

NABCO ENTRANCES Inc.

Technical Newsletter

A Publication of the Nabco Technical Support Department



Welcome to Issue 8 of our Technical Newsletter. This publication is designed to help distributors and technicians stay up to date on the latest developments in the world of Gyro Tech products.

Please ensure a copy of this newsletter is distributed to each technician on staff.

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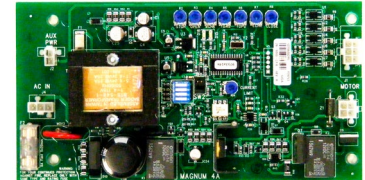
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Magnum Controls on GT1400 Folding Doors

The venerable Magnum control is now the standard control on the GT1400 Folding Door System.

When the Magnum is used on the GT1400 Folding Door, the mode of operation becomes "Power Open - Spring Close". If power close is desired, then one PC-20 Power Close Module (P/N 11-13140) for each clutchless operator must be used.



Rocker Switch Location on GT1400 Folding Door

As we announced in Bulletin # 60 on 09/27/2013 we have started changing the location of the rocker switch assembly prep on GT1175 Slider. We are now doing the same thing on the GT1400 Folding Door System. Previously the switches were installed on the access panel facing down on the underside of the header. This not only made them hard to use but also hard to remove the access panel for servicing. So just like the slider, the switches will now be located on the jamb.

The rocker switch will now be located on the 2" face of the jamb tube. As usual the switches will be mounted on the interior non-breakout side of the door. The switch cutout will be located at 71" from the bottom of the jamb to the top hole on the switch plate.

The option will still exist to have the prep for the switch on the underside of the header in lieu of the jamb face. If you wish to have the switch prep in another location, please indicate this clearly on your order form. If no special location is requested then the jamb will be prepped.

Changes to Interactive Worksheets

If you are involved in pricing we want to let you know that we have made a small adjustment to how the Interactive Worksheets print out. In the past, when they were printed, the NOTES section would also print. This no longer happens; only the worksheet itself now prints. The new versions are labeled "Rev 1"

Please download and replace your local copies with these new Worksheets.

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Adjusting Hold Open Power on the Magnum Control

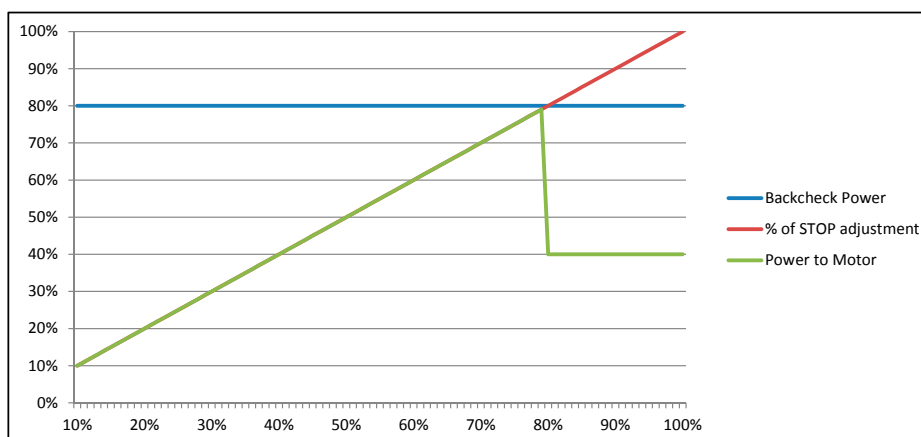
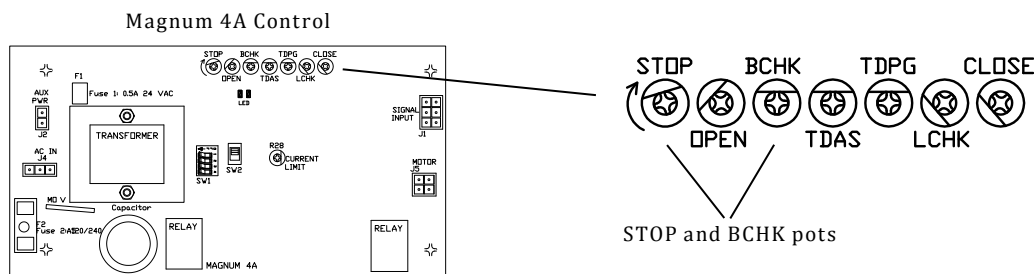
There is some confusion on how to adjust the Hold Open power applied to the motor for times when the mode switch on the door is set to "Hold Open". When Hold Open power is not correctly set, the door will start to drift closed after being held open for about 8 seconds. Before we try to clarify, the operation needs to be explained:

