
With more than 3000 Whirligigs now in operation throughout the World, the United States Patent and Trademark office recently approved registration of the "Whirligig" name and also granted a United States patent. (U.S. Pat. 6,109,120) This is good news for the Whirligig as there are numerous applications in many different industries calling for this clever device. Sales are expected to grow exponentially which is not only good for 4B but also for 4B's customers as greater demand means larger production runs allowing economies of scale savings which are passed on to the customer. "We are at the tip of the Iceberg" says Johnny Wheat, Manager of Electronic Product Sales at 4B, "it's like a sales explosion, as more and more companies begin to understand the unique value added benefits of the Whirligig".

From Grain and Milling operations to Mines and Quarries, and Equipment Manufactures to Electrical Contractors, Managers are realizing that using the Whirligig makes sense. It is a simpler, safer, and more reliable alternative to designing/manufacturing and installing custom brackets, targets and guards. Since it is universal, and works with any 18mm, 30mm barrel style sensor and most rectangular style sensors, it can be used with just about any manufacturer's inductive proximity sensor. Also, since the

target and sensor are now one assembly, machine vibration, shaft end float, and manual shaft adjustment/take-up has no adverse affect on the performance of the system.

Future developments include the design of a much smaller Whirligig, for accommodating 8mm and 12mm sensors. This "Mini- Whirligig" with its 1/4" threaded SS shaft could be used on machines where monitored shafts are as small as 3/8" diameter.

The standard Whirligig incorporates a dual target, which produces two pulses for every shaft revolution. Where slower shaft speeds are to be monitored, up to two additional dual targets can be installed increasing the output to six pulses for every shaft revolution.



TRADE SHOW SCHEDULE FOR 2001

FEBRUARY 19-20
ILLINOIS GRAIN & FEED
 PEORIA, IL
 BOOTH #405

MARCH 3-6
GEAPS INTERNATIONAL
 PHOENIX, AZ
 BOOTH #421C

MARCH 8-10
AFIA EXPO
 GUADALAJARA, MEXICO
 BOOTH #529

MAY 1-3
COAL PREP SHOW
 LEXINGTON, KY
 BOOTH #741

MAY 7-9
AFIA EXPO U.S.
 INDIANAPOLIS, IN
 BOOTH #819

MAY 8-10
POWDER BULK SHOW
 ROSEMONT, IL
 BOOTH #8526

MAY 19-23
AOM SHOW
 LOUISVILLE, KY
 BOOTH #541

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Please call for in-depth product information, or visit our website at

www.go4b.com

CEEJAY'S CORNER

**New Division:
4B Sudamerica S.A.**

**4B sets up new
operation in
South America**

Until this point in time, the 4B Group was comprised of Braime Pressings Company in the UK, Braime Elevator Components in the UK, Setem Components in France and 4B Components in the USA.



Chris J. Robinson
Senior Vice President
4B Components Ltd.
Vice Presidente
4BSA

company. This would allow the 4B group to far better serve the needs of customers in Latin America and Mercosur (South American Free Trade Association). November 2000 marked the start of various component manufacturing by 4B Sudamerica S.A. in Buenos Aires, Argentina. Due to its location, on the South East coast adjacent the Rio Platte (River Plate), Buenos Aires is central to our prime industries and will also provide easy access to the Brazilian market.

The Grand Opening of 4B Sudamerica will be held in Buenos Aires during early May



"Tango street scene from Buenos Aires, Argentina"

A few years ago it was decided that the growth taking place in the South American market warranted the formation of a "local"

of this year. If you would like further information regarding this please contact us.

Welcome to our new employees of 4BSA! (¡Sean bienvenidos nuestros empleados de 4BSA!) 🍷



Employee Profile

Hello, my name is Mark, and I recently graduated from Western Illinois University where I was a member of Sigma Pi Fraternity. Unfortunately I had to grow up, but I still find myself missing the good old days where work meant getting up out of bed. In my spare time I like to go fishing and boating in the Illinois River and even try to play the game called golf, but for some reason the ball seems magically attracted to water and sand traps. I guess I will never have the opportunity to play with Tiger, but hey, that's what dreams are for. 🍷



Mark Middleton
Marketing Manager

A New Name for an Old Face!

