

THE FUSE, SENSOR & CONTROL EXPERTS

AUTUMN / WINTER 2019

KEEPING YOUR
PRODUCTION
LINES ALIVE



**KEMPSTON
CONTROLS**

WWW.KEMPSTONCONTROLS.CO.UK
SALES & SUPPORT - 01933 411411
SALES@KEMPSTONCONTROLS.CO.UK

Welcome to the 2019 Autumn/Winter edition of 'Keeping Your Production Lines Alive' from Kempston Controls. We pride ourselves in offering expertise in branded Fuses, Sensors, Controls and now much more.

NEW!



Live Chat

To enhance our customer's experience we have recently launched a live web-chat. Whether it's a sales quote, a technical query or aftersales support web chat gets you a response fast!

Expert Technical Support

Dedicated teams with over one hundred years of combined experience in the electrical industry, covering all of our core product ranges. We're always here to help so please get in touch with any questions or queries you may have and we will be happy to assist you with your enquiries.



Team in the Field

We can provide on-site technical help with our national sales applications and support teams based all over the UK.

Free Delivery

Online UK Customers can receive one free standard carriage per day on UK orders over £20*



More Stock Than Ever Before

Our new Worldwide Logistics Centre allows us to hold more stock than ever. This means we are more likely to have the products you need ready to dispatch the same day for next day delivery!

Excellent Customer Service

Using Feefo, a completely independent company, you can view the feedback and reviews on our products and service. All of our feedback can be found online through the Feefo portal.



*Subject to our standard delivery terms and conditions



KEMPSTON CONTROLS

What's new at Kempston Controls

Danfoss Drives Authorised Partner

It's been a busy year at Kempston Controls this year and one of our achievements is becoming an Advanced Authorised Partner for Danfoss Drives. This means we have even more access to advanced product ranges providing more options for our customers.

In recent months we sent members of our technical team to the Danfoss Training facility in Denmark. This advanced training allows Kempston Controls to offer you, our customers, the best service we can whether that is advising you on a part and its application or aftersales training and support.

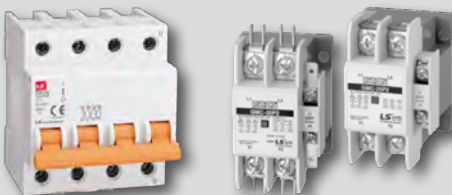
As Danfoss Advanced Partners we also have access to exclusive webinars and conferences. It's here that we can learn about exciting new products, range changes and more so we can keep you up-to-date with the latest product facts.



LS Industrial Systems

New Name of  LG Industrial Systems

LS Industrial Systems is emerging as a leader in the field of electric power solutions. Developing, producing and supplying a range of products related to power plants, power transmission & distribution and equipment for electricity users.



ecom - a P+F Brand

The Smart-Ex 02 and Ex-Handy 10: intrinsically safe phones for a broad variety of applications - from pure communication to Push-to-Talk or lone worker protection. Either model is the ideal companion for innovative Industry 4.0 applications in hazardous areas.

Ecom specialise in explosion proof products and we are excited to add them to our growing range of ATEX Products.

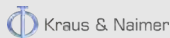
ecom
A PEPPERL+FUCHS BRAND



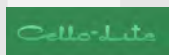
CONTROLS & FUSES

Whether you need a simple fuse or perhaps a contactor, emergency stop switch or an advanced motor controller, Kempston Controls has decades of experience in providing the perfect products for your specific application. Call +44 (0) 1933 411411 for further details.

Control & Automation



Fuses



SENSORS & PROCESS

Both internally and externally we have a class leading technical team that can help you or your customer with forthcoming projects. On-site support is only a phone call away, ask your local representative for more details and open the door to the latest technology, advice and help to specify the right products for your application.

Sensors



Process





Motor Protection and Control

AF 3-Pole Contactors

With their electronically controlled coils which offer a wealth of benefits when compared to more conventional alternatives, the AF Family has established itself as a modern industrial benchmark.



Reduce inventory costs
& 80% less power
consumption



Products are suitable
for use in all parts of the
world



Four AC/DC coils cover
all standard operating
voltages

Main Features

- Up to 560 kW - 400 V AC-3 IEC, 900 hp - 480 V UL/CSA, plus 2650 A - 690 V AC-1 IEC, 2700 A UL/CSA-general use
- 4 coils cover 24 V - 500 V AC and 20 V - 500 V DC
- Screw, push-in spring and ring terminal connectivity
- Built-in surge suppression, no additional protection required

For the full range of **ABB** products
head to our website:
www.kempstoncontrols.co.uk or call
on +44 (0) 1933 411411





“

I need more than products; I need a real partner. We need relationships and services today that will improve performance for the future.