When the door reaches back check, the Magnum control is programmed to reduce power to the motor after 8 seconds. This is to prevent the thermal switch inside the motor from tripping and shutting down the door. After 8 seconds, motor power is reduced from the level set by the "BCHK" potentiometer to that set by "STOP". If the power determined by "STOP" is higher than "BCHK", the power to the motor automatically defaults to 1/2 of "BCHK" power. Refer to the chart below.

The chart shows BCHK speed set at 80% of full power. As shown, the power to the motor follows the STOP power until STOP = BCHK setting. Once STOP exceeds BCHK, the power to the motor drops to 1/2 of BCHK.

The key is find a "STOP" setting that's not too high or too low. This is done by to keeping STOP power slightly less than BCHK power. If a STOP setting can't be found where the door doesn't drift closed after 8 seconds, increasing "BCHK" will give the "STOP" adjustment more range to work within.

Note: Visual comparisons of the positions of the two potentiometers in question cannot be used to determine power levels. Also to verify correct operation, the door must be allowed to complete a full cycle after each adjustment is made.



Power to Motor At Full Open

If STOP power < BCHK then
Motor power = STOP

If STOP power >= BCHK then
Motor power = 1/2 of BCHK

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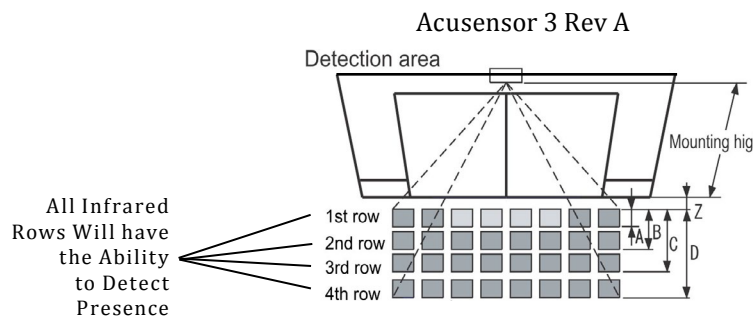
Acusensor3 changes

During the first quarter of 2014 we will be receiving a new version of the Acusensor3 (Rev A) that will be modified as follows:

1. Presence detection will be available on all infrared rows
2. The presence detection learn time of all infrared rows will be adjustable with dip-switches to either 2, 10, 30, or 90 seconds
3. The default sensor presence detection learn time will be pre-set to 30 seconds



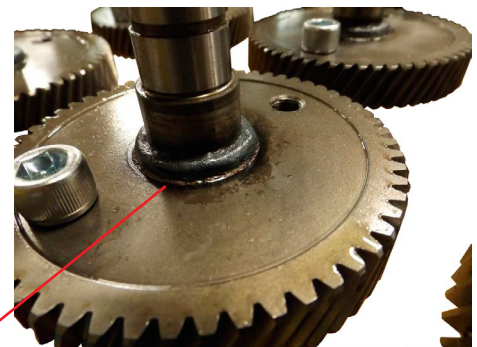
On the current version of this sensor only the 1st infrared row is enabled for presence detection. Rows two to four detect motion only. This makes it a suitable sensor for sliding doors but not swinging doors. The coming changes will enable the Acusensor3 Rev A to serve as an economical solution to providing presence detection on the swing side of low energy swing doors.



Operator Gear # 1 is Now Welded

Refer to illustration at right. The vast majority of you will never see this gear because it is embedded within our GT300/400 swinger operator. But for those of you who are interested, the main gear assembly P/N 24-0375-01 is now produced as a welded part. This means that shaft P/N 24-0383 and main gear P/N 24-0400 which had previously been locked together with slot and woodruff keys are welded together. This will increase longevity and reliability.

