FOOD & BEVERAGE MANUFACTURING

Technological advancements, consumer behaviour and regulatory challenges are changing the landscape of the food & beverage manufacturing industry.

RS are here to help you navigate the exciting opportunities and keep your processes running smoothly.

Contents

Solutions for the food & beverage industry.

The challenges facing the food & beverage industry are varied and complex. Failure to comply with national safety and quality standards can be time-consuming, expensive, and can result in accidents or contamination. Demands for shorter production times put increasing pressure on a need for reliable and continuous operations. Extreme temperatures and corrosive environments mean you need products which can handle extreme conditions. And this is before we even get to the latest techonological and consumer trends.

From sensors to personal protective clothing, from food safe cleaners to thermal imagers, read on to discover specialist product solutions and components ideal for food and drink production.

And with the challenges you're facing in the industry we know you have better things to do than worry about your order being safe and compliant. No matter where you are, we ensure your products get delivered as efficiently and carefully as possible.

Leave the how to us.

Join the conversation

Terms & Conditions

sg.rs-online.com

Committed to you.

We understand the important role our solutions and products play in helping you achieve your goals, that's why your dedicated account manager is here to support throughout your journey with RS.

Your one-stop shop.

We are a single-source supply partner. Our convenient one-stop shop approach with our large product range, product plus outsourcing service & competitive pricing ensures that you get the best value without having to shop around.

Flexible delivery.

Free* delivery available and scheduled deliveries or plan ahead with advance orders.

Easy Ordering

Order online, by phone, by fax, or on your mobile phone via our easy-touse website.

Visit our online Food & Beverage Industry Hub

- Latest Products
- Industry Resources
- Ideas and Advice

sg.rs-online.com/food

Stainless Steel Photoelectric sensors

M18 photoelectric sensors with a high grade stainless steel housing sealed to IP69K. Ideal for wash-down applications in the Food & Beverage industry, and approved
for use with Ecolab and Diversey industrial cleaners.

Search 'E3FC' at RS Online

Radar Guided Level Probes

Guided radar level probes providing accurate and consistent level measurement, suitable for oil or water based fluids. Stainless steel probe, with options for
process temperatures up to 100°C and hygienic versions up to 150°C.

Search for 'Sick Radar' at RS Online

Food Environment Clothing

We stock an extensive range of food production environment suitable clothing.
This includes gloves, aprons, coats, tabards and overshoes and hair protection,
from leading brands such as Ansell, 3M and many more.

Search for 'Food Clothing' at RS Online

Metal Content Cable Ties

Metal Content cable ties specifically designed for use in food industries.
A special metallic pigment throughout the tie enables even small `cut-off' sections
of the tie to be detected by standard metal-detecting equipment.
Available in a range of sizes and colours.

Search 'Metal Content Ties' at RS Online

The Linecard

This linecard helps as your guide to the key technologies and brands in our offer which are most relevant to the food and beverage manufacturing sector.

10	PERSONAL PROTECTION	Ansell, uvex, 3M, pal, 3M PELTOR, Kimberly-Clark PROFESSIONAL, 3M E-A-R, KIMTECH, Alpha Solway, RS PRO
13	TEST & MEASUREMENT	FLUKE, LASCAR electronics, FLIR, Tektronix, Megger, Druck, KEYSIGHT TECHNOLOGIES, HANNA instruments, testo, Mitutoyo, RS PRO
21	SITE SAFETY	ABB, COBA europe, MOFLASH SIGNALLING, Lubetech, ecospill, KAC, BRADY, detectortesters, Rubbermaid Commercial Products, 3M, RS PRO
27	FACILITIES CLEANING & MAINTENANCE	Kimberly-Clark PROFESSIONAL, Scott, Kleenex, KIMTECH, WYPALL, Vikan, Ambersil, Rubbermaid Commercial Products, ROCOL, ELECTROLUBE THE SOLUTIONS PEOPLE, RS PRO
31	CABLES & CONNECTORS	TE connectivity, DEUTSCH, HellermannTyton, LAPP, HARTING, igus, BELDEN, molex, legrand, bulgin, RS PRO
47	SENSORS	OMRON, SIEMENS, cynergy3 components, Telemecanique Sensors, SICK, Baumer, ABB, PEPPERL+FUCHS, ifm electronic, TURCK, RS PRO
57	ELECTRICAL, AUTOMATION & PROCESS CONTROL	Schneider Electric, SIEMENS, Life Is On CLIPSAL by Schneider Electric, OMRON, ebmpapst, PHOENIX CONTACT, ABB, EATON Powering Business Worldwide, Baumer, LASCAR electronics, SICK, PR electronics, RITTAL, Telemecanique, FANTECHTRADE, RS PRO
66	PLUMBING & PIPELINE	legris, Parker, burkert Fluid Control Systems, +GF+ GEORG FISCHER PIPING SYSTEMS, NiTo, RS PRO
68	PNEUMATICS, HYDRAULICS & POWER TRANSMISSION	SKF, FESTO, SMC, igus, legris, Parker, IMI NORGREN, CROUZET, Gates, EMERSON Asco, RS PRO
74	TOOLS & CONSUMABLES	TENGTOOLS, BAHCO, 3M, FACOM, Wera, STANLEY, DEWALT, KNIPEX, Weller, HAKKO, RS PRO

INGRESS PROTECTION (IP) RATINGS

The Ingress Protection (IP) rating system is an internationally recognized scale that relates to proven protection against environmental factors such as liquids and solids.

Ingress protection ratings can be identified by the letters IP, followed by two numbers. These numbers define the amount of protection a digital scale has against specified elements and its ability to resist foreign matter that could otherwise get inside the product and cause it to fail.

1st digit = Degree of protection against solid objects

No Protection	**0**
Protected against solid objects greater than 50mm.	**1**
Protected against solid objects greater than 12.5mm.	**2**
Protected against solid objects greater than 2.5mm.	**3**
Protected against solid objects greater than 1.0mm.	**4**
Protected against dust that could cause sufficient harm.	**5**
Protected against all dust.	**6**

2nd digit = Degree of protection against water

0	No Protection
1	Protected against drops of water.
2	Protected against drops of water at a 15 degree angle.
3	Protected against water spray at a 60 degree angle.
4	Protected against water spray splashing from any angle.
5	Protected against water jets from any angle.
6	Protected against powerful jets of water or heavy seas.
7	Protected against temporary immersion in water (30 minutes at 1M).
8	Protected against the effects of permanent immersion in water (up to 5M).
9K	Protected against close-range high pressure, high temperature spray downs (80 degC water at 80-100bar for 30sec x 4 angles.

Example:

IP **4** **4**

Protected against solid objects greater than 1.0mm.

Protected against water spray splashing from any angle.
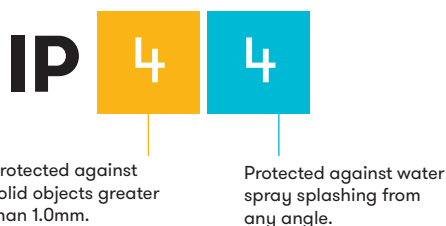
What is IP69K?

The IP69K rating provides protection against ingress of dust and high temperature, high pressure water – making products with this certification ideal for use in conditions where equipment must be carefully sanitized.

In the food processing industry, where hygiene and cleanliness is paramount, equipment must be able to withstand rigorous high pressure, high temperature wash-down procedures.

The IP69K rating is the highest protection available.

What are the advantages of IP69K?

In environments that require heavy washdown, such as in the food processing industry, the combination of water, chemicals, high pressures and temperatures can prove fatal for electronic circuits and instrumentation.

The IP69K rating offers complete assurance that the piece of equipment that has undergone that tests is both durable and resistant and conforms to the highest protection rating on the scale.

TELEMECANIQUE EXTENDED SENSING RANGE IP69K RATED

- TWICE nominal sensing distance
- FLUSH mount
- FAST switching frequency
- 2 & 3 wire controlled devices
- LED status display
- OPERATING temperature range: -25 → +70° C
- REVERSE polarity and short circuit protection (dc types only)

Telemecanique Sensors

444-3300	M30 X 1.5, PNP-NO 62MM LEN , 12 → 48 V DC SUPPLY VOLTAGE
444-3316	M30 X 1.5, PNP-NO 74MM LEN , 12 → 48 V DC SUPPLY VOLTAGE
444-3366	M30 X 1.5, NO 62MM LEN , 24 → 240 V AC/DC SUPPLY VOLTAGE
444-3388	M30 X 1.5, NO 73MM LEN , 24 → 240 V AC/DC SUPPLY VOLTAGE
444-3350	M18 X 1, NO M18 BARREL 73MM LEN , 24 → 240 V AC/DC SUPPLY VOLTAGE
444-3344	M18 X 1, NO 62MM LEN , 24 → 240 V AC/DC SUPPLY VOLTAGE
444-3338	M12 X 1, NO 62MM LEN , 24 → 240 V AC/DC SUPPLY VOLTAGE
444-3322	M12 X 1, NO 53MM LEN , 24 → 240 V AC/DC SUPPLY VOLTAGE
444-3265	M12 X 1, PNP-NO 53MM LEN , 12 → 48 V DC SUPPLY VOLTAGE
444-3271	M12 X 1, PNP-NO 62MM LEN , 12 → 48 V DC SUPPLY VOLTAGE
444-3287	M18 X 1, PNP-NO 62MM LEN , 12 → 48 V DC SUPPLY VOLTAGE
444-3293	M18 X 1, PNP-NO 74MM LEN , 12 → 48 V DC SUPPLY VOLTAGE

IP69K 304 STAINLESS STEEL WALL BOXES

- Material: Stainless steel
- IP69K rating
- Lockable
- Double lipped edge to ensure higher strength and ease of installation
- Easy to use, including removal of the door

RS PRO

758-6996	300 X 300 X 200MM
758-7006	400 X 300 X 200MM
758-7015	400 X 500 X 150MM

BNS 33S MAGNETIC SAFETY SWITCH, STAINLESS STEEL IP69K RATED

- Control category up to 4 to EN954-1 in combination with a safety monitoring module
- IP69K protection, cable connection suitable for food industry (LiYY)
- Coded switch, actuation only possible with BPS33S actuating magnet
- Dimensions: L7.5 x W27 x H88 mm

SCHMERSAL

617-5150	100 V AC/DC	BNS 33S-12Z

NDR SERIES EMERGENCY STOP PUSH BUTTONS, IP69K RATED

- This range of Head Emergency Buttons are used in control cabinets, control panels, in elevator construction, on conveyor or transport plants.
- After the manual actuation, the components initiate or switch off work processes and functional processes.
- The range of NDR Series Emergency Stop Push Buttons are available in the form of pushbuttons, joystick switches or key-operated switches.
- They are available in a single, dual and tri state contact blocks.
- There is an option to have N/O (normally open) and N/C (normally closed) contact versions to satisfy every requirement.
- Red 50mm Round Head Emergency Button.
- Key Reset.