4B Elevator Components Ltd. has changed their name to 4B Components Ltd., to reflect their markets served. 4B is a subsidiary of Braime Ltd. est. 1888, which is located in Leeds, England, and is one of the largest suppliers of material handling components in the world. 4B was founded in the USA in 1984 and has endeavored to offer its clients a single source of quality material handling and electronic components. According to Chris Robinson, Senior Vice President of 4B, "The new name reflects more accurately the nature of our current business." 4B's philosophy is one of anticipating the needs of our clients, while offering them material handling and electronic components of the highest quality, value, and latest technology. 🍷

GEAPS 2001 INTERNATIONAL TECHNICAL EXCHANGE - PHOENIX
(Grain Elevator and Processing Society)

Where will you be on March 3rd through March 6th, 2001? We hope you will be in Phoenix, Arizona, for the 2001 GEAPS International technical conference and exposition. 4B will be present and exhibiting, along with many other grain industry operations professionals and suppliers.

GEAPS annual conference is the grain industry's premier educational and trade show exchange. The three day conference is packed with several scheduled educational sessions tailored to topics related to issues affecting the grain handling industry. Whether you are in elevator operations or in manufacturing equipment, you will not want to miss the opportunity to attend the educational sessions and idea exchange. Everyone goes away learning something that they can take

back to their respective business and build upon.

What's better, is the networking opportunities available to all in attendance. Come and get re-acquainted with your industry peers, share some stories, (believe me, you will hear some great tales) relax a little and simply have an enjoyable experience while at GEAPS. And what a better place to catch some warmer climate, which should be around 74 degrees, and break the mid-west winter blues! Take the opportunity to attend the many scheduled social activities as well as your own, you won't be sorry.

4B invites you to stop by their booth, number 421, in the Phoenix Civic Plaza south lobby #2. Rick and Mark will be happy to show you the latest technological advances in the 4B product range. Nicholas

Braime, our company President and James Mawson, 4B's Chief Technical Engineer, will also be there from our Leeds, U.K. division.

We look forward to seeing you there, and having a GREAT GEAPS experience! 🍷

Phoenix Civic Plaza
225 East Adams St.
Phoenix, Az 85004-2333

The trade show floor schedule is as follows:

Sunday, March 4th
11:30 am - 4:30 pm

Monday, March 5th
10:15am - 2:15 pm

Tuesday, March 6th
10:15 am - 1:30 pm



SPARKY'S SHOCKERS



Johnny Wheat
Manager Electronic
Products

Question: Both OSHA and NFPA 61 allow up to a 20% slowdown from the rated speed on bucket elevators before an alarm or automatic shut-

down is required. This seems excessive to me, as it allows an unlimited time running at something less than a 20% slowdown, i.e., forever at 17% reduction from normal speed.

Answer: First, let me clarify a point on OSHA and NFPA 61 regulations. Both state that there must be a shutdown at no more than 20% slip. In addition the NFPA 61 regulation also requires an alarm activation at no more than 20% slip.

In my experience, as a belt slips on the head pulley of a bucket elevator, the lagging begins to lose its friction and eventually the belt comes to a standstill (100% slip). When the belt is at a standstill and the head pulley is rotating at normal RPM, it only takes a few seconds to "burn through" sufficient belt and weaken it to the point where it breaks. (In addition to the belt break scenario, there is a real danger of explosion due to the confined dust atmosphere and the heat generated by the friction between the head pulley and the belt.)

So, I would *eventually* expect to see a greater than 20% under-speed during a normal belt slip situation. And, although there could be some amount of belt damage/wear prior to reaching the 20% shutdown point the reg-

ulations help keep this to a low level by stipulating a 20% shutdown and not any greater. (30%, 40%, etc).

However, I would recommend that for bucket elevators in addition to the automatic 20% under-speed shutdown, there should also be a 10% under-speed alarm. This would provide a warning prior to shutdown, and as such would provide alarm indication during the 17% slip condition you made reference to in your question.

As a supplier of bucket elevator speed monitoring equipment, we offer two systems designed specifically for bucket elevators:

1. M800 Speedswitch. With 10% underspeed alarm and 20% underspeed shutdown.
2. Watchdog "elite" with user adjustable underspeed set-points. A 1% to 20% underspeed alarm and a 1% to 20% underspeed shutdown.

The Watchdog will also provide a shutdown if there is an alarm condition for a user definable length of time. (adjustable form 0 to 3 minutes).

The Watchdog will also monitor elevator leg acceleration during start-up. This prevents belt damage during the time from start to full running speed.

As we can see, the M800 fulfills the OSHA and NFPA requirements for speed monitoring, and the Watchdog System not only fulfills the requirements but also goes a lot further in protecting plant and personnel against dangerous underspeed conditions.

Send your questions through our website www.go4b.com or email Johnny at jwheat@go4b.com. Although we can't print them all, we will reply to all questions. 🍷