



TRANSFORMING
YOUR PRODUCT IDEAS
INTO GREAT USER
EXPERIENCES



WE INVITE YOU TO REINVENT YOUR PRODUCT WITH PIEZO SWITCH AND CONTROL SOLUTIONS FROM EVERSWITCH

If you aspire to create exceptional products that balance form & function and provide meaningful experiences to the people who use them, this ebook is for you.

PRODUCT TEAMS HAVE A LOT ON THEIR SHOULDERS

Your products need to stand out from the crowd.
 Stand the test of time. And be valued by customers.

You must deliver rapid ROI, market differentiation, and get to market fast. All while working with limited time and budget and technology agnostic partners.

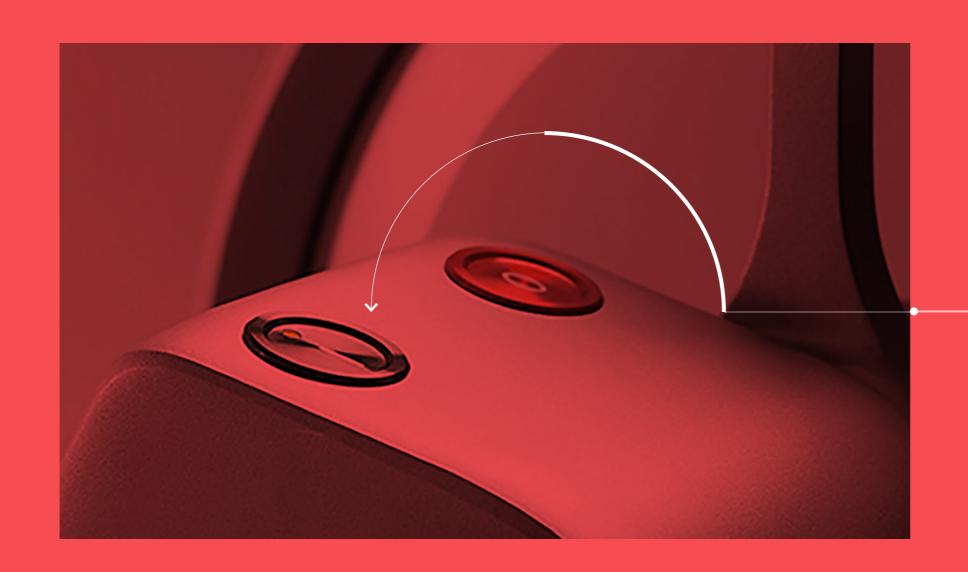
We get it. That's why we're here to help make your goals a reality.

For product teams, the stakes are high, constraints are many, and time is short



GREAT COMPONENTS
INSPIRE

EXTRAORDINARY
PRODUCTS





At Everswitch, we don't just create switches and control systems, we develop mini-masterpieces of form, function and aesthetics that inspire your imagination.

We invite you to learn how
Human Machine Interface
(HMI) systems can play a small
but vital part in creating your
next product masterpiece.



FORM & FUNCTION

"Form & Function". It's an inseparable duo.

If you aspire to create products that deliver great user experience, you cannot trade one for the other.

By always combining thoughtful usability with appealing aesthetics, Everswitch enables you to bring extra value to your next product.



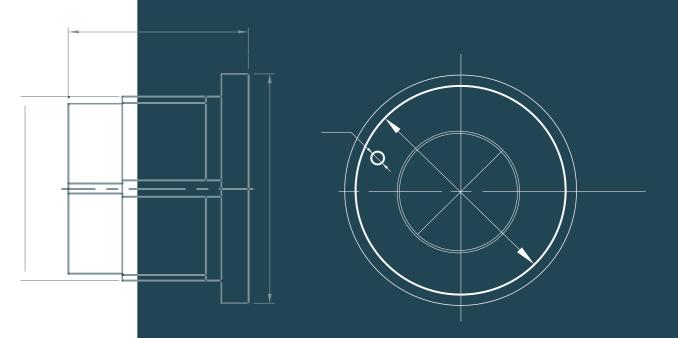


NOT ALL SWITCHES ARE CREATED EQUAL

Everswitch piezoelectric switches, panels and keypads are your secret sauce - adding relevant user experiences to your products.

