“Innovation by Design”

Designed and Built in America

Unique Automation Products with #COOL Features

Serving a $4 B/yr. Market Segment

With Great Margins up to 40%

No Inventory Investment

AVG Automation Division

- ✓ Limited Distribution
- ✓ Virtually No Competition!
- ✓ No Inventory Investment!
- ✓ Unique Features at Great Prices

Easy to Learn, Easy to Sell and Simply Fun!

AVG Automation Division

Digital Timer

Long range Stainless Steel Proximity Sensor

Smart Encoders

Digital Power Supply

About AVG Automation…

Installed Base of $1 Billion World Wide

Automation Division

American Plants in Heartland of America

Significant Highlights and Core Competencies…

- Established in 1968, AVG has introduced more than 500 innovative new products
- Extensive hardware, firmware, & software design capability in the heartland of America
- Hold 20+ Patents & 15 New Pending
- AVG Semiconductors, 10 million sqft. Plant in Minsk, Belarus
- Thick film hybrids for analog precision electronics
- 40 layer PCB fabrication
- 3 EMS Plants for Complete Turn Key Assembly & Box Build
- AVG Eagle, secure telecommunications

American Pride in Manufacturing

All Research, Development and Manufacturing for AVG Automation is done at our American Plant

Headquartered in Chicago, IL

AVG's Track record of First's

"Innovation by Design"

Automation Division

- Inventor of PLC in 1968
- Introduced C-MOS transistor technology in industrial controls, 1970
- First use of a Microprocessor in Automation controls, 1972
- Invented PLS & created a new industry in 1975
- Introduced first Touchpanel HMI, 1992

First microprocessor based modular PLS with an incredible scan-time of 57 microseconds for 20,000 setpoints

First integrated digital resolver, DigiSolver, Standard of the tire industry

First PLS with a built-in PLC

Due to the patented DMA techniques utilized in its PLSs to achieve 1° accuracy at even 3000 RPM, Autotech's M1250, 1450 series PLSs remain the exclusive standard for two piece can lines throughout the world.

First Touchpanel HMI

Five Traits Common to AVG Automation Products

Automation Division

1. Highest Processing Power per Cubic Inch

We have always packed the most processing power per cubic inch in most of our products. M1150 PLS remains today as the most compact PLS in the business. This is possible because of the vertical integration of AVG companies allowing us to utilize our strengths in the semiconductor technology, thick film hybrid technology and printed circuit board technology.

2. Highest Operating Speed

We hold numerous patents in the area of high speed PLC or PLS operations, particularly under electrically noisy environments. Our M1250 PLS can process 20,000 of 3 digit set points in 57 microseconds, the fastest in the industry. Our recently introduced TouchPLS can process 256 of 4 digit set points in less than 10 microseconds.

3. Simplest Human Interface

We require our design engineers to spend considerable time in technical field support. They have gone through numerous machine start-ups. They recognize the importance of simple human interface. You will find that trait throughout AVG Automation products. We developed a five key interface for our PLSs where as all our competitors use at least 20 keys. The simplicity and Ease of use of AVG Touchpanel is already legendary. In developing the AVG Touchpanel and AVG Text panel products, our designers counted the number of clicks for every operation, resulting in an HMI where you can develop a fairly complex screen in less than 10 minutes.

Five Traits Common to AVG Automation Products

AVG Automation Division

4. High Reliability Products

Our rigorous design and manufacturing process has earned us the reputation for providing "Built Like a Tank" and "Uticor Tough" products to the industry. Most notably, our LED marquees look the same 10 years after their installation as they looked on the first day of operation. All products are HALT/HASS certified.

"Built Like a Tank"

5. Highest Immunity to Electrical Noise

We come from a background where our Automotive customers, such as Pontiac Motors, back in 1976, required us to run encoder wiring right along side with 440 VAC motor wiring without a shield as they did not want to change the connector between the control cabinet and the machine. You see, we had just invented the PLS and were replacing the old rotary cam switch with a PLS. GM wanted the benefits of the advanced technology but not change their wiring. Our Autotech division designed a Resolver based PLS where you could run it right along with 440 VAC and withstand unimaginable inductive kicks. In fact, we ended up making the resolver wiring short circuit proof and capable of taking a direct 120 VAC hit.