SCHMERSAL

742-0763	SEPARATE SPRING ELEMENT, BLACK BELLOWS	NDRR50GR/RT
742-0760	SEPARATE SPRING ELEMENT, WHITE BELLOWS	NDRR50RT
742-0757	INTEGRATED SNAP-ACTION MECHANISM, WHITE BELLOWS	NDRZ50RT

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INDUSTRIAL IOT

TAKING THE IOT CONCEPT TO THE FACTORY FLOOR

In the consumer space the concept of 'The Internet of Things' is well established. Cloud connected devices and services, such as Google Nest, are allowing us to create a connected home with thermostats, cameras and even doorbells all connected via the Internet to smart apps and cloud services.

So, the concept is proven, the technology exists, and the benefits are clear: convenient, mobile or remote access to devices or data reliably and securely helping you to make decisions faster.

You may have already started an Industrial Internet of Things project, or you may have thought I know I need to do something - but where do I start?

Within the following pages you'll find products which can help unlock productivity data, products which can add intelligence to existing machinery making them IIoT ready and products which enable to you to monitor conditions or make measurements and share these easily with colleagues or for reference.

One thing is clear. Industrial IoT and the concept of Industry 4.0 is here to stay, and you need to be considering how – not if – you will start using it today.

6 STEPS ON THE IIOT JOURNEY

Based on insight from manufacturers and IIoT pioneers we've listed six steps to consider when in pursuit of the connected factory.

1 CAREFULLY CONSIDER WHAT YOU ARE TRYING TO ACHIEVE

Be clear on what the challenge is you wish to use IIoT to solve. If it's just one or two elements or conditions which you want to monitor or track, focus on those. It will reduce complexity and cost allowing you to prove the benefits faster.

2 START SMALL

Don't try and create a complete IIoT infrastructure in one hit, even if you are considering purchasing an off the shelf software solution. Prove it, build on that knowledge, and demonstrate the value.

3 GET THE BUY-IN FROM IT

If this could be a potential barrier don't try and go around the IT team, be clear on your objectives and work with them. If they have concerns, you can start with closed networks or cellular networks (3/4G) which create physical isolation from the business's IT infrastructure for which the IT team are responsible.

### 4 OPERATIONAL EQUIPMENT EFFECTIVENESS (OEE)

If your primary objective is improving this then you may wish to consider a combination of tapping into existing data – trapped in PLCs or other parts of the control system – and connected T&M which can help improve predictive maintenance, reduce unplanned downtime and speed up the diagnostics process. You may also need to add additional sensors which can provide data on conditions – for example motor vibration – which are not know to the control system.

5 EXPOSING PRODUCTIVITY DATA

If your main objective is accessing production data so you can better understand how your process is performing, unlocking existing data should be your first step. Virtually all the key attributes – speed, output, process variables, etc – are available within the process control system. In many cases these can be retrospectively released via protocol monitors completely transparently, without the control system being compromised

6 START ON-PREMISE BEFORE THINKING ABOUT THE CLOUD

This approach has multiple benefits. Firstly, it can allay security concerns that your IT team might have. It can also simplify the solution, while not preventing the data from being 'cloud ready' in the future. Our experts suggest that in many cases the information will only be used or accessed on site so the benefits of a cloud-based solution might be negligible.
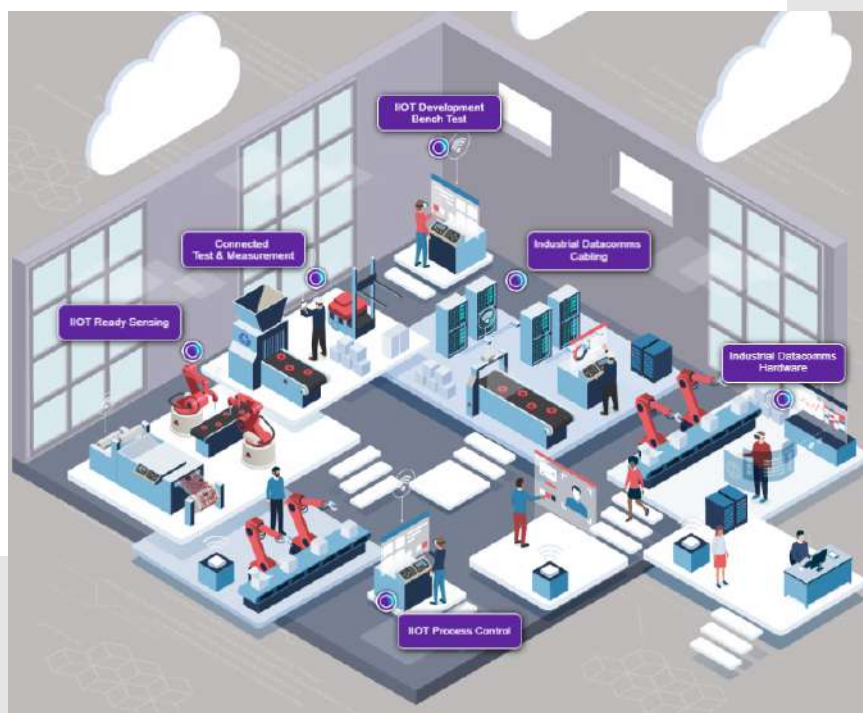
What is IOT, IIOT & Industry 4.0?

In short, IoT is a broad term used to refer to all devices which are connected to the internet beyond the familiar mix of PCs, laptops, phones and tablets.

The Industrial Internet of Things simply put, IIoT takes the concept of networking devices and connecting them to the internet to share data – locally or remotely – in factories, industrial processes and industrial buildings. Sensors collect the information, which is consolidated via a gateway to the local network, then onwards through an edge controller to the internet or the cloud – data servers within large data centres.

Industry 4.0 is when components communicate independently with the production system and, if necessary, arrange for repairs themselves or reorder materials. It's when people, machines and industrial processes network intelligently.
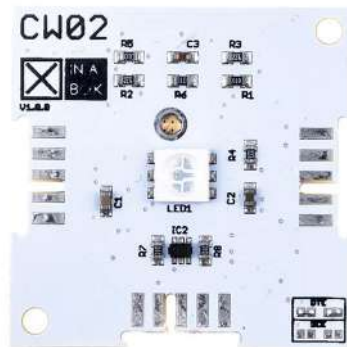
What are the advantages of IOT?

A few examples of how the manufacturing industry is using IIoT:

- **Optimising the manufacturing line:**
  Industrial IoT sensors enable continuous monitoring of the production line from start to finished product. This enables operators to continuously fine-tune the manufacturing process, saving both time and money
- **Inventory and supply chain management:**
  manufacturing stands or falls on the supply of raw materials and components. RFID (radio frequency identification) tags and similar technologies allow components and supplies to be tracked continuously, in real-time, from location to location, providing continuous monitoring of inventory and compensatory adjustments
- **Packaging assessment:**
  Industrial IoT sensors allow manufacturers to monitor the condition of packaging during transit and storage and even assess how customers typically interact with it, enabling improvements to design
- **Real-time manufacturing data:**
  IIoT devices can supply real-time operational data to suppliers, enabling responsive adjustments and also allowing the remote management of factory units

XINABOX IOT STARTER KIT

- Everything needed to build an IoT smart (edge) device, that collects environmental data, and to which an actuator can be attached for automation projects.
- Control an electric gate, garage door, or fan, and connect to IoT dashboards to create alerts and control algorithms.
- View sensor data, IoT messages and diagnostics locally on the mini-OLED display.
- In the box: an xChip sensor for temperature, humidity and pressure, a Wi-Fi and BLE Core xChip (ESP-WROOM-32), mini-OLED display, a solid state relay to switch low voltage appliances, connectors, a programming interface plus a RasPi bridge.

190-6041   XK19

IO-LINK SMART SENSOR

- Temperature and Humidity Recorder
- Combines three functions in one: sensor, interface and transmitter.
- The most recent standards of microtechnology and microsystems technology (sub areas of sensor technology and measurement technology) used in intelligent sensors of small sizes, are the basis for our CSS 014.

WIRELESS HARMONY XB5R SERIES RECIEVERS

- Wireless and batteryless package, containing a push-button, set of caps and receiver.
- Reduction of wiring allows for a quick and easy installation.
- Flexible due to its mobility, giving greater control to operators. Can be used to remotely control machines up to 25 m away.

739-8060	10 COLORED CAPS, PLASTIC, 24...240 V AC/DC	XB5RFA02
739-8064	10 COLORED CAPS, METAL, 24...240 V AC/DC	XB4RFA02
739-8067	6 COLORED CAPS, METAL, 24 V DC	XB4RFB01

189-0174   M12 CONNECTOR, 18 → 30 V DC   01411.2-00

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FOOD & BEVERAGE INDUSTRY
# PERSONAL PROTECTION

PPE, protective clothing & footwear from the brands you trust to keep you safe.

Personal Protection Range Highlights

Browse and shop the entire range of personal protection products online at **sg.rs-online.com**.

DISPOSABLE HAIR NET FOR FOOD INDUSTRY

- Blue nylon lightweight net which can be used alone or together with other headwear
- For use in food manufacturing, pharmaceuticals, electronics and in many other industrial applications

pal
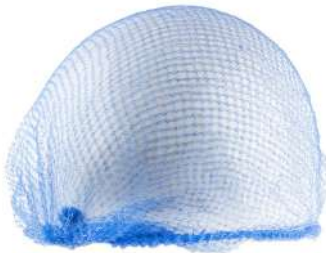
| 215-5095 | ONE SIZE (PACK OF 100) | T21220 |

E-A-R SOFT DISPOSABLE EAR PLUGS

- Comfortable Fit
- High Visibility
- Excellent Noise Reduction

3M E-A-R

| 358-4141 | 36DB, (1 BOX OF 250) | ES-01-001 |

CHEMMASTER APRON

- Green, reusable, chemical resistant apron
- 91cm long
- Protection against chemical splashes
- PVC-coated nylon material
- Resistant to acids, alkalis, oils and spirits

Alpha Solway

| 419-653 | 36"X24" | CMA 36 X 24 |
| 419-669 | 42"X36" | CMA 42 X 36 |

SCIENCE A7 LAB COAT

- With a cloth-like feel and a reduced risk of heat stress, Kimtech™ A7 P+ lab coats ensure contamination control during extensive periods of use.
- The breathable coat material includes high levels of particle and bacterial protection (with filtration efficiency of 99%).