Everswitch Touch Metal technology leverages the piezoelectric effect to create switches and keypads that reach a level of toughness, quality, reliability, intelligence and customization that conventional mechanical switches can only dream about.

Here's why.



• What is the "piezoelectric effect"?

Applying mechanical pressure to certain crystal materials will generate voltage. This is known as the "piezoelectric" effect. Where external power is unavailable, or batteries are not a viable option, this is extremely useful. But there's a lot more to Everswitch's piezo solutions besides power efficiency.



ENGINEERED FOR THE WORLD'S TOUGHEST ENVIRONMENTS

Completely sealed & impervious to the environment

Operating from -40 to +125°C.

With no moving parts, eliminates switch failure due to motion, friction, dirt, moisture, vandalism or ice

Meets or exceeds CE, UL, IP69K, NEMA, MIL-STD, ATEX, ETL and FAA requirements

Everswitch piezo solutions are built to withstand extreme weather conditions, hazardous environments and vandal-prone locations.

Everswitch piezo solutions use patented technology for switching functions in solid housings, with no moving parts. This results in a hyper-ruggedized switch with high impact resistance, that makes it virtually indestructible.

Everswitch's patented modular approach eliminates the need for a solder connection to the delicate piezo ceramic. This creates a robust 125msec minimum switch closure (cf. market standards of just 20msec).

Everswitch metal technology uses single unit modules that eliminates the need to handle multiple components for every single push point manufactured.



ENSURE YOUR PRODUCTS STAND THE TEST OF TIME

There are no moving parts, so nothing to break down.
You'd be forgiven for calling us the "forever"-switch company

When you design your product using our switches or control panels, you are building in longevity, reliability and durability. Everswitch patented technology offers unsurpassed operational life, making it the ultimate solution for demanding, industrial environments and high traffic applications.

Successfully tested for **50,000,000 cycles** including vibration and impact tests

Certified to the International Quality Standard ISO 9001:2008

Industry-leading five-year warranty



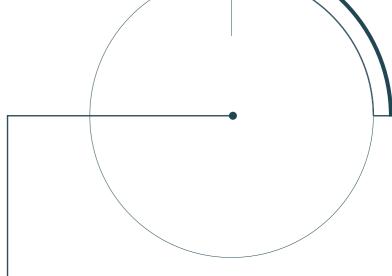


DESIGNED WITH PUBLIC HEALTH IN MIND

In today's environment, all frequently touched areas require frequent disinfection.

Our switches, keypads and control panels exceed IP-69K requirements for washdown.

With no areas for germs, pathogens or dirt to collect, Everswitch products can withstand constant cleaning with the most aggressive detergents and are waterproof to the point of actually being submersible.



So viruses, beware





Our switches and controls are waterproof to the point of being submersible up to 300 meters. They are unaffected by gradual pressure changes and designed to prevent false activations and deformation.

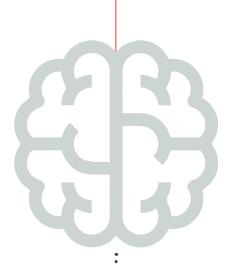
Used at sea or deep underwater, your controls are guaranteed to function without fail.

Most conventional switches don't like water. Ours love it

WORKS PERFECTLY IN WATER, OR UNDER IT

- Operate submersible equipment, lights, or dive computers to 300m.
- Solid metal housings are completely sealed to prevent water ingress
 - Piezoelectric technology exceeds
 IP-68 & 69K requirements for submersion
 - Ideal for wet environment applications such as outdoor emergency switch, full pumps & more
 - Used in oceanographic equipment, UAVs, oil platforms, wind turbines, etc.