Decisions Made Easier — with the Expertise of Emerson.

Emerson's fluid control and pneumatics offering applies industry expertise and clever solutions to your unique business challenges today and tomorrow. Our strengthened portfolio of brands—ASCO™, AVENTICS™, TESCOM™, and TopWorx™—deliver an extensive suite of leading fluid control and pneumatics. In an increasingly competitive landscape, smarter technologies and expert partners become more critical for your success. Find the products, solutions, and services that can help your business grow.

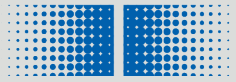
Turn to the fluid control and pneumatics experts who know your industry and applications. Get in touch with Kempston Controls, our Authorised Distributor or visit Emerson.com/en-us/automation/solenoids-pneumatics for further information on our solutions.

For the full range of Emerson products head to our website:
www.kempstoncontrols.co.uk or call on +44 (0) 1933 411411



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CONSIDER IT SOLVED™



Baumer

Undeterred Precision OM70 Laser Distance Sensors

Excellent measuring accuracy with high independency from the measuring object.

- Resolutions up to 0.7 μm , linearity deviations up to 0.06 %
- Measuring distances up to 1500 mm
- Selectable focus ranges for challenging surfaces
- Excellent immunity to ambient light



Increasing Productivity

Fast measurement rate
up to 2.5 kHz



Highly Precise

Measuring in the
submicrometer range



Simple installation

Compact metal housing,
fast parametrisation

More communicative. More compact. OptoTurn EAL580 Industrial Encoders

- Ethernet encoder, cutting edge Bus technology
- Extremely compact - best in class installation depth
- Maximum immunity against magnetic fields
- Industrial absolute encoder



Space Saving

47 mm installation
depth



Future Proof

Industry 4.0 &
IIoT ready



Reduced Downtime

Supports simple device
replacement



For the full range of Baumer products head to
our website: www.kempstoncontrols.co.uk or call
on +44 (0) 1933 411411



**Small but powerful –
for your Smart Factory**
**Non-contact
Safety Sensor SRF**

The SRF (Safety RFID) is a non-contact safety sensor that monitors moveable safety guards such as doors, flaps and hoods.

Compact: small in size, flexible in use

Smart: suitable for Industry 4.0 with its intelligent diagnostic system

Cost-saving: due to a four-wire unshielded connection cable from sensor to sensor

Safe: up to PL e – even in series connection with high defeat protection



Find out more about the full range from Bernstein online:
www.kempstoncontrols.co.uk or call our dedicated sales
team on +44 (0) 1933 411411



**KEMPSTON
CONTROLS**



EM100 and EM300 series

- Class 1 (Class B) 3-phase bidirectional energy analyser
- 45A & 100A single phase direct connection
- 65A three phase direct connection or CT connection
- Backlit LCD display; 3x8-digit with integrated touch key-pad
- Pulse output, Modbus RTU or M-bus port
- Digital input for dual tariff management
- MID Certified

For more Carlo Gavazzi products see
www.kempstoncontrols.co.uk

New to Kempston Controls!



2-Pole AC Contactors The GMC Range

Top Features

- Two normally open main contacts
- Screw clamp or fast-on connections
- Small and light design suitable for use in air conditioners, heaters, refrigerators, etc.
- Screw mountable
- NO auxiliary contact
- AC control voltage

For the full range from **LS Industrial Systems** contact us on +44 (0) 1933 411411 or visit our website: www.kempstoncontrols.co.uk

LS Industrial Systems

New Name of  **LG Industrial Systems**

LS Industrial Systems develops, produces and supplies a range of products related to power plants, power transmission & distribution and equipment for electricity users.

Operate safely and reduce costs | VLT® Drives MCB 150/151 Safety Options & VLT® Sensorless Safety MCB 159

Improving on the previous MCB 150/151 VLT® Drives the new MCB 159 option now enables the user to adjust the reaction time and supports the operation of sensorless functional safety.

Danfoss

Key Benefits:



Reduced maintenance increasing system availability

By not using an encoder, which often have mechanical wear, it's possible to obtain a more reliable system.