KIMTECH

767-2902	MEDIUM	96710
767-2911	LARGE	96720
767-2914	X-LARGE	96730

FACOM SLS HEIGHT SAFE TOOL CARABINERS

- Stainless steel construction with excellent corrosion resistance
- Quick and easy to attach or detach tools and other equipment
- Perfect for working at height to reduce injury and damage or loss of tools
- Available in a range of sizes to accommodate numerous tasks
- Non-lock snap design for easy access

FACOM

| 910-3350 | 60MM | MOUSQ6X60SLS |

WHITE OVER SHOE COVER FOR USE IN FOOD

- Elasticated ankle
- PVC Sole
- Liquid splash and dust barrier properties (Type 5/6)

Kimberly-Clark PROFESSIONAL

| 756-4526 | M TO L (PACK OF 10) | 98710 |
| 756-4520 | XL TO XXL (PACK OF 10) | 98720 |

Browse thousands more products online **sg.rs-online.com/food**

HI-VIS CONTRAST BOMBER JACKET

- High visibility
- Weatherproof
- Studded Storm flap
- Zipped
- Detachable hood, sleeves & fur lining
- Fur lines knitted cuffs
- Reflective tape marking
- Waistband
- Taped seams
- Phone pocket
- Versatile (can be worn 3 different ways)

918-5983	YELLOW/NAVY BOMBER, L
918-5992	YELLOW/NAVY BOMBER, XL
918-6005	ORANGE/NAVY BOMBER JACKET, M
918-6009	ORANGE/NAVY BOMBER JACKET, L
918-6018	ORANGE/NAVY BOMBER JACKET, XL
918-6011	ORANGE/NAVY BOMBER JACKET, XXL

HI-VIS WARSAW EXECUTIVE VEST WAISTCOAT

- Warsaw executive vest waistcoat
- High visibility
- Reflective tape marking – increased visibility
- Contrast panels for dirt protection

141-8177	ORANGE S
141-8178	ORANGE M
141-8179	ORANGE L
1418183	ORANGE XL
1418292	ORANGE XXL
1418168	YELLOW S
141-8169	YELLOW M
1418170	YELLOW L
141-8174	YELLOW XL
141-8176	YELLOW XXL

AIR TECH BUMP CAP

- Cooling mesh fabric for increased breathability
- Shock absorption provided by the Inner ABS (acrylonitrile, butadiene and styrene) shell and soft pad
- Reflective piping for increased visibility
- CE certified that conforms with health, safety, and environmental protection standards
- Mid-length peak makes this bump cap suitable for all uses

| 171-6850 | ADJUSTABLE, NAVY |

LED BEANIE HAT

- Warm and comfortable acrylic beanie hat
- Features a removable LED front light for superior visibility in low light conditions.
- Rechargeable LED can be charged in a USB port.

| 171-6854 | NAVY |
| 171-6853 | ORANGE |

BLACK PU PALM COATED REUSABLE WORK GLOVE

- EN388 Abrasion Resistance Level 4/ Tear Resistance Level 4/ Puncture Resistance Level 1
- This RS PRO work glove offers a palm-dipped design with a breathable seamless liner for increased dexterity and ventilation, especially when handling small or fine objects
- Re-useable and washable
- Offering intermediate level protection, these RS PRO gloves are ideal for working with medium-duty applications like assembly, cutting, glass handling, sheet metal handling and maintenance

| 184-6011 | SIZE 10 |

HEAVY DUTY KNEE PADS

- Lightweight
- Waterproof coating
- Heavy-duty durable plastic cap allows the wearer to swivel and slide with little resistance
- Two strong nylon, fully adjustable straps
- Straps fasten with velcro
- Straps are partially elasticated for extra hold

| 154-851 | ADJUSTABLE, ONE SIZE FITS ALL |

VISIT **RSPRO.COM** TO DISCOVER THE COMPLETE RANGE.

DISPOSABLE COVERALL

- Excellent barrier against dry particles and certain liquid chemical splash
- Soft and light, ultra low-linting laminated microporous material that drapes and hangs well over the body facilitating ease of movement
- 3 panel hood, 2-way zip and storm flap with sealable tape with elasticated back and ankles to reduce the risk of skin exposure
- Knitted cuffs and elasticated waist and ankles for increased comfort and freedom of movement
- Anti-static coating reduces static discharge and minimises the risk of sparks
- Nuclear particulate hold out

185-7224	WHITE AND BLUE, M	4540WM
185-7225	WHITE AND BLUE, L	4540WL
185-7222	WHITE AND BLUE, XL	4540WXL
185-7219	WHITE, M	4530BM

3M™ FAHRENHEIT™ GOGGLES

- Soft crystal frame goggles with a wide support area all around the face to enhance comfort
- Specific channel on the side of the frame to accommodate the temple of prescription frames
- Specifically designed to carry tear-off folies. Replacement strips are available, but one is already included.
- Anti-Fog coating to help reduce lens fogging

184-9472	ANTI-MIST, CLEAR LENS	7136013

3M™ HALF FACE RESPIRATOR 6000 SERIES

- Made from soft, lightweight material Cradle head harness and easy to fasten neck strap
- Dual filter design and Airline system availableBayonet style fitting cartridges and filters
- Minimal obstruction to overall vision

766-384	MEDIUM	6300

3M™ BLUE HALF FACE RESPIRATOR 7500 SERIES

- Extremely pliable, soft silicone facepiece: Offers exceptionally high levels of user comfort and a good fit over a broad range of face shapes & sizes
- 3M™ Cool Flow™ Valve: The Cool Flow valve reduces heat build-up inside the respirator - even in hot and humid conditions
- Built to last: Durable construction and a wide range of spare parts
- Adjustable head harness: Enables the user to obtain a balanced, secure fit. Drop-down feature for easy removal during breaks

472-3735	MEDIUM	7502

3M™ 2000 SERIES PARTICULATE FILTER

- Low breathing resistance
- Lighter than conventional filters that provide comparable protection.
- Durable, water-resistant and flame retardant.
- Bayonet fitting ensures precise & safer locking
- Can be used on all 3M 6000, 3M 7000 & 3M 7500 Series Half Masks and Full Face Masks

358-4365	1 BOX OF 20	2138

3M PELTOR™ X5A EAR DEFENDER

- High-performance hearing protector designed to offer protection against extremely high noise levels, for example, airports, quarrying or paper mills
- Unparalleled attenuation without the need for double protection
- Twin headband design helps reduce heat buildup with good fit and balance
- Electrically insulated wire headband.
- Easy to replace cushions and inserts to help keep them hygienically clean.

778-5234	37DB HEADBAND	X5A-SV

3M PELTOR™ OPTIMEII EAR DEFENDER

- Ideal hearing protection against noise arising from a wide range of applications in the workplace and leisure activities
- Soft wide cushions help reduce pressure around the ears and improve comfort and wearability

449-6483	31DB HEADBAND	H520A-407
449-6562	31DB HEADBAND	H520F-409

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FOOD & BEVERAGE INDUSTRY
TEST & MEASUREMENT

Confidently measure with our extensive range from industry leading brands you trust for accuracy.

Test & Measurement Highlights

Browse and shop the entire range of test & measurement products online at **sg.rs-online.com**.

DPI 705E AND DPI 705E-IS HANDHELD PRESSURE INDICATORS

- 48 pressure ranges from ±25 mbar to 1,400 bar (±1.69 psi to 20,000 psi)
- Total 1 year uncertainty 0.05% full scale over -10°C to +50°C temp range
- Remote plug + play pressure and Resistance Temperature Detector sensors
- DPI705E Safe Area pressure indicator
- DPI705EIS Hazardous Area pressure indicator

Druck

201-2871	200 BAR, HAZARDOUS AREA	DPI705EIS-1-02G-P1-H1-U0-OP0
201-2877	70 BAR, HAZARDOUS AREA	DPI705EIS-1-16G-P1-H1-U0-OP0
201-2885	2 BAR, HAZARDOUS AREA	DPI705EIS-2-07G-P1-H1-U0-OP0
201-2870	70 BAR, SAFE AREA	DPI705E-1-16G-P1-H0-U0-OP0
201-2878	350 BAR, SAFE AREA	DPI705E-2-03G-P1-H0-U0-OP0
201-2867	10 BAR, SAFE AREA	DPI705E-1-11G-P1-H0-U0-OP0

DATA LOGGERS

- 3 data loggers for monitoring chilled goods, frozen goods and ripening goods
- No setup required. One button press-to-start logging
- Temperature measurement accuracy is ±0.5°C

LASCAR electronics

910-7068	CHILLED GOODS HIGH 8°C LOW 2°C	EL-CC-1-001
910-7062	FROZEN GOODS HIGH -16°C LOW -20°C	EL-CC-1-002
910-7071	RIPENING GOODS HIGH 14°C LOW 12°C	EL-CC-1-003
111-8087	WATERPROOF BAG	EL-CC-BAG

NON-CONTACT INFRARED THERMOMETER

- Medical grade infrared temperature detector
- Designed with a double moulded plastic housing with ergonomic grip for ultimate user comfort and to allow continuous use over extended periods of time
- Built-in laser targeting with a 1 cm to 10 cm measurement range, allows for better and more accurate targeting to ensure optimum measurement accuracy and precise non-contact temperature readings using the Body or Surface Temperature functions
- In Body temperature range of +32°C to +42.5°C with an accuracy of ±0.3°C

RS PRO

201-0210	DT-8806

HCB INDUSTRIAL HANGING BALANCES

- Adjusting program (CAL)
- Stainless steel snap link with safety catch and 15 mm aperture
- Up to 200 kg weighing range

KERN

700-7055	200KG CAPACITY	HCB 200K500

KEYSIGHT U1168A STANDARD MULTIMETER TEST LEAD KIT

- Test leads, Test probe (19-mm tips), Test probe (4-mm tips), Alligator Clips, Fine Tip Test Probes, SMT Grabber and Mini Grabber (black only)

KEYSIGHT TECHNOLOGIES

760-0373	19MM AND 4MM PROBE TIPS	U1168A

Browse thousands more products online **sg.rs-online.com/food**

Immediate ROI with quick and easy leak detection.

Leading-edge Fluke Ultrasonic Leak Detector on a touchscreen camera.

Immediately SEE your plant efficiency loss

Did you know that compressed air can account for 40% of wasted electricity? Locating leaks in compressed air, gas and vacuum systems has been time-consuming and tedious—until now.

With the **Fluke ii900 Sonic Industrial Imager** your maintenance team can quickly pinpoint the location of compressed air, gas and vacuum leaks in a matter of minutes during production.

