Innovation and Engineering

SCHURTER is a leading innovator and manufacturer of fuses, connectors, circuit breakers, input systems and EMC products as well as a PCB assembly service provider for the electronics industry worldwide. Success for and together with our customers is our permanent incentive. We are accustomed to being innovative to meet challenges in diverse markets. We boldly realize new ideas, and we support and drive forward our R&D teams, each day anew.

Business Excellence all along the Line

It is SCHURTER’s goal to achieve sustained excellence in results and added value. Since 1991, we have steadily applied TQM (Total Quality Management) and followed Business Excellence principles. We manage, monitor and further improve processes with the aid of our management systems, which have been established certified in accordance with ISO 9001, ISO 14001 and OHSAS 18001 (for more information, go to www.schurter.ch). In addition, we use the recognized SIX SIGMA problem-solving methods specifically to minimize errors and to achieve a high standard for process integrity.

Quality and Approvals

SCHURTER guarantees the consistently high quality and absolute reliability of its products. Our state-of-the-art manufacturing facilities as well as our up-to-date know-how make sure we can fulfill our motto: “Clean and Safe Supply of Power – Ease of Use.” Our products carry all the country-specific certification labels such as VDE, ENEC, UL, CCC…

“Today and tomorrow, our customers will benefit from the world’s best products that meet their individual requirements. Our products’ outstanding quality, combined with our environmentally sound manner of doing business, is and will remain SCHURTER’s commitment.”

Hans-Rudolf Schurter, Chairman of the Board, SCHURTER Holding AG

> SCHURTER – Safety is Our Business
Consultancy
SCHURTER, in the 75 years since its foundation, has thoroughly familiarized itself with diverse application standards, acquiring extensive knowledge in implementing customer-specific solutions along the way. This combination of standard products and individual concepts paves the way to new approaches for developing solutions which can then be readily mass produced within a very short amount of time. Our well-organized global network of regional representatives and distributors ensures that our customers will benefit from a high degree of solution-based competence and short delivery times.

Customer Proximity
SCHURTER and its international representatives are perfectly familiar with the prevailing local regulations, requirements and peculiarities. Together we monitor trends and satisfy the needs of the market in general, as well as those of the individual users.

Development and In-House Manufacturing
SCHURTER offers comprehensive solution packages – from the initial concept down to the delivery of the systems ready for mounting. More than 50 engineers are dedicated to developing our products and manufacturing systems. Our expertise encompasses injection molding, metalworking, electroplating, assembly using automated manufacturing systems, clean-room touch panel assembly, casing systems manufacturing and PCB assembly as well as EMC product development and manufacturing.

Services
At SCHURTER, the ability to provide excellent consultancy services, optimal availability, perfect quality, ultra-compact solutions, outstanding design and an ideal price-performance ratio are all part of the package. The qualification of the materials used, continuous process improvements, durability tests, customer-specific systems optimizations and the preparation of the necessary quality certificates are important ancillary services. These are all essential success factors for sustained cooperation-based partnerships.

> Core Competences

“We target our innovation-driven system to customer-specific solutions for any kind of input system. Thanks to our extended knowledge in various fields of technology and customer-oriented project management, we provide quality systems for almost all applications, to our customers’ full satisfaction.”
Bruno Ochs, CEO, Input Systems Division
We focus on components and systems ensuring the clean and safe supply of power and ease of use of medical equipment according to IEC 60950 or 60601-1.

Our staff is steadfastly committed to guaranteeing maximum benefits and safety to the end customer. We meet application challenges and offer our customers a variety of innovative solutions, taking into consideration the core issues: durability, reliability, tightness, safety, hygiene, user-friendliness and highly functional integration.

1 | Splash-proof Appliance Inlets with Line Filter and Fuseholder
The use of laboratory equipment in a medical environment is, among other factors, restricted by “clean” performance of an appliance. In order to prevent ingress of humidity or dirt during cleaning, appliance openings (if any) must be sealed. The seal tightness is defined and tested according to IP protection classes. SCHURTER offers appropriate solutions for various features and mounting options.

2 | Power Entry Modules with Medical Filter
Laboratory equipment in medical environments are often operated without a ground conductor. In such cases, potentially hazardous leakage currents can occur. That is why there are statutory limits on leakage currents to ensure reliable operation. SCHURTER medical filters are designed accordingly, meeting the requirements as specified in the IEC 60601 and UL 544 standards.

3 | Dual-Tip Keypads
SCHURTER Dual Tip keypads combine the advantages of membrane keypads with two-step switching. This type of membrane keypad eschews complicated circuitry thanks to two separate switching contacts – i.e. one touch point can trigger two independent switching operations in succession –, hence meeting the special requirements of medical appliances.

4 | Fuseholders
The protection against hazardous residual currents in electrical appliances includes measures to prevent contact with live parts. SCHURTER offers shock-proof fuseholders designed especially for medical technology applications with integrated PC2 or PC3-class touch protection according to IEC 60601.