Cost reduction

Thanks to integrated safety, less components (external encoders and sensors) are needed



Easy installation

Reduced effort - because no wiring is required outside the drive for speed feedback

Find out more about the **Danfoss VLT® Series** on our website:

www.kempstoncontrols.co.uk
or alternatively call us on
+44 (0) 1933 411411

VLT®
AutomationDrive



Delivering Mobility in Hazardous Areas

The Smart-Ex 02

The world's first intrinsically safe smartphone for Zone 1/21 and Div. 1 areas that meets the Google Android Enterprise Recommended (AER) validation.

Highlighted Features:

- Android 9 operating system
- Push to talk over 4G, LTE and WiFi
- 4G / LTE SIM unlocked
- IP68 dust and waterproof housing
- 3 GB RAM, 32 GB ROM
- Support for 128 GB microSD
- Rechargeable and replaceable 4400 mAh battery



RGC1A series: 1-phase switching solid state contactors up to 85 AAC

The RGC Series guarantees error free operation over a very large number of cycles. The RGC Series provides a slim single phase switching solid state contactor, at a mere 17.5mm width and is rated at 25AAC @ 40°C (104°F).

- Ratings up to 600VAC, 85AAC @ 40°C (104°F)
- Suitable for resistive and motor loads
- Integrated overvoltage protection
- UL listed with 100kArms short circuit current rating

For more Carlo Gavazzi products see www.kempstoncontrols.co.uk

ENTRELEC Terminal Blocks | SNK Series

The innovative range of terminal blocks from TE Connectivity are now available in PI-Spring, screw clamp and pluggable technologies. Certified for worldwide applications and severe environments.

Speed up your projects

Smarter connections

Up to 90% reduction in installation time

Better project ID

20% larger project marking area

Optimised logistics

50% less accessories

More compatibility with several blocks

Simplified selection

Intuitive, simplified catalogues.

Easy to install

Secured installation

Asymmetrical, zero retightening design

Faster mounting

Variety of screwless connections



Power Distribution Blocks | DBL

The compact and modular design of the TE Connectivity power distribution blocks allows easy installation combined with a greater flexibility of use.



Space saving

Panel space saving - Save up to 50% rail space

1500 V DC - Accommodates more requirements



Increased productivity

Reduced costs - Wiring, inventories, hardware and assembly

Quicker build - Reduce assembly time by 80%



Easy to install

3 configurations in 1 - Single / Multiple pole splitter or grouping

Flexible cover - Reversible with wiring data on top



Find out more about the full range of **ENTRELEC DBL Power Distribution Blocks** and the **ENTRELEC Terminal Blocks** from **TE Connectivity** on our website: www.kempstoncontrols.co.uk or alternatively call our dedicated sales team on +44 (0) 1933 411411 or email us at sales@kempstoncontrols.co.uk



AUTHORIZED DISTRIBUTOR

High Stability Pressure Transmitters

3100/3200 Series

Advanced Film Technology

Uniquely designed for improved performance under wide operating temperatures offering <1.5% Total Error Band (TEB).

Impressive Connectivity

With a multitude of electrical connectors and 17 pressure port options, the 3100/3200 series is ideal for any installation regardless of complexity.

Reliable Against Moisture

In addition to meeting IP65 and IP67, the 3100/3200 series meets IPX9K high-pressure washdowns as well.

Extensive Pretesting

Extensively tested, the 3100/3200 series is an ideal fit for any application. Tests include, but are not limited to; shock, vibration, temperature, accuracy, salt spray and stability.



Single-Point Level Switch | LS-3 Series

The durable construction of these reed switch designs ensures long, trouble-free service.

- Engineered plastics
- Ideal for shallow tanks
- Low cost/high volume use



Turbine Flow Sensor | FT-110 Series

Gems™ hall effect turbine flow rate sensor is ideal for OEM applications involving low flow liquid monitoring.

- Flow rates from 0.5 to 30 L/Min
- Accuracy $\pm 3\%$ of reading
- Mounts in any orientation



Honeywell

Thermal Solutions – From Honeywell

The Thermal Solutions (HTS) Family of Products includes Kromschröder, Eclipse, Maxon and Combustion Safety (ICT) collaborating to address some of the world's most critical challenges around safety, efficiency and productivity.

Honeywell **KromSchröder**

Responsible for manufacturing a comprehensive range of gas combustion and control devices for the heating and process control markets.



Honeywell **Maxon**

Pioneering new technologies and combustion and emission control solutions.

Honeywell **Eclipse**

A comprehensive range of burners, recuperators, spark electrodes, heat exchangers and fully engineered combustion systems.