SMART FUNCTIONALITY, GIVING USERS GREATER CONTROL



Featuring microchip technology, Everswitch "smart" solutions provide an array of different functions beyond a simple momentary switch closure. Prolonged, toggle, continuous, programmable and slide switch functions can be incorporated as well.

Everswitch "smart" solutions feature built-in software and proprietary algorithms that expand operability and user functionality, as well as self-diagnostic reporting capability and switching of line voltages.

Everswitch also offers the ability to integrate
Bluetooth and WiFi, eliminating the need for cables,
allowing remote operation, and even providing IoT
connectivity.

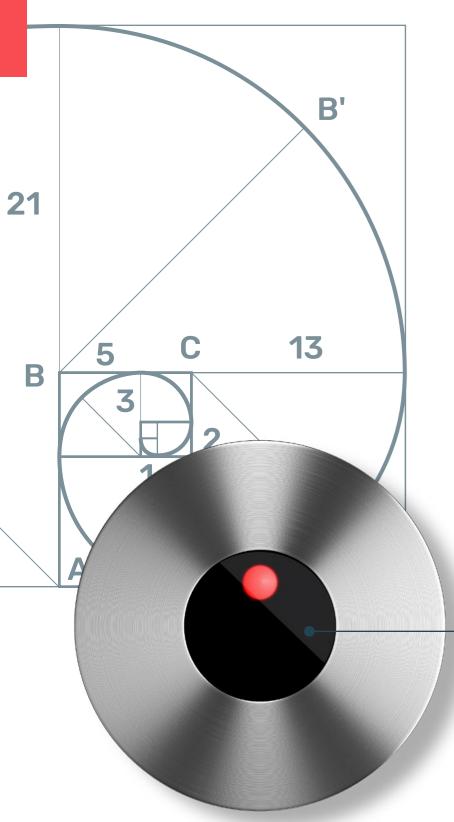


- Switching functions: momentary, toggle, prolonged/continuous, timer, slide, dimmer, programmable and self diagnostic
- Integrate Bluetooth and WiFi
- Low power consumption, press sensitivity, tactile or haptic feedback
- Communication protocols: Matrix, CAN bus J1939, ASCII, common bus, etc.
- Conforms to keypad & keyboard communication protocols – Serial IF (I2C, UART, RS232, RS485, USB, SPI), Parallel IF
- Switching of line voltages up to 277 Volts and 30 Amperes



Bring your creative vision to life, with fully customizable piezo switches:

CREATE PRODUCTS YOUR CUSTOMERS WILL LOVE



From the first impression, to the first interaction, to the first maintenance - great products create great experiences, again and again.

Creating memorable user experiences are never accidental. They happen when aesthetics, form and function work beautifully together.

We afford you many options for customizing and personalizing your switches and control systems - from the materials and color illumination to haptics.

So you'll love designing your product, as much as your customers will love using it.

- Customized laser engraving and anodized aluminum
- Ring or point illumination and LED color selection
- Housing materials: aluminum, stainless steel, glass, wood and polycarbonates
- Piezoelectric modules can be arranged in a myriad of configurations - from individual switches to multifunction switch panels and keypads

SUPPORTING YOUR PRODUCT DEVELOPMENT CYCLE, FROM A TO Z

Meet your commercial goals faster and with less friction. From design and engineering support until project completion. From material selection to component integration, our engineering team is at your side.







Relax, your language is spoken here.

So, in addition to quality piezo switches, you can also expect on-going support from our in-house team of experienced electronics engineers who are always available to help you solve your product engineering challenges.





MASTER THE JOURNEY FROM CONCEPT TO MANUFACTURING

Everswitch supports customers in all stages of planning in order to help you:

Reduce costs

Optimize process

Minimize risks

Smooth integration between product design and manufacturing

Deliver products within budget and schedule

Get your product development off to a flying start!