Weld



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Quick Setup and Parts Guides (QSPG)

As some of you might have already noticed, we are in the process of moving the exploded service parts sections found in the price book (D1 to H10 inclusive) to the Quick Setup and Parts Guides (QSPG's) that are sent out with each product.

This means that at the end of each QSPG for a particular product you will find the corresponding service parts pages for that product. This is a significant undertaking so it will be an ongoing process for some time to come. Existing sections will remain in the price book until they are superseded.

This will accomplish five important functions:

1. It will place the service parts lists in the hands of the technicians and installers who need them most.
2. The service parts list that appears in each dated guide will now be pertinent to the product as it was produced during that time period. For example, a QSPG for a GT1175 slider produced in 2013 will have a different service parts list than one produced in 2015.
- Using this method will help distributors determine what parts are needed for a given model. Different revisions, as they are superseded, will be archived on the web site for future reference.
3. It will make the price binder significantly smaller in size and easier to navigate.
4. It will translate into faster more accurate updates of each parts section.
5. QSPG's are tailored to the specific configuration of each product therefore the respective service parts illustrations will reflect this also.

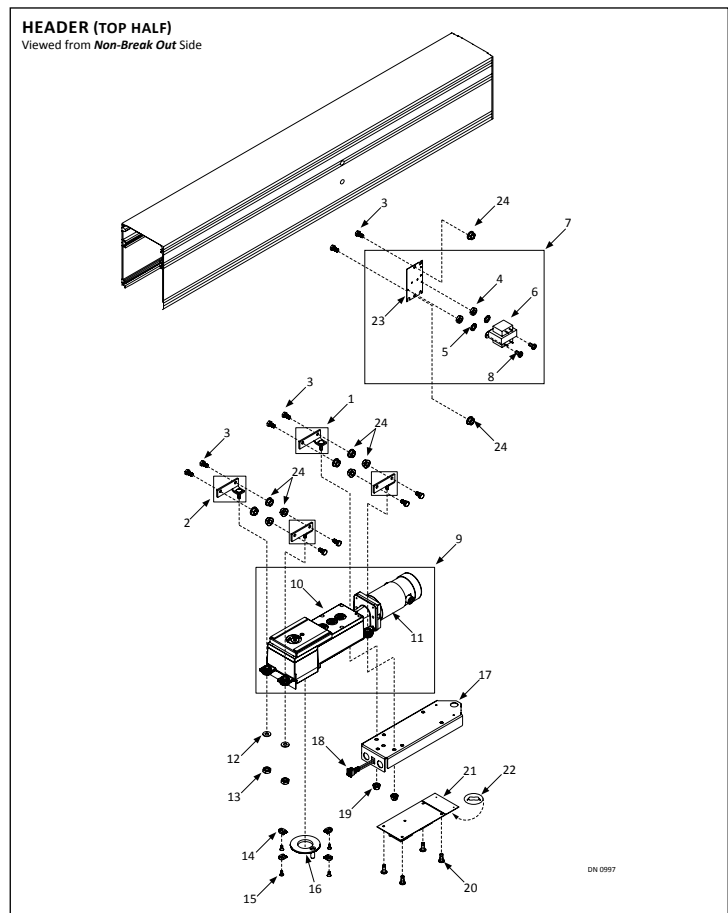
All QSPG's or complete Installation Manuals can be downloaded from our website at:
www.NabcoEntrances.com.

NOTE: QSPG's are not a substitute for the complete installation manuals. Please read and refer to the complete installation manual for each product before undertaking any installation or service work.