Honeywell **Combustion Safety | ICT**

Product solutions for HVAC and burner and boiler control systems created to help streamline end-user interaction.



**krom
schröder**

MAXON

ECLIPSE

Find out more about the full range from Honeywell online: www.kempstoncontrols.co.uk or call our dedicated sales team on +44 (0) 1933 411411

The Panel Essentials Range

Panel Mounted | LED Link Lights

Professional, Powerful, Versatile

Unswitched P/N: **KPE4WLEDPLL/US**

Switched P/N: **KPE4WLEDPLL/S**

Features:

- Powerful 4W LED (520lm +/- 10%)
- IP20 protection
- 50,000 hrs life, energy saving Class A LEDs
- Cool white 6000K
- Temperature range -25°C to +50°C
- CE, UL, TUV approved.
- Complete wth clear diffuser
- Easy installation
- Added accessories available

Each Kit Contains:

- Link light
- 1m Power lead
- 25cm Connector cable
- Connector piece
- 2 x Mounting magnets
- 2 x Clip kit for standard mounting

CFK18 | Fuse Kit

The Ideal Kit for Contractors

Now Offering Customisable Labels

Each Kit Contains 180 Fuses:

30 Fuses for standard 13A Plugs

60 Fast-Acting Glass 5x20mm Fuses

90 Slow Blow Glass 5x20mm Fuses

Fuse Ratings:

BS1362:

3A, 5A & 13A

Fast Acting Glass Fuses:

500mA, 1A, 2A, 2.5A, 3.15A & 5A

Slow Blow Glass Fuses:

1A, 1.25A, 1.6A, 2A, 2.5A, 3.15A, 5A, 6.3A & 10A

Perfect
Kit for
Contractors



Counter Top Display

Plugtop Fuses

3A, 5A, 10A, 13A & Mixed Fuses in handy packs of 4 & 10.

Containing 100 packs of Fuses and 1 Stand
10 packs of each

Compliant with BS1362

Part number: **CTD100**



Point of Sale Display

Plugtop Fuses

12 Packs of 10 Mixed Fuses

Contains:

1 Clip strip

12 blister packs

Compliant with BS1362

Part number: **BPP12**

100 Pack | Plugtop Fuses

Ideal for keeping big jobs supplied

Panel Essentials KPE Plugtop Fuses are also available in handy boxes of 100!

Available in 1A, 2A, 3A, 5A, 7A, 10A, 13A.

FS1ACYA-B

FS7ACYA-B

FS2ACYA-B

FS10ACYA-B

FS3ACYA-B

FS13ACYA-B

FS5ACYA-B

Also available in other pack sizes



The Classic

Copper Tubular Cable Lugs

Tubular cable lugs from Klauke are made from high-quality tin-plated electrolytic copper and have been part of their standard range since 1960.

Klauke®



Top Features

- Suitable for all conductor classes to DIN EN 60228
- Ideal for all cables types whether they are compacted round or sector-shaped conductors
- High-quality materials which increases safety and load capacity for optimum conductivity.
- Manufactured in-house by Klauke.

Punching above its weight

The fast one: LS 50 Flex

Greenlee punching tools are quick. Whether you're punching through steel straight on, or in a confined area using the swivelling head the LS 50 Flex is perfect.

Combined with the Speed Punch, the LS 50 becomes one of the quickest and most-efficient punching systems in the Greenlee range.

Top Features

- Recharged and ready to go in 22 minutes
- Ergonomic design with a balanced centre of gravity
- 360° rotatable head
- Can be combined with the speed punch system
- LED for illuminating your work area
- Lightweight - 2.1kg
- Optional battery systems: Bosch or Makita
- Energy saving with motor cut-out after operation

Suitable for:

- Rectangular and special shaped punches up to 104.8x104.8mm
- Round punch up to 144.1 mm



To find out more about the full range of Klauke lugs and Greenlee tools visit our website: www.kempstoncontrols.co.uk or call our dedicated sales team on: +44 (0) 1933 411411

Klauke®





Temperature & Humidity EasyLog EL-USB-2 Data Logger

A battery powered standalone temperature & humidity data logger that is capable of monitoring and storing more than 16,000 readings over a -35 to +80°C temperature and 0 to 100% humidity range.



-35 to +80°C
temperature range



Long lasting 3 year
battery life



0 to 100% humidity
measurement range

Advanced Data Logging EasyLog GFX

Bringing an advanced feature set to the monitoring of temperature and humidity.