AVG started in the Automotive Industry in 1968

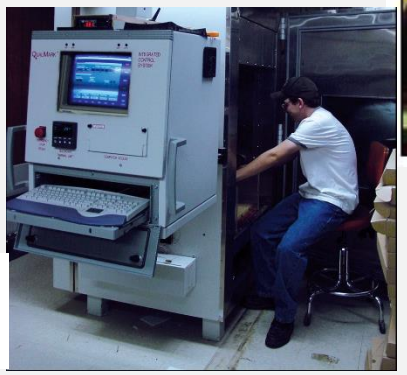
AVG products in a coal mine in Australia

All our products go through exclusive noise testing and have the following ratings:

NEMA ICS 2-230 Showering Arc
ANSI C37, 90a-1974 SWC
Level C Chattering Relay Test

HALT CERTIFIED HASS

-60˚C to 150˚C at 100 ˚C/min and 50 Gs of shock and vibration



Smart Power Supply™

AVG Automation Division

Compact, DIN Mount, up to 240 Watts. NEC Class 2 up to 90W
Digitally Programmable with Bright LED Display

- ✓ **3 Digit Bright LED for Output Voltage**
- ✓ **2 Digit Bright LED for Output Current**
- ✓ **Programmable Current Limit**
- ✓ **Display Maintenance Timer Remaining**
- ✓ **Output Voltage Setting Adjustment**
- ✓ **1/4 to ½ the Form Factor Size of Competition**

#COOL Display & Program

Smart Power Supply™

AVG Automation Division

Digital, ¼ the size up to 240 W

#COOL

2"W x 3.1"H x 6"D

Self-locking DIN-rail latch

Rugged Metal Construction,

Simple to Wire Phoenix Plug-in Terminal Blocks

Maintenance Timer diagnostics

Display Alarms and Diagnostics

DC-output monitoring

3 Digit bright LED display for output Voltage

2 Digit bright LED display for output Current

Pot for Adjustable Voltage

Programmable current limit

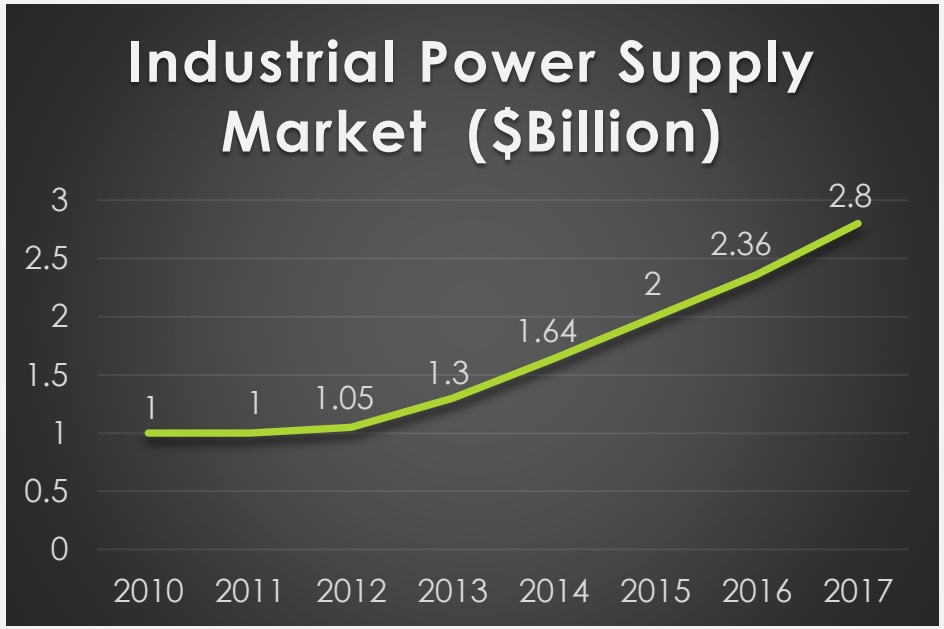
Just 2" Wide

Power Supply Market Potential

Automation Division

- **U.S. Market for industrial power supplies up to 240 Watts is over $2 Billion/yr.**
- **Smart Digital Power Supply starting at $149 with up to 40% margin for Distributor**