→ **Organise a free demo with a Fluke specialist:**
Browse thousands more products online **sg.rs-online.com/food**
fluke.co/ii900RS

FLUKE 287
DIGITAL MULTIMETER

- Trend Capture quickly documents design performance and graphically displays the results
- Good for measuring nonlinear loads accurately and has an impressive group of ranges
- Displays resistance up to 500MΩ

FLUKE

156-724   FLUKE 287/EUR

FLUKE 289
DIGITAL MULTIMETER

- 50,000 Count, 320 x 240 dot-matrix LCD display with white backlight allowing clear multiple on-screen display of measurement information
- 0.025% basic DC accuracy
- Displays resistance up to 500MΩ

FLUKE

156-730   FLUKE 289/EUR

FLUKE 287
MULTIMETER KIT

- Multiple logging sessions
- 0.025% basic dc accuracy
- 100kHz ac bandwidth
- Saved readings time stamping
- Temperature function
- True-RMS ac voltage and current for accurate measurements on complex signals or non-linear loads

FLUKE

665-4684   FLUKE 287/FVF

FLUKE 87V-MAX
DIGITAL MULTIMETER

- Measure up to 1000 V ac and dc, 10 A and 200 kHz
- Built-in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument
- Displays resistance up to 50MΩ

FLUKE

194-6806   FLUKE-87V-MAX

FLUKE 87
DIGITAL MULTIMETER

- Accurate measurements of noisy pulse-width modulated AC voltage at the VSD and the motor terminals
- Accurate frequency measurements on VSD
- Displays resistance up to 50MΩ

FLUKE

480-2355   FLUKE-87-V/EUR

FLUKE 1587 FC
INSULATION METER

- True RMS Digital Multimeter for measuring Voltage and Current
- Selectable filter for accurate measurement of voltage and frequency on motor drives
- User selectable insulation test voltage for many applications
- Remote probe for easy and safe measurement

FLUKE

905-5920   FLUKE-1587 FC

FLUKE 376 FC CLAMP METER

- The Fluke True-RMS clamp meter measures current up to 999.9A AC/DC via jaw, 2500A AC via iFlex and voltage up to 1000VAC/DC
- It enables you to log, trend and monitor measurements while remaining safely away from the arc flash zone through Bluetooth connectivity

FLUKE

905-5914   FLUKE-376 FC

FLUKE 922 AIRFLOW
METER/KIT

- Powerful meter provides differential and static pressure, air velocity and flow readings
- Convenient colored hoses help proper interpretation of pressure readings
- Easy to use without sacrificing performance
- Bright, backlit display for clear viewing in all environments

FLUKE

850-7672   FLUKE 922

FLUKE 922 PRESSURE
VELOCITY & AIR FLOW KIT

- Measures differential and static air pressure, air velocity and air flow readings
- User-defined duct shape and size for maximum airflow accuracy
- Convenient coloured hoses help properly diagnose pressure readings
- Auto power off saves battery life

FLUKE

287-636   FLUKE 922/KIT

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DET4TC2 EARTH TESTER

- Automatic P spike and C spike check
- Choice of 2, 3 or 4 terminal measurements
- Clamp input for no-disconnect testing (requires ICLAMP)
- Clamp inputs for stakeless testing (requires ICLAMP and VCLAMP)
- Earth current range (requires ICLAMP)

Megger.

| **489-664** | 200KΩ CAT IV 100 V | 1000-345 |

AVO830 HANDHELD DIGITAL MULTIMETER

- IP54 environmental protection
- Phase rotation
- High / Low sensitivity live circuit detection
- 10 MΩ / 10 kΩ input impedance
- MIN / MAX / AVG / Smoothing

Megger.

| **136-7898** | | 1007-494 |

AVO DCM 300E

- Fully IEC1010-1 and IEC101-2-032 compliant for circuits up to 500V phase to phase or 300V phase to earth CAT III or 600V CAT II
- 30mA and 300mA ranges for leakage current measurement
- 0.01mA resolution on 30mA range

Megger.

| **247-0142** | | DCM300E |

RCDT310-EN-BS RCD TESTER, RCD TEST TYPE AC SELECTIVE, DC SELECTIVE, RCD TEST CURRENT

- Tests 30mA, 100mA, 300mA and 500mA rated RCDs
- 1/2x I, I, 5x I tests standard, DC and selective RCDs
- 0° or 180° polarity tests on all RCDs
- Selective breakers have a time delay in tripping. When selected, trip test times are extended and a 30s delay is allowed between the measurement of the fault voltage and the application of the test current
- Selectable touch voltage inhibit and touch voltage display on the analogue bargraph

Megger.

| **712-5737** | 500MA CAT III 300V | RCDT310-EN-BS |

TDR1000/3 TIME DOMAIN REFLECTOMETERS

- Dual cursors providing an instant indication of the distance between two points
- Auto set up for instant use
- Auto selected output impedance (between 25ohm, 50ohm, 75ohm and 100ohm)
- Ultra-fast pulse for near end fault identification
- Trace HOLD feature to allow comparison between cables
- Designed for use on all metallic cable pairs

Megger.

| **764-2825** | 5000M | 001-788 |

MIT515, INSULATION TESTER

- 10 TΩ (5 kV) / 20 TΩ (10 kV) max. insulation resistance
- Timed IR plus PI and DAR diagnostic tests
- Operate with dead battery when on line power/mains
- Rapid charge Li-ion battery – up to 6 hrs continuous testing (5 kV)
- Dedicated voltmeter function (30 V to 660 V)
- CATIV 600 V safety rating
- Large LCD display with automatic backlight
- Noise filter – rejects up to 3 mA noise

Megger.

| **763-9267** | 5000V, 10TΩ, CAT IV | 1001-935 |

PAT450 PAT TESTER

- Simple operational interface
- Storage of completed forms with retrieval by certificate type or client
- PDF export facility for safe and simple distribution
- Multi-page Schedules for testing larger installations
- Drop down fields to speed up certificate completion

Megger.

| **705-6283** | CLASS I, CLASS II TEST TYPE | 1003-755 |

MFT1835 MULTIFUNCTION TESTER, EARTH RESISTANCE MEASUREMENT WITH GERMAN MAINS

- 3-terminal earth test and stakeless testing for spike resistance measurement
- Full input protection and safety warnings when a hazardous voltage is present
- Internal memory and Bluetooth communication
- Simple colour-coded test selection and large clear backlit display for ease of use
- Two and three wire non-trip loop testing for RCD protected circuits

Megger.

| **1002-415** | 1000V | 1002-415 |

MIT 410/2 SERIES INSULATION & CONTINUITY TESTERS

- Stabilised insulation test voltage
- 600 V TRMS AC and DC voltage measurement
- Live circuit detection and protection
- CAT IV 600 V & IP54
- Weatherproof, rated to IP54

Megger.

| **921-4514** | 1000V, 200GΩ | 1004-735 |

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Take the trouble out of troubleshooting.

MPQ1000

Power Quality Analyzer

The Megger MPQ1000 Power Quality Analyzer is Class A compliant and rated CAT IV at 600V. It can be used for a wide variety of applications including substation monitoring, equipment and breaker tripping, load studies and balancing as well as for switchgear and component failure.

Some of its features include:

- Automatic CT recognition
- Automatic connection verification
- On-board data analysis
- SD card and USB stick support

- 1000 V ac and dc range
- Scope and DMM modes
- CATIV @ 600 V
- IEC61000-4-30 Class A compliant

Power on with Megger.

Megger®

Power on

Discover the RS PRO range of **Test & Measurement equipment.**

Your smart choice for any measurement need - from environmental to lab equipment, from electrical products to a collection of maintenance solutions.

RS 135 MULTI FUNCTION CALIBRATOR

- Source 4~20 mA, 0~24 mA with 1 µA resolution (1 KΩ load, 24 V loop supply), basic accuracy 0.025%
- Source 0~24.000 V with 1 mV resolution
- Source frequency 1~20000 Hz square wave with programmable duty cycle (1~99%)
- Auto step and auto ramp for sourcing mA, V
- Easy fixed 25% up and down, or programmable percentage (1~99%) increase and decrease (mAV)
- Measure DC mA with loop power (24 V output)
- Measure DC V
- Measure Temperature (°C, °F) of 11 types of thermocouples (K, J, E, T, R, S, N, L, U, B and C)
- Calibrator grade precision temperature measurement with 0.1°C & 0.1°F resolution
- Detection of thermocouples disconnection
- Warning for overload, output open (mA) or short (V)
- Short circuit protection for output
- Battery power indication (%) when turn on the calibrator
- Battery or electrical power supply

174-9557 4-20MA LOOP CALIBRATOR + THERMOMETER

MAGNETIC FIELD INDICATOR / SOLENOID TESTER

- Easy to use
- Powerful red light indicator
- Lightweight

375-5422 MAGNETIC STICK FIELD INDICATOR

BLUETOOTH POWER CLAMP METER

- 10,000 count digital display
- 50 segment analogue bar graph
- Large LED backlit display
- Bluetooth connecting
- Auto store up to 1000 memories
- Data logging up to 9,999 records
- True RMS reading on AC and AC+DC mode
- Torch lightening on trigger push
- Auto Ohms/Continuity/Diode selection
- AC 600 Amps capability
- Auto AC/DC 1000 Volts capability and selection
- AC current via flexible current probe
- Power and power factor measurement
- Total harmonics distortion and harmonics 1 to 25
- Phase rotation indication
- 100K Ohms resistance capability
- Frequency counter
- Capacitance capability
- Smart data hold, peak hold, min max hold functions
- Inrush current

162-4455 RS PRO 155 BLUETOOTH CLAMP MULTIMETER

ATEX/IECEX MAGNET STICK INDICATOR

- Easy to use
- Powerful red light indicator
- Lightweight
- Ambient Temperature: -20°C to +40°C
- Weight: 40 gms

141-1996 ATEX/IECEX MAGNET STICK INDICATOR

VISIT RSPRO.COM TO DISCOVER THE COMPLETE RANGE.

RS PRO TG301 INFRARED THERMOMETER

- Easy-to-use ergonomically designed pistol grip IR thermometer
- his thermometer lets you see the heat map on the display so you know exactly where to target the temperaturTe measurement spot.
- This device easily finds unseen hot and cold spots for instant troubleshooting and has the best accuracy in class with its wide thermal range.
- This IR thermometer has been designed specifically for electrical, HVAC, mechanical and automotive applications.