You'll receive support early in the design & development stages, and careful consideration of your product requirements up-front to reduce or eliminate delays and redesign costs down the line.

So your journey to the finish line is smooth and resource-smart.

Concept & Design

Drawing

Tech Documentation & Specifications

Prototyping & QA

Production



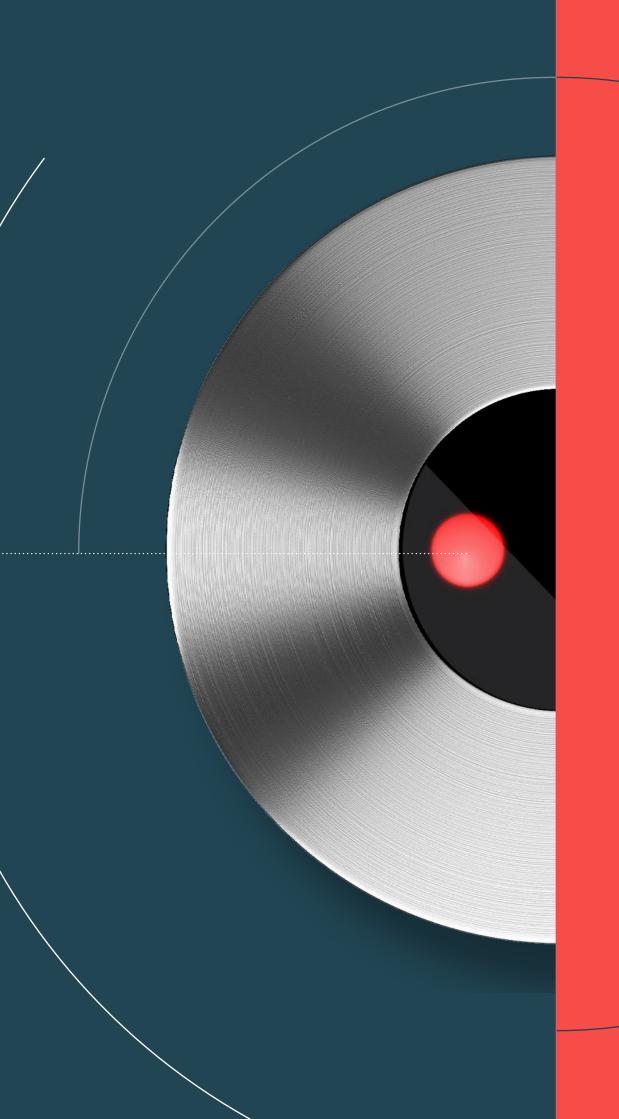
ONSITE MANUFACTURING, FOR BETTER RESULTS •

Seeing the big picture helps deliver your specific concept, exactly as you want it.

Having R&D, concept development, machining capability, assembly and inspection all on one site, allows us to respond quickly to your needs, and helps ensure your product gets to market faster.