5 | Splash-proof Switches
Equipment used in operating rooms must be cleaned and sterilized for hygienic reasons. The demands placed on the user’s interface with the appliance, in terms of IP protection class and resistance to cleaning agents, are commensurately high.

6 | Touch Panels
The Touch panel is an easy-to-use and fast input device for interactive control devices, as are commonly used in medical environments. Touch panels with a sealed membrane are impervious to dirt and liquids, therefore easy to clean and hence perfectly suited to medical applications.

7 | Cord Sets
The instructions issued by hospitals regarding their equipment necessitate specific cord designs. These special requirements are all met by SCHURTER cord sets. Given the broad range of plugs and connectors available, a suitable power supply solution can be found quickly.
SIX SIGMA
SCHURTER distinguishes itself in all processes through the highest quality standards. Applying the methods of SIX SIGMA, we increase customer benefit and continuously improve our position in the market. We base our decisions on data and facts. In addition, we record the needs of our customers as well as process data, we analyze the results and we take measures accordingly. We use DMAIC, the systematic problem-solving tool of SIX SIGMA, to constantly improve our processes. This also involves eliminating waste of any kind. Our success using SIX SIGMA can be measured.

Cooperation
Maintaining a close dialog with our customers throughout the product development process, we obtain optimal solutions. By automating complex workflows using semi- and fully automatic systems, we achieve high process security. And thanks to permanent process monitoring and clean-room manufacturing, SCHURTER’s customers will receive high-quality products and systems.

Measurement and Testing
SCHURTER’s qualification laboratories are equipped with the latest in measurement and test gear. Various physical and chemical key parameters such as force-displacement curves, load-shutdown behavior, high-voltage resistance or the viscosity of liquids and their wetting behavior on surfaces can be established here. Before going into mass production, SCHURTER products are extensively tested in climatic test cabinets, on durability test stands and at the EMC laboratory.

“Supported by business excellence and our committed staff, we meet the highest demands in terms of quality and innovative services that our customers place on us in over 50 countries.”
Anton Lauber, CEO, Components Division

Qualification

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SCHURTER is a leading innovator, manufacturer and distributor of fuses, connectors, circuit breakers, input systems and EMC products.

www.schurter.com/products
www.schurter.com/product_news
www.schurter.com/medtech

Fuses & Varistors
SCHURTER fuses are available as non-resettable and resettable surge protection components for primary and secondary use in electrical and electronic appliances. Varistors are similarly designed for surge protection.

www.schurter.com/fuses

Appliance Couplers
SCHURTER appliance couplers include a variety of connectors according to IEC 60320. The connectors may be supplemented with additional functional elements. Power cords round off our range of appliance couplers.

www.schurter.com/connectors

Circuit Breakers for Equipment
SCHURTER CBEs are designed as thermal or thermal-magnetic surge or undervoltage protectors. They are used primarily for appliance protection and only secondarily for personal protection.

www.schurter.com/cbe

Input Systems
SCHURTER input systems include metal and membrane keypads, switches, touch screens and touch panels as well as cabinet and control systems. A great variety of designs supports a wide range of applications.

www.schurter.com/inputsystems

EMC Products
SCHURTER provides a wide range of standard products to ensure electromagnetic compatibility. Products include single and 3-phase line filters with or without power entry module, chokes, pulse transformers and driver modules.

www.schurter.com/emc

Other Products
Voltage selectors, test jacks and plugs, indicators, audio, IEC, DIN, data and signal connectors as well as high-voltage products round off our product range.

www.schurter.com/others

Individual Solutions
Should you have individual needs and requirements, please feel free to contact us. We will gladly work out an optimal solution, for you and together with you.

www.schurter.com/contact

SCHURTER defines medical equipment as active medical products used mainly in diagnostics, of laboratories or as electric medical appliances.

Diagnostics Appliances
Diagnostics, in a broader sense, corresponds to the categorization of current states within known phenomena. It employs a variety of methods to gain insights, which are then helpful in the treatment of patients.

Laboratory Appliances
Means electrically operated devices used directly or indirectly support chemical (biological, physical) and electrical analyses.

SCHURTER supports medical equipment manufacturers worldwide, through technically sophisticated and well-engineered products, in their development work. That is why we consistently align our innovation process with the technological trends of this cutting-edge industry.

We have already begun work on compact and multifunctional power entry module combinations intended to respond to the rising demand for mobile units in diagnostics and those for home use.

Testing new materials and assessing innovative approaches with regard to our components' tight conformance, we will make a significant contribution towards easy and efficient compliance with hygienic regulations.

New laws governing appliance safety motivate us to enter into a dialog with our customers worldwide to work out solutions for EMC protection and power supply cord retention in a swift, consistent and cost-conscious manner.

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