918-1085

RS PRO IT-1 INFRARED THERMOMETER

- Single Type K bead thermocouple supplied
- K or J-Type - thermocouple input
- Real-time stamp
- Data logging up to 16000 records
- °C, °F or °K display - so you switch between Celsius, Fahrenheit and Kelvin
- Auto Power Off with selectable time setting

123-3217   RS53II SERIES

DRY-WELL TEMPERATURE CALIBRATOR

- Suitable for checking the accuracy of RTDs (Resistance Temperature Detectors), thermocouples, and small bimetal thermometers in the field
- Fast, accurate and easy calibrations of temperature sensors for reliable measurement results
- Multiple sized sensor holes that accepts a wide range of temperature sensor diameters, for increased versatility across a wide variety of applications
- Built-in fan cooling feature allows rapid temperature changes and the temperature can be adjusted in 0.1°C increments if necessary

193-8701   BX-150 +33°C TO +300°C

SURFACE TEMPERATURE PROBE

- Time constant 1 second (clean tip)
- Solid waterproof handle for added protection and to prevent damage by excess heat
- Wide temperature measurement range of -200 to 1000°C

342-8956   THERMOCOUPLE TYPE K FAST RESP, -50TO250

LUX/FC LIGHT METER ILM-201L

- Measuring range: 200, 2000, 20 000, 200 000 lux; 20, 200, 2000, 20 000 foot-candles
- Accuracy ±3% (calibrated to standard incandescent lamp 2856 oK) and corrected LED day white-light spectrum (±8% other visible light source)
- 3 digits LCD with maximum reading 1999
- Max Hold
- Manual zero adjustment
- Manual ranging
- Meter size 130 x 55 x 38 mm
- Sensor size 80 x 55 x 25 mm

124-0938   LUX/FC LED LIGHT METER

CONTACT AND NON-CONTACT TACHOMETER

- Durable and robust housing for use in challenging environments while offering an intuitive and easy to use interface for optimum ease of use
- A wide measuring range and high resolution for accurate and reliable results as a contact or non-contact form of measurement
- A solution for non-invasive ways of measuring RPM and surface speed, especially in areas where it may be dangerous or difficult for the user to reach

193-8688   AT-8

DESKTOP INDOOR AIR QUALITY CO2 MONITOR

- High-quality CO2 monitor with a large LCD display for easy visual identification
- Real-time readings for accurate monitoring and detection
- Also measures immediate air temperature and humidity
- Compact and ergonomic design, suitable for use in workspaces where there is limited space
- This portable CO2 monitor can be used to observe and control CO2 levels indoors
- Automatic shutdown if the device has a low battery or if it is left idle for more than 10 minutes

174-6574   RS-967

TACHOMETER REFLECTIVE TAPE

- Self-adhesive reflective tape
- Suitable for use with optical tachometers and stroboscopes
- RoHS (Restriction of Hazardous Materials) compliant with EU Directives 2011/65/EU and 2015/863
- Complies with the ANSI/ESD S20.20:2014 and BS EN 61340-5-1:2007 Electrostatic Control Standards

845-9731   PACK OF 10

IPS SERIES MULTIPLE OUTPUT PROGRAMMABLE LINEAR DC POWER SUPPLIES

- 2,3, and 4 Independent isolated output
- User-friendly operation, coarse/fine volume control
- USB standard interface
- Low noise achieved by a smart cooling fan achieving
- Digital panel control (rotary encoder switch, rubber key with indicator)
- Tracking series and parallel mode - The tracking series mode guarantees higher output voltage, while the tracking parallel mode guarantees higher output current.

123-3558   2CH,180W PROGRAMMABLE LINEAR DC P/S

ULTRASONIC CLEANING TANK WITH LID

- Timer: 1-99 mins
- Ultrasonic Power: 100W
- Frequency: 40 KHz
- Material: Stainless steel tank and housing
- Plug: UK & EU plug

124-9721   2L 138X124 MM

DIGITAL CALIPER

- Clear LCD display
- Stainless Steel construction
- Origin setting
- Switchable On/Off
- Thumbwheel for fine adjustment
- Knurled locking screw
- Supplied with battery

841-2518	150MM/6"
841-2511	200MM/8"
841-2515	300MM/12"

EXTERNAL DIGITAL MICROMETER

- External, digital micrometer
- Metric and imperial units
- Minimum measurement of 0 mm
- Maximum measurement of 25 mm
- Resolution of 0.001 mm
- Accuracy of ±0.002 mm
- Electronic LCD screen
- Battery operated

705-1229   0-25MM/0-1IN

METRIC EXTERNAL MICROMETER SET

- External metric micrometer set
- Minimum measurement of 0 mm
- Maximum measurement of 150 mm
- Resolution of 0.01 mm
- Accuracy of ±0.004 mm
- Set contains six micrometers, setting rods and adjustment tools

705-1213   0 MM →150 MM

TUBULAR ROD INSIDE MICROMETER

- Accuracies of 0.01mm.
- Ranges of 50 to 600mm.
- Non-glare satin chrome barrel and sleeve.
- Each set consists of a micrometer head with locking screw.

785-7847   50-250MM

ILLUMINATED MAGNIFIER

- Contour Grip
- Rubberised Black Body
- Overall Dimensions: 7- in x 3 x in
- 4 LEDs
- 1 UV Bulb: 395 to 400 nm

136-8095   2.5X

CYLINDERS WITH PRINTED GRADUATIONS (CLASS B)

- ISO 6706 compliant cylinders in ultra-clear PP
- Enhanced pin-sharp blue-printed graduations
- Polypropylene bottles with good chemical resistance
- Stable hexagonal base with an anti-suction design that prevents the base from sticking to a wet surface

461-0831	10ML (PACK OF 10)
461-0847	25ML (PACK OF 10)
461-0853	50ML (PACK OF 10)
461-0869	100ML (PACK OF 5)
461-0875	250ML
461-0881	500ML
461-0904	1000ML
461-0910	2000ML

PRESSOL MEASURE JUG WITH LID AND FLEX SPOUT

- Flexible spout and lid
- Oil, acid and fuel resistant
- Ergonomic design
- Durable and stable
- German, English and American scale divisions

703-1102	1L
703-1105	2L
703-1109	3L
703-1118	5L

FOOD & BEVERAGE INDUSTRY
SITE SAFETY

All the components you need for to keep your employees safe on site.

Site Safety Highlights

Browse and shop the entire range of site safety products online at **sg.rs-online.com**.

SPILL CONTROL PALLET

- Prestige, Double IBC polyethylene spill pallet
- Fully sealed, moulded bund
- Extra grip plastic grating, holds the IBC's clear of spillages.
- Plastic grating will hold 2 fully loaded IBC's Extra tough poly construction will resist knocks and direct impacts
- Will hold a combination of 205ltr drums and IBC's
- Suitable for storing 2 # IBC, 8 # 205 litre drums or a combination of both
- Safe working load capacity - 4000Kg

Lubetech

177-2741	SPILL PALLET	31-3073

PATLITE LA6 POE SIGNAL TOWER

- Ethernet connection with PoE (Power over Ethernet) support, enabling single cable installation
- Supports Modbus TCP/IP and HTTP protocols to work seamlessly with your existing infrastructure
- Built-in web interface for quick and easy setup and configuration
- Includes 21 programmable LED colours and 11 selectable alarms for unambiguous indication
- Features a mirroring function for replicating the visual and audible statuses from a master LA6-POE on up to 8 remote slave LA6-POE
- Built-in terminal block as an alternative control method

PATLITE

169-8808		LA6-5DSNWB-POE
169-8809		LA6-5DTNWB-POE

TELESCOPIC EXTENSION ACCESS POLE

- Access poles provide access to detectors which are out of normal reach.
- Lightweight and quick to extend and are made of non-conducting fibre glass construction.
- Non-whip even at height
- Certified non-conductive - protecting both the engineer and overhead live equipment from inadvertent shorts
- Designed for use with the Solo aerosol dispenser and detector removal tool.

201-3092	4.5M L	SOLO100
201-3115	1.13M L	SOLO101
201-3121	SMOKE DETECTOR TESTER	SOLO200
201-3137	AEROSOL SMOKE DISPENSER	SOLO330

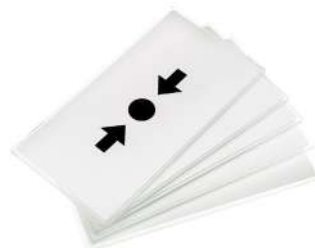### DOOR RELEASE

- Green MCP, double pole, surface mounted with glass Break glass operation
- Surface mounting
- Unique plug and play concept saves installation time
- Anti-tamper facility to reduce false alarms

KAC

513-6968	REPLACEMENT GLASS (PACK OF 5)	G11140
513-6974	TEST KEY (PACK OF 10)	SC070

PE DRIP TRAY

- Ideal choice for containing spills in the work area, storing,handling smaller drums and cans.
- Compact, lightweight and fit into small area.
- Made from 100% polyethylene, they're also stronge and there compatible with most liquids.
- Practical, simple and safe solutions for handling small liquids and spillages.

ecospill

192-7769	57CM X 39CM X 5CM 10L	P3040503
192-7768	79CM X 40CM X 5CM 9L	P3048040

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PLATINUM LED EVAGO WALL MOUNT SINGLE SIDED PICTO EXIT

- 5 year warranty
- LED technology 100,000 hours plus lamp life
- Low power consumption and LED light source for reduced operation and maintenance costs

ABB

| 179-4150 | SINGLE SIDED PICTO | PELEVEMSWM-1 |
| 179-4144 | BATTERY LIFEPO4 3.2V 1.14AH | 03-YPMA011 |

SIGNATURE FLOOD LIGHT LED

- 3 year warranty
- LED technology 100,000 hours lamp life
- Light output typically 600 lumens per lamp head

ABB

| 179-4177 | 2X10W 12V NON-MAINTAINED | FL210LED |
| 179-4178 | BATTERY SEALED LEAD ACID 12V 7AH | 14-00061 |

PLATINUM LED WEATHERPROOF PICTO EXIT

- 5 year warranty
- LED technology 100,000 hours plus lamp life
- Low power consumption and LED light source for reduced operation and maintenance costs

ABB

179-4133	3.2W <PICTO	PWEXLEDP-2
179-4134	3.2W PICTO>	PWEXLEDP-3
179-4067	BATTERY LIFEPO4 3.2V 3.2AH (SINGLE)	03-01301P

SIGNATURE BATTEN LED WEATHERPROOF MAINTAINED

- EM unit
- 3 year warranty
- Typically 4,500 lumens on MAINS AC operation

ABB

179-4156	EM 4500 LUMENS	SBLWEM45LM
179-4157	EM 4500 LUMENS WITH MOTION DETECT SENSOR	SBLWEM45LMMD
179-4158	BATTERY 3 CELL NICAD 3.6V 4.5AH	03-01016P