APPLICATIONS

















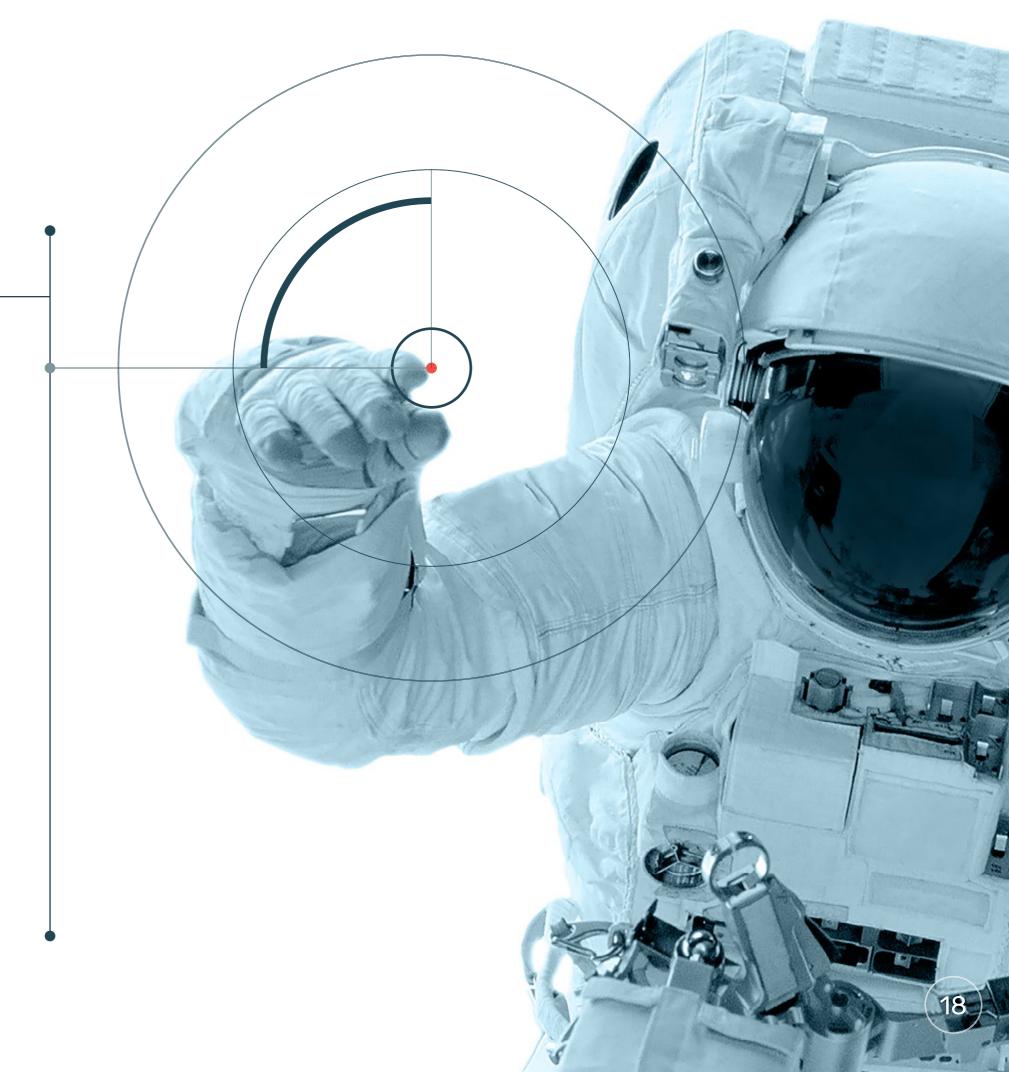




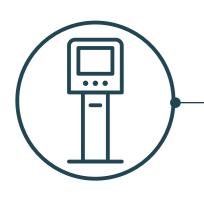
UNLIMITED APPLICATIONS CUSTOMER-CENTRIC SOLUTIONS

From luxury white appliances to naval equipment and submarines, more than 500 million Everswitch modules are used in applications worldwide.

By continuously responding to the market's evolving needs and feedback, we always keep our customers in the center.







Rugged, vandal-proof Touch Metal solutions provide user-friendly interfaces, install & forget convenience, and withstand bad weather and bad behavior in equal measure.

- Public WiFi Kiosks
- Bike Share Systems
- Parking Meters and Pay By Space Stations
- Emergency Call Systems
- Correctional Facilities Phone Kiosks
- Port Access Control Kiosks high security application





Streamline user interfaces for public transport operators, with multiple functionality in a single controller; reliably endures constant use while in motion.

- Access Control Keypads for Aviation and Rail
- Train Door Switches and Keypads
- Lavatory Controls for Aviation and Rail

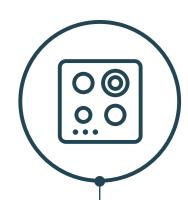




Fit for aggressive sterilization & disinfection, our Touch Metal keypads protect against Hospital Acquired Infection (HAI). In addition, Everswitch has a line of non-touch infrared and ultrasonic switches that also address challenges related to public hygiene.