Parameters in the GFX range:

Temperature | Temp/RH | Thermocouple | Thermistor

Features:

- Easy configuration - EasyLog USB Software
- Increased memory - 250,000 readings per channel
- 0.1 digit resolution
- LED and audible alarms
- Real-time trend graphs and data summaries
- On-screen menu increases productivity in the field

Find out more about the full range of **Data Loggers** on our website: www.kempstoncontrols.co.uk or call our dedicated sales team on: +44 (0) 1933 411411





Low Voltage AC Drives Commander C

The new Commander C series from Control Techniques is built on years of experience to meet the advanced requirements of a wide range of applications.

Features:

- Straight forward installation and commissioning
- Set 4 parameters to get your drive started
- Up to 180% overload for high-torque applications
- Equipped with the latest energy saving features
- Dual Safe Torque Off (STO)
- Plug-in options for advanced control
- On board PLC



Whatever your application, Commander C is the perfect solution across industry.

Applicable Fields:

- Pumping, Ventilating and Compressing
- Conveyor Systems
- Lifting, Hoisting & Winching
- Access Control
- Processing (Mixers, Crushers, Agitators, Centrifuges and Extruders)

The Commander Series now comes with a FREE 5 Year Warranty as Standard.

Nidec
All for dreams



Find out more about the Commander C Series on our website: www.kempstoncontrols.co.uk or alternatively call us on +44 (0) 1933 411411

CONTROLTM
TECHNIQUES

Up to four times the
range of a standard
sensor



Exceptional Sensing E2E NEXT Proximity Sensors

With greater sensing distances in smaller form factors, oil-resistant sheathing, and IO-Link, these sensors are ideal for flexible applications in any environment.

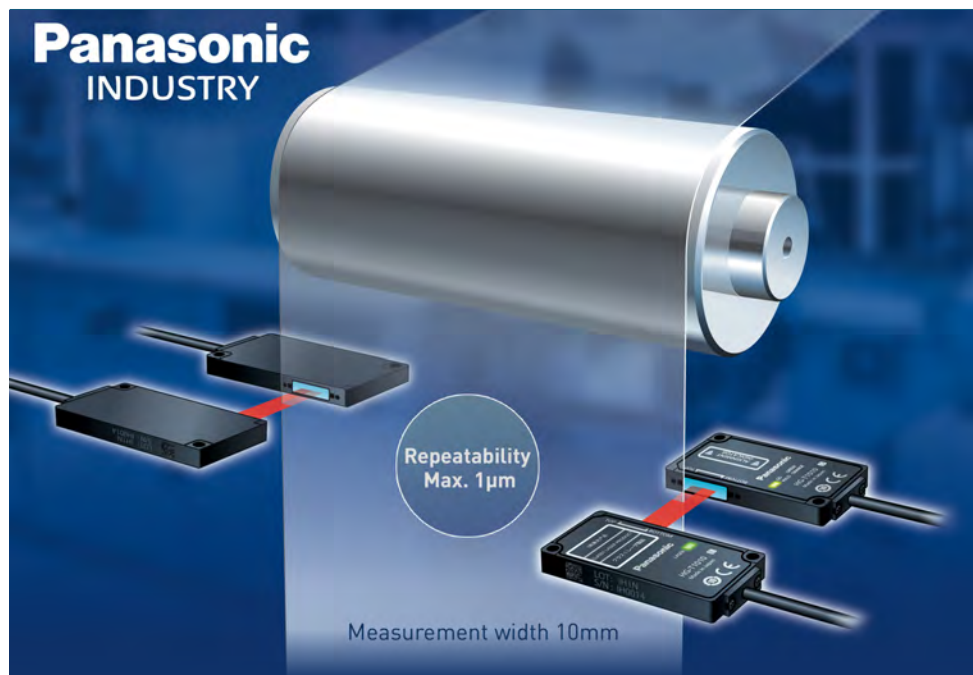
- World's longest sensing distances* allowing a more spacious design with less risk of contact
- Thermal Distance Control 2 and PROX3 hybrid circuitry enabling stable long-distance sensing capabilities
- Equipped with IO-Link offering real time updates on the condition of the sensor
- 2,512 models in a variety of physical sizes and sensing ranges catering to any requirement

* Based on an investigation by Omron. December 2018



OMRON

Panasonic
INDUSTRY



Highly precise thru-beam sensors

The HG-T Series from Panasonic

Capable of measuring with μm precision, the HG-T series works like optical micrometers and are shipped with software which is capable of configuring and setting up to 15 sensors with ease.



Flexible mounting

Supplied with two different sensor heads with the slim version being 10mm narrower than the standard.