ECONOMY E-LUNA CIRCULAR LED

- High efficiency LEDs
- 1 year warranty
- Long LED life 50,000 hours with low maintenance suitable for difficult to access areas
- High colour rendering index CRI >80

ABB

179-4170	IP20 AC 2200 LUMENS	ECLAC22L
179-4171	IP20 AC 2200 LUMENS WITH MOTION DETECT SENSOR	ECLAC22LMD
179-4174	BATTERY 3 CELL NICAD 3.6V 4.5AH	03-01223

EVAGO WIRE SUSPENSION KIT

- 1.5m and 3m rod suspension kit

ABB

| 179-4148 | 150CM | EVWSK150CM |
| 179-4149 | 300CM | EVWSK300CM |

SIGNATURE CIRCULAR LED WEATHERPROOF SUSTAINED

- 3 year warranty
- Long LED life 50,000 hours with low maintenance suitable for difficult to access areas
- High colour rendering index CRI >80

ABB

| 179-4176 | EM 2000 | SCLWEM20LS |
| 179-4055 | BATTERY 5 CELL NICAD 6.0V 1.8AH | 03-01220 |

PLATINUM SPITFIRE LED SURFACE MOUNT NONMAINTAINED

- 5 year warranty
- Superior photometric classification
- LED technology 100,000 hours plus lamp life

ABB

179-4069	SINGLE, 1.0W	SFB1LEDP
179-4070	DUAL, 1.0W	SFB2LEDP
179-4055	BATTERY 5 CELL NICAD 6.0V 1.8AH	03-01220

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MOFLASH INTRINSICALLY SAFE LED SOUNDER/BEACON – IS-SB SERIES

- Suitable for fire, security, process control and general signalling applications
- The sounder/beacons incorporate a two stage alarm option
- Zones 0, 1, 2, 20, 21 and 22 ATEX and IECEx approved
- IP66 rated
- Surface Mount
- Polycarbonate housing material

MOFLASH

144-5953	IS-SB SOUNDER BEACON, AMBER LED, 24 V DC
144-5954	IS-SB SOUNDER BEACON, RED LED, 24 V DC

32 TONE SOUNDER - IS-S SERIES

- The sounders incorporate a two stage alarm with a total of 32 selectable tones
- Zones 0, 1, 2, 20, 21 and 22 ATEX and IECEx approved
- IP66 rated
- Surface Mount
- Polycarbonate housing material

MOFLASH

144-5950	IS-S BASE SOUNDER, 105DB, 24 V DC

MOFLASH INTRINSICALLY SAFE BEACON – IS-B SERIES

- The beacons incorporate a dip switch that allows you to change from 1 Hz flash rate to a static signal
- Zones 0, 1, 2, 20, 21 and 22 ATEX and IECEx approved
- IP66 rated
- Surface Mount
- Polycarbonate housing material

MOFLASH

144-5951	IS-B BEACON, AMBER LED, 24 V DC

MOFLASH DUAL FUNCTION LED BEACON - LED80 SERIES

- 12 extra-bright LED's
- Continuously-rated
- UV-stable polycarbonate lens and body
- Wide operating voltage
- 180° visibility
- Easy, snap-fit installation (with base plate for surface mounbt option)
- May be used in genaral signalling applications

MOFLASH

721-6423	LED, MULTIPLE EFFECT BEACON LED 80 SERIES, AMBER, SURFACE MOUNT, 10 → 100 V DC
721-6432	LED, MULTIPLE EFFECT BEACON LED 80 SERIES, RED, SURFACE MOUNT, 10 → 100 V DC
721-6435	LED, MULTIPLE EFFECT BEACON LED 80 SERIES, BLUE, SURFACE MOUNT, 10 → 100 V DC
721-6439	LED, MULTIPLE EFFECT BEACON LED 80 SERIES, GREEN, SURFACE MOUNT, 10 → 100 V DC
721-6448	LED, MULTIPLE EFFECT BEACON LED 80 SERIES, AMBER, SURFACE MOUNT, 115 V AC, 230 V AC
721-6441	LED, MULTIPLE EFFECT BEACON LED 80 SERIES, RED, SURFACE MOUNT, 115 V AC, 230 V AC
721-6445	LED, MULTIPLE EFFECT BEACON LED 80 SERIES, BLUE, SURFACE MOUNT, 115 V AC, 230 V AC
721-6454	LED, MULTIPLE EFFECT BEACON LED 80 SERIES, GREEN, SURFACE MOUNT, 115 V AC, 230 V AC

MOFLASH INDUSTRIAL ECO LED BEACONS WITH PIEZO BUZZER - LEDA100 SERIES

- Dual function, flashing or continuous (static) mode
- 80 dB piezo buzzer which only activates with the flashing mode
- Continuously rated
- LED long life
- Low current consumption
- Suitable for surface, conduit box or wall mounting
- 3 point fixing
- 360° light output around the vertical axis
- Dustproof and weatherproof
- UV stable polycarbonate lens
- UV stable ABS plastic base
- 160 flashes per minute (FPM)
- IP65 protection
- RoHS compliant
- CE Marked

MOFLASH

865-1625	LEDA100 BUZZER BEACON, AMBER LED, 8 → 20 V AC/DC
865-1634	LEDA100 BUZZER BEACON, RED LED, 8 → 20 V AC/DC
865-1637	LEDA100 BUZZER BEACON, GREEN LED, 8 → 20 V AC/DC
865-1631	LEDA100 BUZZER BEACON, AMBER LED, 20 → 30 V AC/DC
865-1647	LEDA100 BUZZER BEACON, AMBER LED, 40 → 380 V DC, 85 → 285 V AC
865-1659	LEDA100 BUZZER BEACON, GREEN LED, 40 → 380 V DC, 85 → 285 V AC
721-6479	LEDA125 SOUNDER BEACON, 90DB, CLEAR LED, 24 V DC

MOFLASH TLM MODULAR SIGNAL TOWER

- Beacon units are dual function, flashing or continuous (static) mode
- Sounder unit output: 80 - 120 dB
- Continuously rated
- LED long life
- Low current consumption
- Suitable for surface mounting
- 360° light output around the vertical axis
- Dustproof and weatherproof
- UV stable polycarbonate lens
- UV stable ABS plastic base
- 60 flashes per minute (FPM)
- IP54/65 protection
- RoHS compliant
- CE Marked

MOFLASH

865-1722	LED-TLM BEACON UNIT, AMBER LED, STEADY LIGHT EFFECT, 24 V DC
865-1726	LED-TLM BEACON UNIT, RED LED, STEADY LIGHT EFFECT, 24 V DC
865-1744	LED-TLM SOUNDER UNIT, , 24 V DC
865-1757	LED-TLM TERMINAL UNIT, TERMINATION UNIT
901-0722	LED-MINI BEACON UNIT, AMBER LED, STEADY LIGHT EFFECT, 12 → 24 V DC
901-0747	MOUNTING BRACKET & POLE FOR USE WITH LED-MINI
901-0738	MOUNTING FOOT & POLE FOR USE WITH LED-MINI

LED Long Life
Visual Signalling Devices

MOFLASH SIGNALLING

SAFE DISTANCING BUNDLE

- Introducing the RS PRO Social Distancing Kit that includes everything needed to set up and manage social distancing within a variety of environments
- It includes an infrared thermometer, a 2 m safety barrier and footprint-shaped floor labels as clear markers to indicate the correct distance

201-3047   SAFE DISTANCING BUNDLE

LOCKOUT STARTER KIT

- An essential addition to any workplace, this starter kit is from our high-quality own brand RS PRO, offering machine, electrics and worker protection
- Basic lockout for valves and electrical panels

862-5247   24 PRODUCTS

WARNING SIGNAGE

- A dual-message sign to warn of live electrical equipment and a mandatory message for safe working or faults.
- The sign measures 300 x 150 x 1.2 mm and are printed with yellow/black and blue on a white background.

763-1711   DANGER - LIVE ELECTRICAL EQUIPMENT

SHADOW BOARDS KITS

- The RS PRO cleaning shadow board kit contains all the essential tools to maintain exceptional hygiene standards in a range of different environments
- Using a shadow board also helps quickly identify missing equipment, whilst providing a neat and tidy storage place when not in use


201-3132	STYLE A (BLUE)
201-3133	STYLE A (RED)
201-3134	STYLE B (BLUE)
201-3135	STYLE B (RED)

ZONE WORKING BUNDLE

- The RS PRO zone working kit is an ideal solution to use for establishing clearly marked work zones for individual workers and removing the potential health and safety risk of employees being in close proximity of each other while working in busy manufacturing or industrial environments
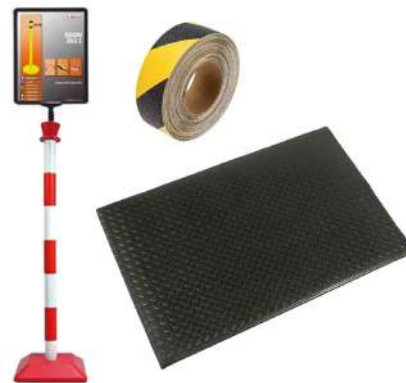
201-3136   ZONE WORKING KIT

VISIT RSPRO.COM TO DISCOVER THE COMPLETE RANGE.

FULL DOME MIRROR 360 DEGREE VIEWING

- 4 way intersection
- Panoramic viewing
- Edge is rubber material
- Excellent visibility

773-9714   DIA 60 CM

ANGLES PROTECTION WITH TAPE

- Angles protection for protecting people, vehicles or equipment
- Ideal for warehouses, factories, parking
- Double Adhesive backed tape
- Nitrile Butadiene Rubber doubleface tape for fixing oil and grease resistant
- High visibility
- Black/Yellow
- Available in square, rounded or flat

724-9782	ANGLE PROTECTION 30X30X8MM
724-9766	ANGLE PROTECTION Ø40MM 750MM
724-9779	ANGLE PROTECTION Ø40MM 750MM
724-9808	PLATE PROTECTION 60X10MM 5M
724-9798	PLATE PROTECTION 60X10MM 750MM

HEAVY DUTY RUBBER WHEEL CHOCK

- Stops wheels from moving during critical maintenance work.
- Made from a thick rubber to ensure a long life.
- Integrated handle for easy removal and carrying.
- Ideal for all types of automotive work. Trucks, vans and cars are all supported.