#COOL Display & Program



Maintenance Personnel
Just Love the Display

Tough Prox™

AVG Automation Division

Stainless Steel Long Range Inductive Proximity Sensors with Great Prices and Great Margin

- ✓ 8 mm, 12 mm, 18 mm, 30 mm
- ✓ Long Range Sensing Distance
- ✓ Robust, Chemical Resistant Wash-down Stainless Steel Housing
- ✓ World Class Electrical Specifications
- ✓ “Cool Light Ring”

Tough Prox™

AVG Automation Division

12mm Stainless Steel at $49, Up to 40% Margin

- Time delay <100 ms
- Repeat accuracy <=2%.
- Differential travel 2-10%

Temperature ranging from -25° C to 70°C

3-wire, 2mtr cable

- Operating voltage 10-30V DC
- Load current 200mA
- Leakage current <= 10 µA
- Reverse polarity protection
- Output short-circuit protection

2.5 mm Flush, 4.00 mm Non-Flush sensing range, PBT sensing head.

12 mm Stainless Steel

#COOL

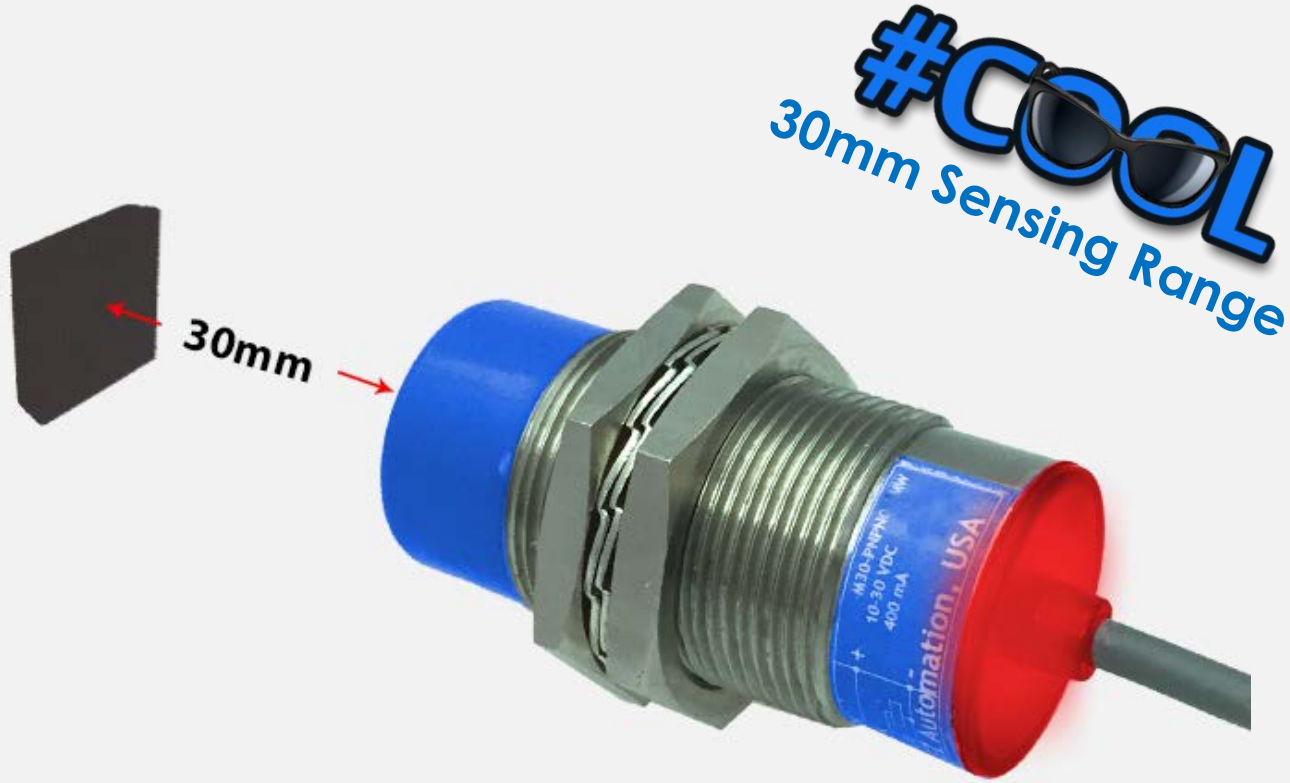
360° LED Light Ring

Tough Prox™

AVG Automation Division

30mm Stainless Steel Long range at $119, up to 40% Margin

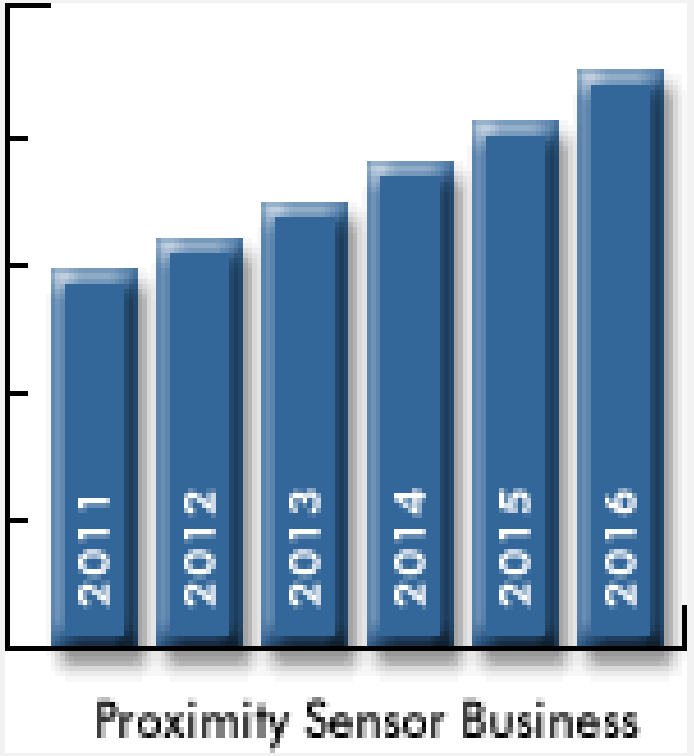
30mm Sensing Range



Prox Market Potential

- **Inductive Proximity Sensor Market is over $500 Million/yr. (growing at 22.8% CAGR)**