Electric features

Equipped with a current voltage output by default – the output can be selected according to your requirements.



High-Quality Performance

Performance you can trust thanks to functions such as filters, edge detection and light intensity checks.

Easy Installation

The master-slave system combined with the easy-to-use software makes it easy to connect up to 15 sensors in series.



Functional Safety from the Inventor of the Proximity Sensor

New fail-safe SIL2 / PLd inductive sensors from Pepperl+Fuchs, with high safety values for minimised testing requirements.



IO-Link enabled sensors
for extra functionality



Reduction Factor 1
suitable for the food and
beverage sectors



E1 Certified for high EMC
and harsh environments

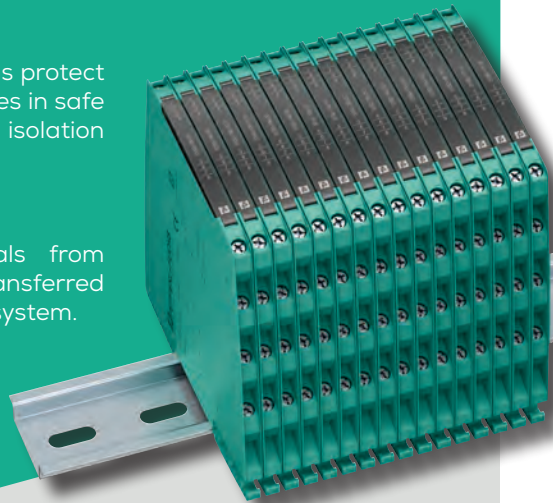
Signal Conditioners

Signal conditioners from Pepperl+Fuchs protect the signal transfer between field devices in safe areas and control systems by galvanic isolation of the loop.

Pepperl+Fuchs offers 2 systems:

K-System - for when both signals from hazardous areas and safe areas are transferred between field devices and the control system.

The SC-system - offers galvanic isolation in an extremely compact housing and is optimised for application requirements in safe areas.



PEPPERL+FUCHS



Revolutionary Safety Handle

The **P-KUBE Krome** combines the functionality and characteristics of your typical safety handle with an **ergonomic rounded grip** and **unique customisable LED** notification functionality.

Features at a Glance:

- Available in satin chrome or illuminated white finish
- Illuminated control button built into handle (optional)
- Tamper-proof design
- RFID - Anti-bypass coding
- Compatible with NS and NG series locking switches
- Multiple colour options
- Self-contained design



Position Switches

The FD and FR range of position switches from Pizzato are designed to be used in a wide variety of sectors.

Main Features:

- IP67 Rated
- 90° rotatable head
- Twin bridge and double interruption contact units
- Adjustable levers in 10° intervals
- Available in a multitude of configurations
- Ideal for any environment.



Find out more about the **P-Kube Krome** and the **FD and FR Position Switches** from **Pizzato** on our website www.kempstoncontrols.co.uk or alternatively call our dedicated sales team on +44 (0) 1933 411411 or email us at sales@kempstoncontrols.co.uk

Easy, Compact and Rugged GRF18S | Level Sensor

SICK

Sensor Intelligence.

A compact level switch which works using the optical principle. As a red light is transmitted by the sender LED it is then reflected inside the prism and redirected back to the receiver diode.



Bar Raising

Process temperature up to 55°C, process pressure up to 16 bar



Space Saving

Compact design is ideal for difficult installation situations



Rugged Design

IP67 and IP69 enclosure ratings



Long-Lasting

Stainless steel housing & no need to recalibrate.

PBS | Universal Pressure Switch

- Electronic display
- Suitable for liquids and gases
- Stainless steel membrane
- Integrated process connections
- Pressure values indicated on display. Output states are indicated separately via wide-angle LEDs.
- Unit of pressure value in display can be switched