125-2183   HEAVY DUTY WHEEL CHOCK FOR TRUCKS

WARNING CONES

- Class 1 reflective cone
- Made of polypropylene - very durable
- Two reflective stripes - highly visible even in the dark
- Colour: orange and white
- General use cone - optional chain or hook can be attached
- Easy to use – just place them where you want them, no need to connect them
- Can be stacked when not in use – convenient storage

503-681	30 CM
503-754	50 CM

BARRIER & STANCHION TAPE CASSETTE

- Barrier & stanchion tape cassette prevent movement and restricts access
- Flexible retractable barrier without taking up any floor space
- Wall reel with ANTI-PANIC device (the strap is automatically released in case of crowd movement)
- Wall receiver and magnets included
- Tear-proof strap
- Waterproof casing
- Outdoors and Indoors applications

217-5266   50 MM WIDTH

FORKLIFT TRUCK AREA FLOOR SIGN

- Permanent adhesive fixing
- Graphics printed on the underside of clear PVC film to withstand everyday warehouse traffic
- Material PVC

873-5921   430MM DIA

NO ENTRY SIGN PLASTIC

- Permanent adhesive fixing
- Graphics printed on the underside of clear PVC film to withstand everyday warehouse traffic
- Material PVC

261-1012   450X450MM

ISO 7010 VINYL PICTOGRAM SIGNS

- 100X100MM

813-4454	CRUSHING OF HANDS SIGN
813-4423	ELECTRICITY SIGN
813-4463	FLAMMABLE MATERIAL SIGN
813-4445	HOT SURFACE SIGN
813-4502	NO SMOKING SIGN
813-4473	WEAR EAR PROTECTION SIGN

CHEMICAL SPILL KIT

- A total 'one stop' package for a quick and effective response to spillages
- 210L contains 3m socks, 6 pillows, 15 hazard bags and 170 pads
- 105L contains 60 x oil absorbent pads, 4 x 3 m spill sock, 3 x pillows and 8 x hazard waste bags and ties

189-0063 210L

189-0069 105L

PE SPILL TRAY WITH GRATE

- Moulded, low profile design and shallow depth of the drip tray makes it easier to catch drips, leaks and spills

893-0366 30 LITRE

SPILL CONTROL EQUIPMENT PALLET

- Used for catching spills of hazardous liquids
- Length of 1,340 mm
- Width of 1,230 mm
- Height of 1,090 mm
- Removable plastic mesh deck
- Integral tray to catch drips
- Four-way forklift access
- Conforms to ANSI/ESD S20.20:2014 and BS EN 61340-5-1:2007 Electrostatic Control Standards
- RoHS (Restriction of Hazardous Substances) compliant

189-0057

SPILL TRAY

- These polyethylene spill trays are designed to contain any spilt fluids safely
- Easy to clean
- Material is resistant to UV and chemicals

893-0384 60 LITRE

893-0372 40 LITRE

OIL SPILL ABSORBENT SOCK

- Absorbent sock is iideal for spill containment and absorption of oil-based liquids like oil and fuel
- Designed with an extra thick outer skin and unique stitch pattern for optimum fluid retention and absorption
- Excellent for both indoor and outdoor use across a wide range of applications
- Ideal for placing around the base of machinery or fluid storage areas for extra precaution to absorb leaks or drips
- Every sock can absorb 4 litres of fluid per sock
- Single use application only

771-6415 7.5CM X 1.2M, 20 PACK

WALL MOUNTED PLACTIC GLOVE BOX

- Used for storing and protecting electrician's gloves can be used for wall mounting.

218-4754 50 CM x 250 MM x 10 CM

DELUXE FIRST AID KITS

- Toughened cases with additional dividers for organising content
- Available for 1-10 and 21-50 Persons
- Shatterproof ABS case
- Clear Perspex content dividers
- Rubber dust & moisture seal
- Supplied with wall fixing bracket

367-0977 SMALL KIT FOR 10 PERSONS

VISIT RSPRO.COM TO DISCOVER THE COMPLETE RANGE.

FOOD & BEVERAGE INDUSTRY
FACILITIES CLEANING & MAINTENANCE

Essentials to keep your work space and equipment to the highest of hygiene standards.

Facilities Cleaning & Maintenance Highlights

Browse and shop the entire range of Facilities Cleaning & Maintenance products online at **sg.rs-online.com.**

FOODLUBE

- Specialist food grade lubricants
- Technically advanced lubricants developed by chemists and engineers to meet customer needs.
- Reduce production downtime
- Avoid costly product recalls
- Support audit compliance

146-2963	ANTI-SEIZE AND THREAD COMPOUND FOR FOOD PROCESSING MACHINERY 500G	15743
448-0719	SUGAR DISSOLVING FLUID,500ML	15110
512-6062	EXTREME MULTI-PURPOSE EP GREASE, 380G	15241

OT20

- An oxygen compatible lubricant
- Designed for use on breathing apparatus in Ministry of Defence aircraft, sub-sea equipment and operating theatres in hospitals

204-8358	PERFLUOROPOLYETHER GREASE 400G, OT20 TUBE, FOOD SAFE	39023

RT15

- An oxygen compatible lubricant
- Lengthens relubrication periods dramatically due to its ability to resist degradation in hostile conditions
- Used in gearboxes, anti-friction and plain bearings, or any sliding surface such as pins, valves, plungers, screws etc.

204-8359	PERFLUOROPOLYETHER GREASE 400G, RT15 TUBE, FOOD SAFE	39043

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RS Components | Food & Beverage Manufacturing 27

Vikan

HAND BRUSHES FOR THE FOOD INDUSTRY

• Hand brush with soft bristles is ideal for sweeping fine particles such as flour from conveyor belts, food preparation surfaces, tables and equipment

775-6303	BLUE	45873
775-6319	YELLOW SOFT HAND BRUSH	45876
775-6315	WHITE	45875
176-7547	HAND BRUSH LARGE, 200MM, STIFF, BLUE	

HYGINE BUCKET

• Hand brush with soft bristles is ideal for sweeping fine particles such as flour from conveyor belts, food preparation surfaces, tables and equipment
• 12 Litre

884-7642	GREEN	56862
188-9754	GREY	568688
188-9752	LIME	568677
884-7652	YELLOW	56866

SQUEEGEES FOR FOOD INDUSTRY

• Polypropylene stock, rubber blade
• Application: containment of liquids in cleaning

390-4416	BLUE	77543
390-4450	YELLOW	77546
390-4422	RED	77544

BOTTLE BRUSHES

• Tube Brush suitable for cleaning bottles, tubes and gaps between lines on conveyor belts
• Material: Polypropylene, Polyester, Stainless Steel
• Dimensions (Ø x L): 20 x 500 mm

188-8940	PINK	53761
884-7557	GREEN	53762
884-7551	BLUE	53763
884-7563	WHITE	53765
884-7567	YELLOW	53766

MEDIUM FLOOR BROOM

• 50 x 400mm, 56mm bristle length
• Polyester stock and bristle
• Application: sweeping medium sized particals/dust

390-4927	GREEN	
390-4961	YELLOW	
390-4933	BLUE	

TABLE AND FLOOR SCRAPER

• Table and floor scraper with stainless steel blade.
• This scraper is suitable for removing stubborn food debris from floors and other surfaces.
• Can be used with any handle from the Vikan colour coded range.

177-4060	260MM, WHITE	29105
177-4059	260MM, YELLOW	29106
1774064	260MM, GREEN	29102

TUBE BRUSH

• Clean pipes, tap outlets and narrow spaces between machine parts.
• The filaments are attached to a twisted stainless steel rod which makes chemical resistant and strong.

176-7660	10MM, 480MM, STIFF, YELLOW	53756
176-7662	10MM, 480MM, STIFF, RED	53754
176-7664	10MM, 480MM, STIFF, GREEN	53752
176-7609	40MM, 510MM, MEDIUM, RED	53784
176-7643	60MM, 510MM, MEDIUM, WHITE	53705
176-7674	60MM, 510MM, MEDIUM, BLACK	53709

ULTRA HYGIENIC PP HANDLE,1300MM

• Ultra Hygienic Handle of polypropylene
• Manufactured according to the European and American regulations for food contact materials
• Rounded grip
• Chemical resistant, withstands the most aggressive cleaning chemicals

823-4734	BLUE	29603
823-4737	RED	29604
823-4740	YELLOW	29606
823-4725	GREEN	29602

ERGONOMIC SHOVEL

• Use this durable shovel to move large amounts of food waste or food ingredients.
• Ergonomically designed with the user's working position in mind, this product is ideal for working at floor level as well as shovelling from container to container.

188-8945	380 X 340 X 90 MM, 1310 MM HANDLE	56015

Browse thousands more products online **sg.rs-online.com/food**

350CC BRUSH OILER

- Nylon Pump System
- 135 mm Spout
- 120 g in weight
- 140 mm high

801-0746 300CC BRUSH OILER

COTTON BUDS

- 150mm long – great for cleaning hard to reach areas
- Tightly wrapped cotton wool head – absorbs and lifts detritus with minimal lint separation
- Rigid wooden stick – provides control and precision
- Can be used wet or dry – solvent can be applied to tip for more effective cleaning

558-802 SINGLE ENDED, 200/BOX

SILICONE GREASE

- Silicone grease is a water repellent, non-melting silicone grease lubricant;
- Commonly used to lubricate plastic and polythene water pipes, rubber washers and other fluid pipework during assembly;
- Working temperature range is between -50°C to 200°C;
- This item is non-toxic;
- Acting as waterproof or air tight seal

494-124 100G TUBE

FIBRE OPTIC CLEANING PRODUCTS

- Optronics 1.25mm Microfibre Clean Stick

121-4194 100 PCS

SCREW GRAB

- Increases torque by up to 800%
- Tools "Grab" to remove deformed screw heads or rounded hex's & sockets
- Easy to use, wipes clean
- Great for seized, rusted and damaged screws, nuts and bolts
- Ideal for hard to reach spaces or mismatched sockets
- Non-corrosive and non-toxic

200-529 15 ML BOTTLE

PLATEN CLEANER

- Dissolves toughest ink marks, as well as oil or grease
- Restores grip after cleaning and leaves no residue
- Does not damage rubber - extends the lifetime of rubber rollers therefore preventing costly replacement
- Easy to apply
- Supplied in a 100ml pump spray

217-3891 100ML PUMP SPRAY

GLASS CLEANER, 250 ML SPRAY

- Removes traces of dirt and grease from glass surfaces
- Ideal for cleaning optical instruments, spectacles and VDU screens
- Suitable for cleaning flat glass prior to sealing the unit

136-8540
136-8547

50 LITRE PLASTIC FLIP TOP BIN

- Durable plastic design that's easy to clean and maintain
- Flip lid for easy access
- Lightweight and portable
- Can be used for a range of waste needs
- Waterproof

178-7702 YELLOW
178-7699 RED

RS PRO

UNIDIRECTIONAL GOOSENECK MICROPHONE

• Unidirectional;
• Frequency: 10 Hz to 16,000 Hz;
• Lightweight and flexible;
• 3-pin XLR connector;
• All metal case with non-glare black finish

699-7304 500OHM

METAL HORN SPEAKER

• High-quality sound in public spaces or industrial settings such as factories or workshops.
• Made from hard-wearing, weather-resistant metal and is suitable for both indoor and outdoor use.
• IP66 rating – dust-tight, withstands powerful water jets

535-0316 30W
535-0300 15W

WHITE WALL CLOCK

• Excellent for indoor usage
• Incredibly good value for money and is suitable for commercial, health, educational, industrial applications and countless public spaces
• AA batteries are included
• 300 mm diameter x 40 mm depth, weight 740 g
• The viewing distance during a day is up to 25 metres
• Water-resistant clock, which means it is suitable for damp and humid conditions.