To access the QSPG's on our web site refer to the instructions on the following page....

www.NabcoEntrances.com
Rev 10-08-13

GT1400 Standard Single and Hurricane Single Quick Set-Up Guide
P/N 15-12499-016



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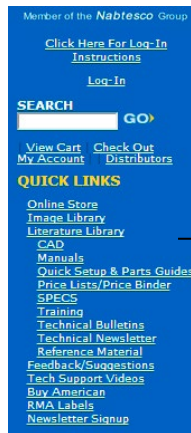
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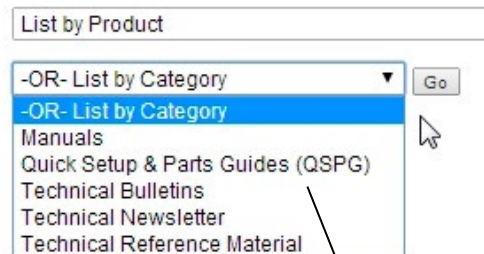
Accessing the Quick Setup and Parts Guides

To access the Quick Setup and Parts Guides on our web site (www.NabcoEntrances.com) follow the steps below:



Step 1

After logging in, click on the "Quick Setup and Parts Guides" link on the left side of the page



Step 2

A drop down dialog box of available documents will appear. Click on it and select "Quick Setup and Parts Guides" (QSPG). Click "GO"



Quick Setup & Parts Guides (QSPG)

TITLE	DOC. NO.	REVISED	DOWNLOAD
1100 Electric Lock Quick Setup Guide	15-5223	03/07/2012	PDF
1175 Electric Lock Retrofit Kit QSPG	15-12499-030	01/22/2012	PDF
1175 Electric Lock Retrofit Kit QSPG	15-12499-031	01/23/2012	PDF
1175 Fixed Sidelite Quick Set-Up and Parts Guide	15-12499-018	12/09/2013	PDF
1175 Quick Set-Up Guide	15-12499-002	03/07/2013	PDF
1175 Surface Mount with Wall Track Quick Set-Up and Part Guide	15-12499-017	12/10/2013	PDF
1400 Standard Bi-Fold and Hurricane Bi-Fold Quick Setup Guide	15-12499-015	10/08/2013	PDF
1400 Standard Single and Hurricane Single Quick Setup Guide	15-12499-016	10/08/2013	PDF
2100 Manual ICU Slide Door Quick Setup Guide	15-12499-013	08/28/2013	PDF
2100 Self Close ICU Slide Door Quick Setup Guide	15-12499-006	10/21/2013	PDF
2100 TEL ICU Slide Door Quick Setup Guide	15-12499-009	08/28/2013	PDF
2125 Manual ICU Slide Door Quick Setup Guide	15-12499-012	08/28/2013	PDF
2125 Self Close ICU Slide Door Quick Setup Guide	15-12499-007	10/21/2013	PDF
2125 TEL ICU Slide Door Quick Setup Guide	15-12499-010	08/28/2013	PDF
2150 manual ICU Slide Door Quick Setup Guide	15-12499-014	08/29/2013	PDF
2150 Self Close ICU Slide Door Quick Setup Guide	15-12499-008	10/21/2013	PDF
2150 Telescopic ICU Slide Door Quick Setup Guide	15-12499-011	08/29/2013	PDF
Acugard and Magnum Quick Setup Guide	14-12121-10	09/04/2010	PDF
Acugard and USeries Quick Setup Guide	14-12121-20	08/14/2010	PDF
Acusensor 3 Quick Set-Up Sheet	15-13943	08/30/2012	PDF
GT1500 Convenience Window Quick Set Up Guide	14-13768	11/11/2011	PDF
GT300-8300 Quick set-up sheet	15-12499-005	02/24/2011	PDF
GT710 Quick set-up sheet	15-12499-003	02/24/2011	PDF
GT8400 8500 Quick set-up sheet	15-12499-004	02/24/2011	PDF
U30 Programming Convenience Window Quick Setup Guide	14-13768	11/10/2011	PDF
ARCHIVE 1175 Quick Set-Up Guide	15-12499-002	01/29/2013	PDF
ARCHIVE Acusensor 3 quick set-up sheet	15-13943	05/03/2012	PDF
ARCHIVE GT2100 Quick setup sheet	15-12499-006	01/20/2013	PDF
ARCHIVE GT2125 Quick setup sheet	15-12499-007	02/01/2013	PDF

Step 3

A list of all the QSPG's will appear. Click on the PDF link in the DOWNLOAD column on the right to open or download the required file

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Added Versatility to the U30 Slider Control

In January of this year we announced in Technical Bulletin 59 that we have added additional features to the U30 Control used in our GT1175 Automatic Slider. We just want to highlight some of the more important and useful features. These special functions help to make it the most versatile and sophisticated control available today. Shown below are a few of the more useful updates. A full list of the changes can be found in Bulletin # 59.