- **On average, AVG Prox is 30-40% less compared to Rockwell Automation, Turck, Banner, Pepperl & Fuchs, Sick, Omron etc..**



Smart Tough Encoders™

AVG Automation Division

Field Programmable (Type/Count) starting $495

No Laptop or Software Required to Program

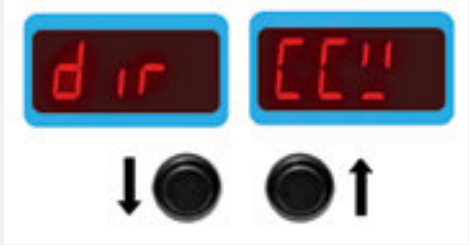
- ✓ **4 Digit Bright LED Display with 2 Simple Push Buttons**
- ✓ **Password Protected: Total Lockdown Capability**
- ✓ **Displays Count & RPM for troubleshooting #COOL**

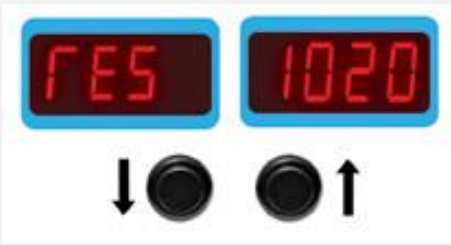
#COOL Field Programmable Display

2 program buttons

Save 30-40%

Program any Resolution and Code from 10 to 5000 while installed and connected





Up to 5000 PPR

Smart Tough Encoders™

AVG Automation Division

Field Programmable (Type/Count) starting $495

- BEI Programmable Omni coder
- Needs Laptop
- Needs Software
- Needs Cables
- Approx. $700 in Cost
- Incremental Only

2 program buttons

#COOL Field Programmable Display

- ✓ AVG Smart Tough Encoder
- ✓ No Laptop needed
- ✓ No Software needed
- ✓ No Cables needed
- ✓ Incremental/Absolute
- ✓ Displays Position/RPM
- ✓ Starting at $495