- Lab/Clean Room Access Controls
- Sterilizable Keypads for Clean Rooms
- Pharmaceutical Manufacturing and Controlled Substance Environments
- 120V Lighting and HVAC Controls
- Switches Inside of Glove Boxes



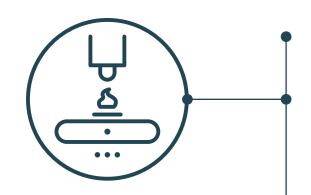


Everswitch gives designers of white appliances the freedom to create control interfaces combining the latest in functionality with contemporary and minimalist styling. Piezo switches fit seamlessly behind stainless steel/metal surfaces, providing a superior user experience than pushbutton switches: more attractive, more reliable, and easier to keep clean.

- Commercial Warewashing Equipment
- Quick Serve Restaurant Equipment
- Espresso Machines
- Dish Washers
- Microwaves
- Kitchen Hoods



FOOD PROCESSING & QUICK SERVE RESTAURANTS



Chef safe and FSMA compliant, our solid surface piezo switches and keypads are easy to clean and sterilize, reduce downtime to near zero, and provide years of trouble free operation in the busiest food preparation settings.

- Kitchen Control System
- Bump Bars
- Steamers and Deep Fryers
- Meat Mincers, Bone Saws, Sausage Fillers
- Tenderizer and Strip Cutting Machines
- Hamburger Forming Machines
- Slicers, Peelers & Graters
- Fish Filleting, Skinning and De-heading Machines

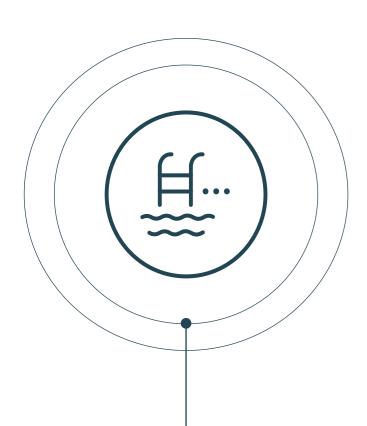








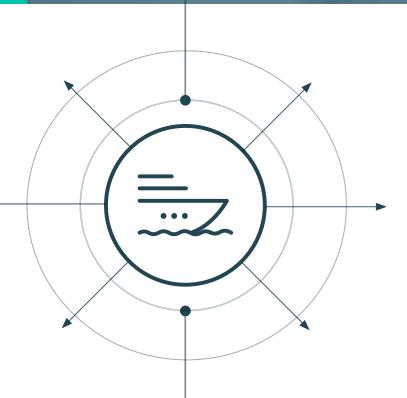




Bring a splash of luxury to the spa, swimming pool and jacuzzi experience by adding underwater switches and controls connecting seamlessly to the customers PLC.

- Spa Controls
- Shower Controls
- Steam Rooms
- Water Park Controls





Enjoy the perfect blend of form and function for marine craft. Sleek design and aesthetics meet ultra-reliable water and weather-resistant housings and CAN bus protocols providing simple installation in a ship's CANbus cable network.

- **Helm Control Panels**
- **Blowers and Pumps**
- Sanitary: Lavatory and Galley
- **Thrusters**
- **Winches and Anchors**
- Indoor and Outdoor Lighting
- **Swim Platforms**
- **Engine Controls**
- Access Keypads and Door Controls
- Man Over Board Wearable Alarm
- Oceanographic Instrumentation
- Fish Weighing Equipment
- Dive Gear and Computers
- UAVs, Submarines: Internal and External





Rated at 50 million activations, switches and control panels are operational from -40 to +125 deg C, impervious to harsh weather and high altitudes and are tamper-proof for maximum security.