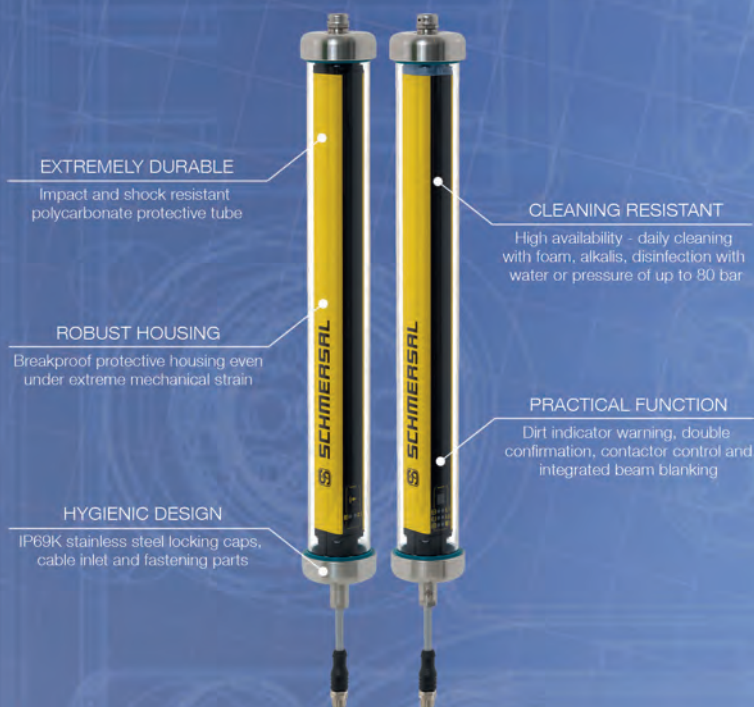


PBT | Pressure Transmitter

- No mechanical wear and maintenance-free
- M12 Electrical connection
- Hermetically sealed membrane
- A large variety of process connections

Find out more about the full range of [SICK Products](http://www.kempstoncontrols.co.uk) on our website www.kempstoncontrols.co.uk or alternatively call: +44 (0) 1933 411411 or email us at sales@kempstoncontrols.co.uk for more information.





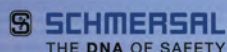
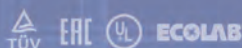
SLC/SLG 440 IP69K:

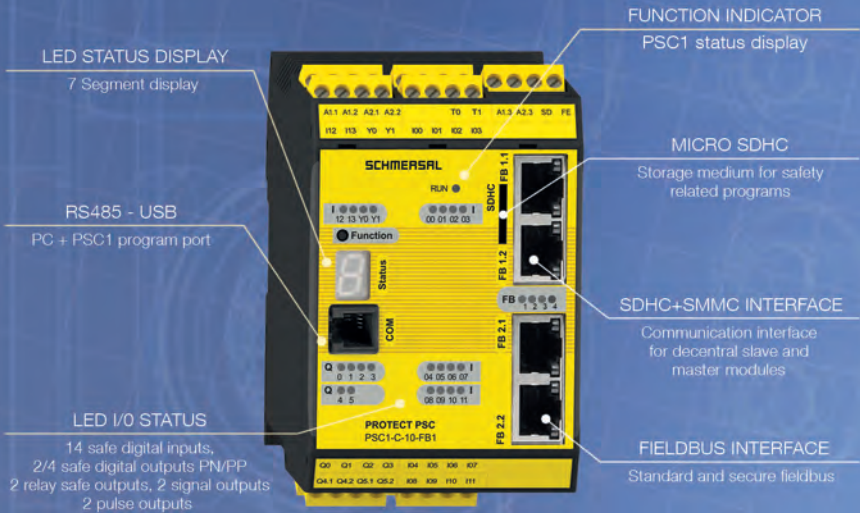
Hygienic, extremely robust,
perfect for the food industry

The Schmersal Group have developed a new range of safety light grids and curtains for use in hygiene-sensitive areas such as pharmaceutical, food, milk and meat processing.

Thanks to its sophisticated design, the SLC/SLG 440 achieves the protection rating IP69K and is protected against ingress of water during close-range high-pressure and high-temperature spray downs.

This means that the seals on this active opto-electronic protective device (AOPD) meet very strict requirements and are able to withstand frequent cleaning with water, alkali solutions, foam, hot steam or high-pressure jets, making it the ideal choice for your hygiene-sensitive area.



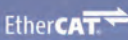


PROTECT PSC1: Programmable modular safety controller

Schmersal is not only a manufacturer of safety components but also a system supplier.

The safety control system PSC1 consists of freely programmable compact safety controllers with I/O extension modules for signal processing of emergency stop switches, guard door switches, light grids and additional mechanical and electronic safety switchgear. Additionally there is the possibility via numerous functions to monitor axis. Using the universal communications interface a connection can be established to all the standard field bus systems.

With its combination of properties, the new safety controller from Schmersal is unparalleled, as the PROTECT PSC1 has unique features that clearly set this control system apart from other solutions on the market.