Smart Tough Encoders™

AVG Automation Division

Drop-in Replacement for BEI, Dynapar, Rockwell & EPC

- ✓ **Heavy Duty 80 Lb Shaft rating**
- ✓ **Rugged NEMA 4/4X, Class I, DIV II Aluminum Housing**
- ✓ **Absolute Resolver Based Options for ultimate reliability**
- ✓ **Ethernet I/P, Modbus TCP/IP, GE SRTP, DeviceNet, Profibus, Interbus, & SSI options on Absolute Encoder models**

#COOL

Twice as Rugged & 30% Savings

Price Starting at $395

Hose-down with 80 Lb shaft load

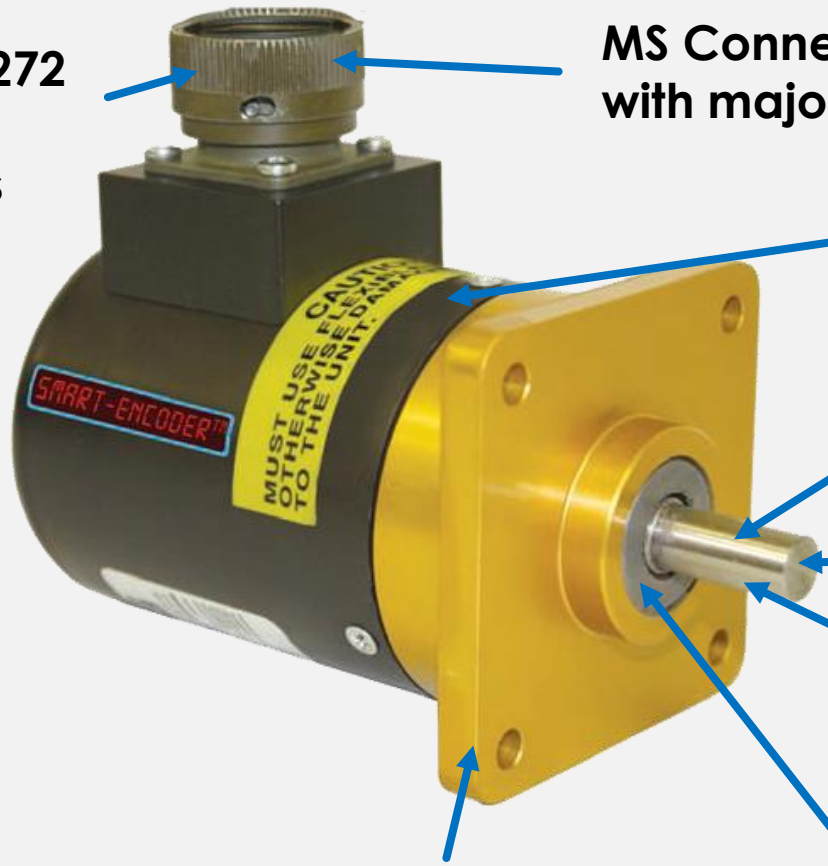
Smart Tough Encoders™

AVG Automation Division

Heavy Duty Size 25 Incremental Encoder at $395

10-30V DC Power or ET7272 short-circuit proof outputs

MS Connector pin compatible with major brands



NEMA 4/4X, IP65, Hose-down

80 lb. Axial/Radial shaft load

3/8” Stainless Steel Shaft

Max. 5000 RPM

Dual row bearings with shaft seal

Servo, Face or Flange

#COOL Mechanical Shaft Load Strength

Smart Tough Encoders™

AVG Automation Division

World's Smallest NEMA 4/4X Hose-down for $245

Size 15

NEMA 4/4X Hose down construction

15 lb. Axial/Radial shaft load

1/4" Stainless Steel Shaft

2 single row Bearing with shaft seal

Up to 720 pulse per revolution PPR

Servo or Face mount in the same model

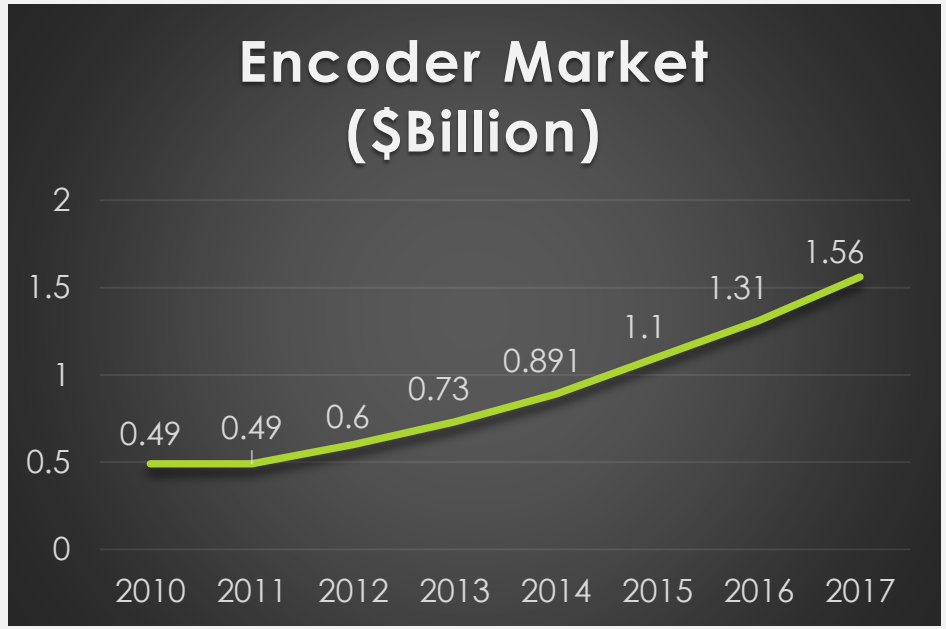
NEMA 4/4X Cable Fitting

10-30V DC Power or ET7272 short-circuit proof outputs

Encoder Market Potential

Automation Division

- **Industrial Shaft Encoder Market is currently at $1.1 Billion/yr. (growing at approximately 18.9% CAGR)**
- **AVG Smart Encoder is on average 30% lower than competition with up to 40% margin for Distributor**



Digital & Multi-Function Timer

AVG Automation Division

No Knobs and One Model to Replace all your Timers
Starting at $49, Saves your Customer Up to 40%

Octal Socket Digital Timer
with Precision time Setting

#COOL **Multi-Function Model with 10 Programmable Modes: On delay, Off delay, One shot, Cycle etc.**