1. *Emergency Close and Lock:* A signal from a remote switch can be used to signal the door to ignore all sensors and immediately close. The electric lock will also engage if so equipped. Normal operation is resumed on release of signal.
2. *All Mode Activation:* A signal from a remote switch can be used to signal the door to open in any rocker switch position except OFF. This is useful for activation of the door by card reader, exterior key switch, or keypad.
3. *Automatic reset of encoder count:* The software in the U30 has been fine tuned to recover from Recycle errors due to slamming caused by belt jumping or obstructions. It does this by automatically moving the door panels to the full open position and resetting the encoder count after three continuous obstructions. The door will then resume normal operation based on current rocker switch settings.
4. *Electric Lock Error can now be reset by any of the following methods:*
 - Reset U30 Controller by turning 120 VAC off then on again ~ OR ~
 - Connect Handy Terminal & clear error message ~ OR ~
 - Turning ON/OFF switch OFF then ON again ~ OR ~
 - Opening then closing panic breakout circuit.

Please note to enable functions 1 and 2 the newer blue Handy Terminal P/N 14-8903 is required.

Making it Easy to Contact Us

As our valued customer, we want to be as accessible to you as possible. We understand that your being able to reach us when you need to is important. We have established multiple ways for you to do this:

By phone: 877-622-2694

By e-mail: techsupport@nabcoentrances.com

By text: 262-682-0080

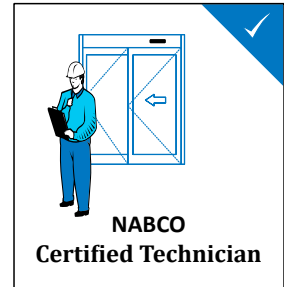
Please remember, there might be times when we are all on the phone and just cannot be reached. If you are on site and need to talk to one of our Tech Support people, please ask the switchboard operator to take your name and number and someone will be sure to call you back as soon as we can.

We strongly encourage you to call if you are not sure of a problem before replacing a part. Our experienced staff have been trained to assist you to find the exact cause of the problem and to avoid the possibility of replacing needless parts and multiple callbacks.

As usual, we welcome feedback and suggestions on issues you are currently experiencing in the field. This valuable information helps us to improve our designs and provide you with a better product that is more reliable and user friendly.

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DS150/U30 Retrofit Kits for Various Automatic Sliding Door Systems

While we are on the topic of all the great features of the U30 control, we want to let you know that we are working to expand the line of slider retrofit kits we have available for alternate door systems. Along with the popular kits we have been selling for older GT1175's, Stanley Duraglides, and Dor-o-Matics, we have developed kits for Horton and Besam sliders.

Now, owners of Horton and Besam sliders can know what it is to enjoy the sophistication and reliability of the Gyro Tech sliding door drive train.

The five new kits listed at right are ready for active field tests. If you are interested in participating please contact Nabco Technical Support.

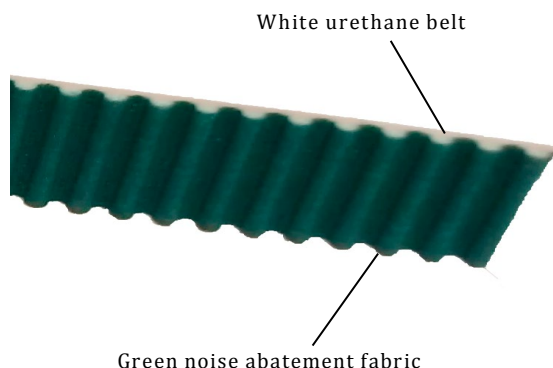
Please note: By their nature, products under field test have not been released and are still in the design stage. Therefore multiple returns to the job site for possible adjustments or repairs should be expected and allowed for in cost estimates to your customer.

Refer to page J1-18 in our price book for additional information on existing kits.