SCHMERSAL
THE DNA OF SAFETY



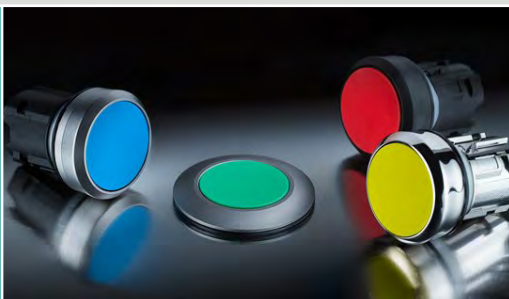
SIRIUS Control

SIRIUS Range of Push Buttons

SIRIUS ACT is a modular system range consisting of push buttons and indicator lights for front plate mounting and rear-mounted electrical modules. Flexible and feature packed, the SIRIUS ACT can be configured to any end-user requirement.

Extensive Selection

- Push buttons
- Illuminated push buttons
- Mushroom push buttons
- Emergency Stop push buttons
- Twin push buttons
- Sensor switches
- Push buttons with extended stroke



Performance in Action

Modern Design

Elegant product design and built using high-quality materials.

Easy to Use

One-handed installation and online configuration - fast and intuitive from start to finish

Extremely Robust

Durable and reliable IP69K rated - ideal for any industrial application

Flexible and Future-Proof

Flexible connections via AS-Interface, IO-Link or Profinet



The Advanced Panel Meter (APM)

The Trumeter APM range blends the accuracy of modern digital panel meters with all the visual advantages of traditional moving coil meters, giving you the precision you demand with accurate readings at all times.



APM Power Meter | Coming Soon



The APM Power Meter is a digital panel meter for single-phase, split-phase and three-phase applications. This user-programmable power meter offers a dynamic three-colour display and Modbus connectivity in a compact size.



System
Operational



System
Optimal



System
Critical

Top Features:

- Single, split and 3 phase monitoring
- Programmable scale, setpoints and alarms
- Two digital and one analogue output
- Unique instant recognition display
- Front navigation buttons
- Colour changing backlight
- Modbus RTU communication
- Less than 75mm deep





Ultra-Low Emissions. Will you be Leading the Charge When it Comes to Electric Vehicle Supply Networks?

Taken from: news.kempstoncontrols.co.uk/electric-vehicles

The UK Government's Road to Zero strategy is demanding that by 2050 almost every new car be zero-emission. With a huge expansion of charge-points, 1 every 20 miles by 2020, a fantastic opportunity exists for those involved in the innovation, build, installation and maintenance of this network and for the companies who supply them.

Electric vehicles batteries are rising in capacity, meaning that existing charging methods will require improvements. Fast-charging stations use a complicated control system with dangerous currents. Fast-charging a vehicle battery in 10 minutes requires around 400 kW of power, several cars need approximately 1MW and a facility such as this would need to be connected to a 33kV grid.



Electric vehicles charged at home use an AC supply and a Mode 2 cable, a simple and safe process, however, to make this easier for residents who don't have access to local parking and charging facilities, options will need to be explored.

Kempston Controls is your perfect back-seat driver, we stock an impressive range of products for all potential electric vehicle charging applications and installations.



EN ISO 14119 – Interlock and Machine Guarding Requirements

Taken from: news.kempstoncontrols.co.uk/iso-14119

The EN ISO 14119 standard contains valuable information describing the selection and use of interlocks and devices for monitoring safety doors, covers and other movable guards. These guard interlocks should only allow access to processing equipment once the risk of injury has been completely removed.

Machine designers now have access to a much wider range of interlocking guard technologies and ISO 14119 examines the operating principles of many recent innovations in interlock devices, such as RFID and electromagnetic technology.



ISO 14119 also explores the issue of fault-masking which is when there is an unintended resetting of faults even when using a safety control system. For example – if a machine stops due to a jammed product and the operator accesses the machine by opening a safety door, but then the machine restarts unexpectedly when the trapped part is removed because there was a fault with the door switch interlock being masked by the production malfunction.

ISO 14119 comprehensively examines the interlocking and machine guarding options available to installation and design engineers, ensuring that their processes, equipment and more importantly the users of the equipment are fully protected from issues such as fault-masking and interlock bypassing.

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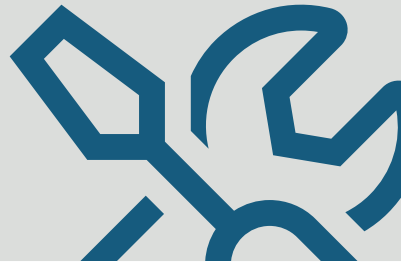


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