#COOL **3-Digit LED Countdown display for help in Machine operation and trouble shooting**

#COOL **Digital Setting with 1% Resolution, 1% Absolute Accuracy and 0.1% Repeat Accuracy**

2 program buttons

Digital & Multi-Function Timer

AVG Automation Division

*From the Original Designer & Founder of Timers, back in 1972

All Digital Programmable Timers with Flexible Features at $99!!

Direct Replacement for Ametek/NCC

3-Digit LED Time Display

Remaining/Elapsed Time Display

Password Protection/ Security

Widest Time range from 0.01 sec to 999 hrs

S.EC	0.01 - 9.99 seconds
SEC	1- 999 seconds
MI n	1- 999 minutes
Hr	1- 999 hours

Multi-Function Model with Ten Programmable Modes

Press either key to select the Timer type:

- On Delay On break
- nSS Single Shot
- OFF Delay Off break
- CYC Cycle
- PUL Interval
- rSS Re-triggerable Single Shot
- ISS Inverted Single Shot
- tSS Trailing Single Shot
- idb Inverted Delay Off break
- AdL Accumulated Delay On break

No Knobs, Digital Setting
1% Resolution
1% Absolute Accuracy
0.1% Repeat Accuracy

Industrial Timer Market Potential

- **Industrial Timer Market is currently at $200 Million/yr.**
- **With AVG Timers, say Good-Bye to Knobs, Pots, and tens of timer models based on application.**
- **Direct Replacement for Ametek / NCC Timers**
- **Digital & Multi-Function Timer starting at $49 with up to 40% margin for Distributor.**

Universal Digital Timers
40% Savings and Margin

Recap: AVG Automation for Distribution

AVG Automation Division

Make a Ton of Money in Selling Every Day Use Automation Control **Products with the "Coolest Features"**

- ✓ **Serving $4 Billion/Yr market segment.**
- ✓ **Best Suited for End-user Plants**
- ✓ **Competitive Market Prices**
- ✓ **Up to 40% margin**
- ✓ **No Inventory Investment**
- ✓ **Limited Distribution**
- ✓ **Less than $1000 investment in #COOL Demo Box**

AVG Products

Automation Division

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