



**JAKŠA** Jakša d.o.o., Šlandrova 8, 1231 Ljubljana, Slovenia, e-mail: info@jaksa.si  
**SOLENOID VALVES** tel.: +386 1 5373066, fax: +386 1 5373067

For SLI: enter 15067 at www.tim-info.com/ien

## A HYDRAULIC SHOCK ABSORBER THAT WON'T LEAK



It's true! Cushioneer® industrial shock absorbers operate millions of cycles without leaking even one drop of fluid. They have a patented leakproof diaphragm seal and combine high capacity with miniature size. Infinitely adjustable, the Cushioneer® stops gently-moving 5 lb. loads or crashing 500 lb. loads with equal smoothness. A companion unit, the leakproof adjustable Kinechek®, holds speed of moving devices constant month after month, without periodic re-setting. Contact us today.

**DESCHNER CORPORATION**  
 www.deschner.com  
 3211 W. Harvard Street, Santa Ana, CA 92704  
 (+1) 714 557 1261 e-mail: info@deschner.com



For SLI: enter 18884 at www.tim-info.com/ien



**TOPSCCC**  
 expert in I/O modules

**EX93712T Panel PC, fanless**  
 • 17" touch panel • Celeron M 1.5GHz  
 • SDRAM: DDR 256MB • HDD: 40GB



## Panel PC

At TOPSCCC we are your industrial computers partner. With over 20 years of experience we offer a wide range of products, from modularised measurement to panel computers - as well as customized solutions.

www.topscce.eu • www.topscce.com

For SLI: enter 18917 at www.tim-info.com/ien

(FSS) principle increases throughput – an essential parameter for applications as mask making and Electron Beam Direct Write. SB351 is easy to use with a transparent and user-friendly data and job handling interface. Its intelligent and fast pattern data handling is accomplished with proximity effect correction. Fully automated mask handling meets the demands of the semiconductor industry.

**VISTEC ELECTRON BEAM**  
 Tel. +49-3641-651900 • Fax +49-3641-9102339

For SLI: enter 16859 at www.tim-info.com/ien

## Capacitors

available in 16 different case sizes

The AR series is an automotive-grade conformally-coated ceramic radial leaded capacitor. Designated the AR Series, the product range encompasses NPO, X7R, and – most recently – X8R dielectrics, which allows for an extended temperature range up to 150°C, making the parts suitable for a variety of automotive and industrial applications, including underhood, in-cabin, and down-hole. AR series capacitors, with AEC-Q200 qualification, are well-suited for designers requiring a PPAP for new qualifications. All the necessary PPAP data is complete, and is available upon request. Operational in standard temperatures up to 125°C and extended temperatures up to 150°C, AR series devices are available up to 200VDC with capacitance values ranging from 1pf to 1µF. Available in 16 different case sizes, AR series capacitors are available in straight or formed lead configurations, with lead spacing options ranging from 2.54 to 9.525mm.



**AVX**  
 Tel. +44-1252-770000 • Fax +44-1252-770104

For SLI: enter 16814 at www.tim-info.com/ien

## I/O System

with ECO modules and ECO gateway

Numerous expansions have completed the BL20 I/O system for Profibus, CANopen, DeviceNet, Ethernet/IP and Modbus TCP. The compact Economy modules that can house up to 16 I/Os on 12.5mm width are now available. No tools are necessary, thanks to the integrated connectors with "push-in" spring-balancing technology. The ECO modules are complemented by the new ECO Gateway for Profibus DP and CANopen. Additionally motor starter modules that control motors as a direct or reversing starter up to 5kW with minimal wiring effort are offered. New RFID modules for incorporating the BL ident system and a programmable Gateway, that can relieve higher-ranking programmable logic controllers, are also available. The gateway is available for EtherNet/IP and Modbus TCP and programmable with CoDeSys. Conventional languages LD (ladder diagram), FBD (function block diagram), IL (instruction list), ST (structured text) and SFC (sequential function chart) are supported for programming.



**HANS TURCK**  
 Tel. +49-208-49520 • Fax +49-208-4952264

For SLI: enter 16748 at www.tim-info.com/ien

will be commercially available to providing flame retardant V0 standard at 0.8mm, excellent mechanical properties, GWIT of 775 °C at 3mm vs brominated PBT grades. The candidate for applications such as lamp sockets, and components.

**GE PLASTICS**  
 Tel. +31-164-292338 • Fax +31-164-292339

For SLI: enter 19123 at www.tim-info.com/ien

## Filter Fans

increased airflow in

The latest fourth generation of Filterfan, has free airflows ranging from 25 m³/h to 925 m³/h. The unique new design uses a pleated fabric filter and a sophisticated louvre profile to give a significantly higher filter life three times longer. pre-separation in the lamella majority of water and dust not extending its lifetime and requirements. The Click and for fixings, providing harder mat changing, giving product. The family comprises variants filtering to an IP55 seven IP55 versions capable screening, achieved by mesh steel grid, is available for

**PFANNENBERG**  
 Tel. +49-40-734120 • Fax +49-40-734121

For SLI: enter 16836 at www.tim-info.com/ien

## 16-bit Microcontroller

64Kbytes of Flash in

Eight new members of the PIC24F 16-bit microcontroller family are available, with up to 64 Kbytes of Flash program memory and up to 8 Kbytes of RAM, in smaller, lower cost, 28- and 44-pin packages including a tiny 6x6 mm 28-pin QFN package option. The devices support simple PIC24F microcontroller a dsPIC33 digital signal controller by the MPLAB IDE environment - including the enhanced, which graphically assists in the configuration, generating the required Pin Select pin-mapping the available pins exactly. The C compiler provides in addition, a new version of the board is available.

**MICROCHIP TECHNOLOGY**  
 Tel. +44-118-9215800 • Fax +44-118-9215801

For SLI: enter 16843 at www.tim-info.com/ien