- Cockpit Access Panels
- In-Flight Entertainment (IFE) Systems
- Kick-operable Lavatory Switches
- Emergency Call Pushbuttons
- Return to Seat Indicators
- Ground Support Equipment



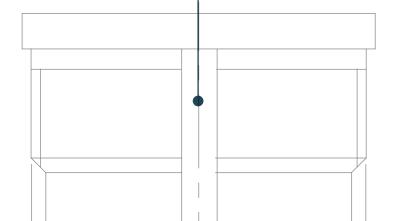


OIL & GAS / CHEMICAL INDUSTRY ...



When safety and reliability are critical, our switches and control panels are the first choice. They are built to prevent unintended activation by thermal shock.

Completely sealed in solid metal housings, Everswitch products are ideally suited to remote, hazardous and unattended situations and meet Class 1 Div1 requirements.



- Mining
- Oil & Gas Production
- Gas Stations
- Chemical Processing
- Remote Location Fleet Refueling
- Access Control Keypads at Well Heads and Refineries, Metering Keypads at Refineries and Tanker Trucks
- Airport Refueling Equipment, Valve Controls
- Off-Shore Production Rigs, Class1
 Division1 Enclosures



PIONEERS IN PIEZO SWITCHING TECHNOLOGY



EVERSWITCH HAS BEEN THE LEADER IN PIEZO SOLUTIONS AND APPLICATIONS
FOR OVER 30 YEARS.

In fact, we were the first company to introduce commercially viable piezo switching technology - Everswitch piezoelectric Touch Metal technology for switches keypads and control panels.

Today we continue to lead the way with innovative, aesthetic, and ultra-reliable user-interface switches and controls, combined with full engineering support to enable customers around the world to develop products with strong and lasting market appeal.

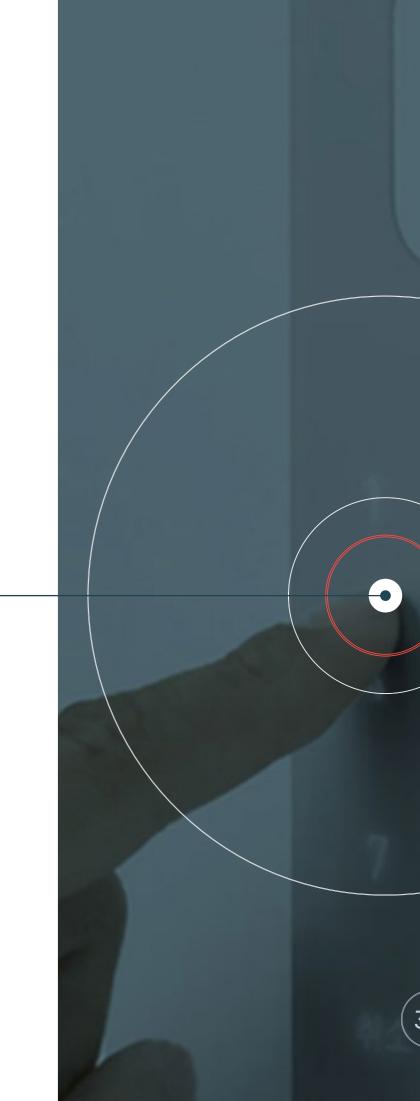


CREATE PRODUCTS RESPONSIVE TO ENVIRONMENTS AND USER NEEDS

If you share our passion for creating products that take form & function to a new level of user experience and satisfaction, we'd love to hear from you:

sales@baran-at.com

www.barantec.com





Everswitch is a leading provider of customizable switching solutions for the world's most demanding user environments. From marine and aviation to white appliances, public transport, self-service terminals and medical equipment, our switches, keypads and control panels are deployed in millions of applications worldwide.

As a company, our mission is to help manufacturers transform their product ideas into meaningful user experiences. By integrating design, engineering and production under one roof, we enable our customers to streamline product development and speed up time to market.

Everswitch was the first company to introduce commercially viable piezo switching technology and continues to set the standard in switching innovation.

For more information, please visit our website