DS150/U30 Retrofit Kit

Part #	Description
12-11969-01	Gyro Tech GT1175 Single
12-11969-02	Gyro Tech GT1175 Bipart
12-11969-03	Gyro Tech GT1100 Single
12-11969-04	Gyro Tech GT1100 Bipart
12-11969-05	Stanley Duraglide 3000 Single
12-11969-06	Stanley Duraglide 3000 Bipart
12-11969-09	Dor-O-Matic 96k Single
12-11969-10	Dor-O-Matic 96k Bipart
NEW 12-11969-15	Horton 2003 Single or Bipart
NEW 12-11969-17	Besam Unislide Bipart
NEW 12-11969-11	GT1175 Telescopic U19 to U30 for LH Fixed Sidelite ~ or ~ Right Hand Full Open
NEW 12-11969-12	GT1175 Telescopic U19 to U30 for RH Fixed Sidelite ~ or ~ Left Hand Full Open
NEW 12-11969-13	GT1175 Telescopic Bi-Part

New Slider Retrofit Kits



Older Style GT1175 Telescopic with Squeaky Belts

Are you dealing with an older style GT1175 Telescopic with U19 Control that has a squeaky belt?

We now stock a special 5 mm, fabric covered, "noise abatement" belt that helps reduce or eliminate this problem.

Order P/N 14-13763 - Sold by the Foot

(Not for use with U30 / DS150 motor gearbox)

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Remote Access Control Panel for GT1175 Sliding Doors

Looking for a Remote Access Control Panel for the GT1175 Slider that will eliminate the hassle of interfacing the door to a third party computer or access control system?

The Remote Access Control Panel allows full door control and monitoring from a remote location. An external daily timer can be connected to automatically control the door mode at specific times each day. It is ideal for applications such as nurses' stations, guard houses or reception desks.



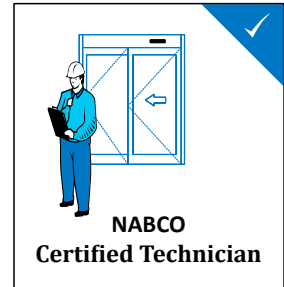
P/N 11-10579-30

Features

- Designed for the GT1175 sliding door
- Allows full door control and monitoring from a remote location
- Two mode switches allow the operator to control access and Open or Hold Open door functions
- Access control has choice of three settings: two-way traffic, one-way traffic, or restricted access
- Mode changes are confirmed by audio signals or LED indicator lights
- Eleven LED lights allow monitoring of: door mode, presence of an object or pedestrian approaching door, and door status (locked, open or broken out)
- A keyed lock prevents changes to mode settings
- Main On/Off switch safety feature stops door and freezes it in position
- Energy saving feature for sliding doors reduces size of door opening stroke to conserve heating or cooling energy
- An external daily timer may be connected for automatic door mode control

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New "Acuzone" Sensor for Automatic Sliding Doors



We are now selling the new Acuzone sensor for use with automatic sliding doors. This sensor is an option on all GT1175 sliding door packages.

The Acuzone uses microwave for activation detection and infrared for safety detection around the threshold. It also provides enhanced safety with additional infrared presence detection which looks backward into the threshold area when the door is in the open position. The sensor does not need to detect the door panel to operate correctly. Infrared

row 1 looks through the door opening when detection occurs from either microwave or infrared presence detection rows 2 & 3. Rows 2 & 3 are always active. Row 2 needs to be adjusted to within 3 to 5 inches of the face of the door.

This ability to detect in the threshold dramatically increases the level of safety that can be achieved. The additional threshold infrared detection places the sensor's operation well beyond the level of requirements of the ANSI 156.10 standard. Gyro Tech® has tested this product in several different environments and has found it to be reliable and easy to install.

New Deeper Pattern OA Axis Sensor for Automatic Sliding Doors



Part Number
14-14718

Are you looking for an infrared motion sensor with a deeper detection pattern than the Acusensor3?

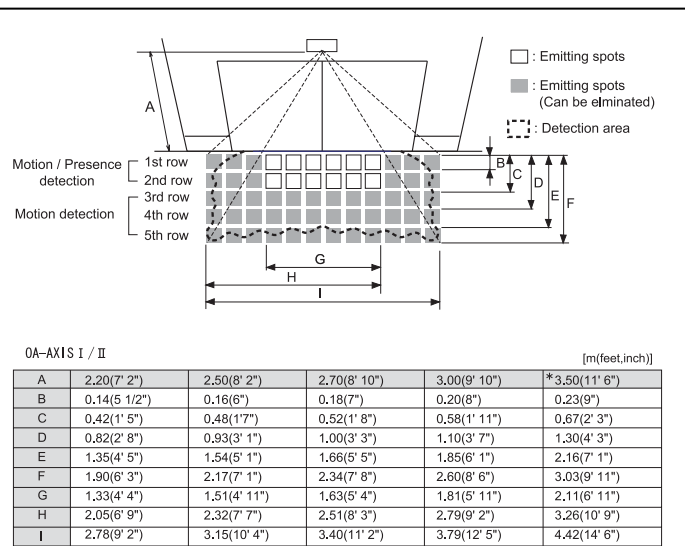
In the next month or so we will be offering the OA Axis sensor.

When mounted at 7' 2" this sensor has a:

Pattern width: over 9 feet

Pattern depth: over 6 feet

Refer to the chart at right.



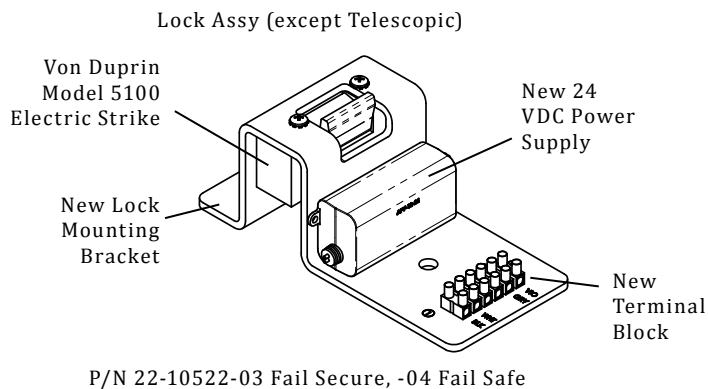
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New Electric Lock for GT1175 Automatic Sliding Doors

We have a new simplified electric lock assembly for the GT1175. The design integrates a new 24 VDC power supply for the electric lock and eliminates the external rectifier that used to be included on the old design. The lock and power supply are now a complete assembly that brings everything together into a nice tidy package with just four wires: 2 wires to Auxiliary Output on U30 control and 2 wires to 120 VAC. This simplifies the wiring and makes the lock circuit easy to install or service. Note: Components shown are part of a kit or sold separately.

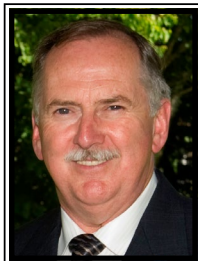


Electric Lock Retrofit Assemblies U30 Controls	
Electric Lock Fail Secure	21-10471-03
Electric Lock Fail Safe	21-10471-04
Electric Lock Retrofit Assemblies U01 to U19 Controls	
Electric Lock Fail Secure	21-11658-03
Electric Lock Fail Safe	21-11658-04
Kits include Lock Assy as shown at left plus other components necessary to retrofit existing doors	

Getting to Know Us

In this and coming issues we would like to take this opportunity to introduce ourselves.

If you have attended one of our Technical Training Seminars you probably have had a chance to meet a few of the people that work in our Technical Support Department. There are five people that make up the Technical Support Department so over the next five issues you will see a short profile of each person. This issue introduces Mike Buckley.



Mike is our Technical Support Manager. Mike has been in the pedestrian automatic door business for about 23 years, 13 of which he has worked for NABCO ENTRANCES Inc. Before that he worked at the distributor level as an installer, technician, sales person and estimator.

Mike and his wife Barbara have two grown children. He and Barbara live on an acreage that has been in family hands for around 200 years. He enjoys hiking, fishing, and general outdoor activities. After having "been there, done that" himself, Mike says one of the biggest pleasures of his job is helping technicians get to the bottom of a frustrating problem that has ruined their day. Here is Mike's contact info. Give him a call!

Michael Buckley

Technical Support Manager

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Scan with Phone



Next Issue Meet:

Rick Filas