706-4773 WHITE, 300MM DIA

WRITE-ON SELF-ADHESIVE

• Self-adhesive vinyl cloth labels.
• Pre-printed labels come with a space to write your own text on using a ballpoint pen or any other spirit-based ink.
• The labels can be used in different industries for all labelling requirements such as organising and performing quality control processes.
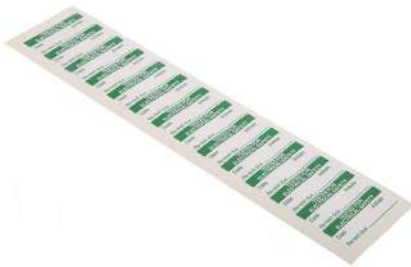
450-6164 LABEL 'TESTED FOR ELECTRICAL SAFETY' (PACK OF 140)

LCD STOPWATCH 309

• Stylish black water resistant plastic case, making it ideal for use in a range of applications
• Clear LCD screen to display results with ease
• Large 12mm and 10mm digit heights
• Normal time, calendar, alarm and lap facility
• Accuracy within 2 second over 24 hours
• 5 year battery life under normal use, providing a long lasting and reliable device
• 1/100 second resolution
• Counts up to 40 minutes in 1/100 second and then to 24 hours in 1 second intervals

811-1814 DIGITAL STOPWATCH BLACK

SILENT SECOND HAND WALL CLOCK

• Quartz movement and continuously moving second hand for silent operation.
• The timeless design makes it a reliable wall clock, which can be used in any commercial and non-commercial spaces.
• This plastic-cased wall clock has been architected with a shatterproof front lens to protect the Clock in case of the unexpected fallout.

440-9568 WHITE, 300MM DIA

VISIBLE AND PARTIALLY LAMINATED

• Partially laminated write – on label
• Text can be written or typed on label
• Leaves checkboard pattern when removed
• High-quality printing on the labels which is ideal for conformance labelling to Safety and Quality standards

496-401 BLK WRITE-ON LABEL 'CALIBRATED',40X15MM (PACK OF 120)

SILVER WALL CLOCK

• LCD digit heights 52 and 24 mm
• Wall Clock dimensions 220x2 50x2 3 mm
• Digital monitor displays hours, minutes, calendar and the temperature in both C/F

811-1820 RS LCD CALENDAR CLOCK

A5 WIREBOUND SEMI-RIGID STATIONERY KIT

• This kit contains:
  1 x Aluminium Ballpoint Pen
  1 x A5 Notebook
  1 x pack of 75 x 75 mm Sticky Notes

201-3728

FOOD & BEVERAGE INDUSTRY
CABLES & CONNECTORS

High quality, extensive range of cables & associated products from leading global brands.

Cables & Connectors Highlights

Browse and shop the entire range of cables & connector products online at **sg.rs-online.com**.

LPC C FG STAINLESS STEEL FOOD FITTINGS

- Flexicon LPC (C-FG) conduit fitting is Stainless Steel with an external thread suitable for LPC conduits. This fitting has a Polyester elastomer compression face and nut seal.
- External thread
- High tensile strength
- Corrosion resistant
- For use with all LPC conduits
- Temperature Range: -50°C to +135°C
- Type of Protection: IP66, IP67, IP68 (2 bar) and IP69 with Stainless Steel food grade fittings

FLEXICON
FLEXIBLE CONDUIT SOLUTIONS

124-0060	16MM M16	LPC16-M16-C-FG
124-0062	25MM M25	LPC25-M25-C-FG
124-0061	20MM M20	LPC20-M20-C-FG

ENERGY CHAIN® - E2

- Chains for various applications
- Large pins for long service life;Smooth interior for long cable life
- Dirt-repellant exterior (fully enclosed tubes only)
- Tapered insertion point for easy assembly
- Chain supplied in 1 m lengths

igus®

720-2745	116X50MM, RAD 100MM	2600.10.100
720-2749	91X50MM RADIUS 75MM	2600.07.075

HIROSE U.FL SERIES ULTRA SMALL COAXIAL CABLE ASSEMBLIES

- Supports high frequencies of up to 6 GHz
- Terminated with ultra fine coaxial cable for secure and stable connection
- Tactile click for mating assurance
- Range of mated heights can be achieved
- Available as single and double ended cable assemblies
- Wide range of cable lengths and plug sizes

HRS HIROSE ELECTRIC EUROPE B.V.

685-1047	1.37MM DIA,300MM L,TIN (PACK OF 5)	U.FL-2LP-088K1T-A-(300)

M12 CORDSETS FOR THE FOOD INDUSTRY

- M12 Single ended sensor cordset
- Female right angle connector
- LED operation and function indicator
- Self locking threaded joint and moulded cable
- Hexagon screw-in stainless steel, especially designed for used in food processing equipment

lumberg automation
A BELDEN BRAND

508-5292	FEMALE, LED, 25M	18027 PRKWT/LED P 4-07/25 M
508-5286	FEMALE, LED, 10M	18026 PRKWT/LED P 4-07/10 M

DURASLEEVE WIRE MARKING CARRIERS

- DuraSleeve® Wire Marking Carriers, are a transparent tube (carrier) with a label pocket to insert a printed label
- Available in various sizes

BRADY.

447-660	DMC-2.5/5-15	DMC-2.5/5-15
447-664	DMC-1.3/3-30	DMC-1.3/3-30
447-670	DMC-2.5/5-30	DMC-2.5/5-30
447-654	DMC-1.3/3-15	DMC-1.3/3-15

Browse thousands more products online **sg.rs-online.com/food**

Metal detectable plastic cable accessories

Detectable plastic parts can reduce the risk of costly contamination for food and beverage

Undetected contamination of a production batch with a foreign object is a costly concern for any food or beverage manufacturer. To help control the risk from stray bits of plastic around the processing of foodstuffs, HellermannTyton manufactures cable accessories from special high-grade metal detectable plastic resin.

Magnetic plastic?

Plastic resin with metal content can be detected by the metal detection and x-ray equipment commonly installed in hazard control points. The even dispersion of metal particles throughout these plastic products means that even tiny fragments of cable ties, fixing mounts, ID tags or cable covers, which might be cut or dropped during maintenance, can be reliably detected.

The metal particles are embedded in the special high grade plastic resin. Consequently, there is no surface corrosion in humid production environments. The blue colour added to the compound also makes this plastic visually distinctive when compared with the majority of foodstuffs and liquids. Alternative colours are available on request.

In response to scenarios frequently encountered by production plant engineers, HellermannTyton's cable management accessories include two types of cable ties, one of which is releasable and reusable and two types of screwable cable tie mounts in various sizes. Printable TipTag markers and two types of spiral wrap cable covers in different dimensions complete this portfolio of detectable plastic products.

Better safe than sorry

The special materials HellermannTyton uses to manufacture its products for food and beverage processing are of the highest quality. HellermannTyton's detectable plastic products with metal content are free of Bis(2-ethylhexyl) phthalate (DEHP), considered to be dangerous to health.

MCTPP SERIES METAL DETECTABLE CABLE TIES

- Magnetic and X-Ray detectable
- Will float to the surface of most liquids, allowing them to be easily removed
- High chemical resistance
- Remain flexible and elastic in high temperatures
- Metallic compound dispersed throughout the entire body of the tie
- Coloured to assist in detection
- Used as part of HACCP process
- Self-extinguishing (UL94 HB rating)

891-9523 200MM X 4.6 MM, MCT SERIES (PACK OF 100)	**111-0166**6 MCTPP50R-PPMP-BU (100)
891-9536 387MM X 7.6 MM, MCT SERIES (PACK OF 100)	111-01668 MCTPP120R-PPMP-BU (100)
891-9511 100MM X 2.5 MM, MCT SERIES (PACK OF 100)	111-01664 MCTPP18R-PPMP-BU (100)
891-9527 390MM X 4.6 MM, MCT SERIES (PACK OF 100)	111-01667 MCTPP50L-PPMP-BU (100)

HellermannTyton

M8/M12 CONNECTORS

TE's M8/M12 connectors continues to fill the ongoing needs for sensor connection in Industrial Machinery and Factory Automation. A connection standard for many years, these products also find applications outside of their traditional industries where a compact reliable connection system with environmental protection is required. TE's M8/M12 connector portfolio includes A, B, D, S, T, and X-coded (up to 10 Gb/s) versions to serve various customer needs.
The connectors are also available in shielded and unshielded versions, to support Gigabit Ethernet applications.

M8/M12 – THE CODINGS

A-coding: Actuator-sensor plug connections for DeviceNet, IO link and Profibus

B-coding: Fieldbus connections for Profibus and Interbus

D-coding: Industrial Ethernet, Profinet, Ethernet/IP and EtherCat

S-coding: Motor, Frequency-convertors, motor operated switches, PSUs for Power, 620 V, 12 A

T-coding: Fieldbus comp, passive distribution boxes, motors, PSUs for Power, 63 V, 12 A

X-coding: Cat6A, high-speed 10Gbit rugged industrial Ethernet applications IEC 61076-2-109

Ambient temperature for M8:
-40 °C to 85 °C
Ambient temperature for M12:
-40 °C to 85 °C
Current rating:
4 and 5 pins: 4 A per pin
8 and 12 pins: 2 A per pin
IP rating: IP67/IP68

As specifications vary for different parts, please refer to your TE contact for detailed information.

Application Specifications for M8 M12 Connectors and Cable Assemblies:
114-32127, 114-137008, 114-137144

Product Specifications:
Connectors: 108-3641, 108-19483,
                  108-106140
X-coded: 108-137008
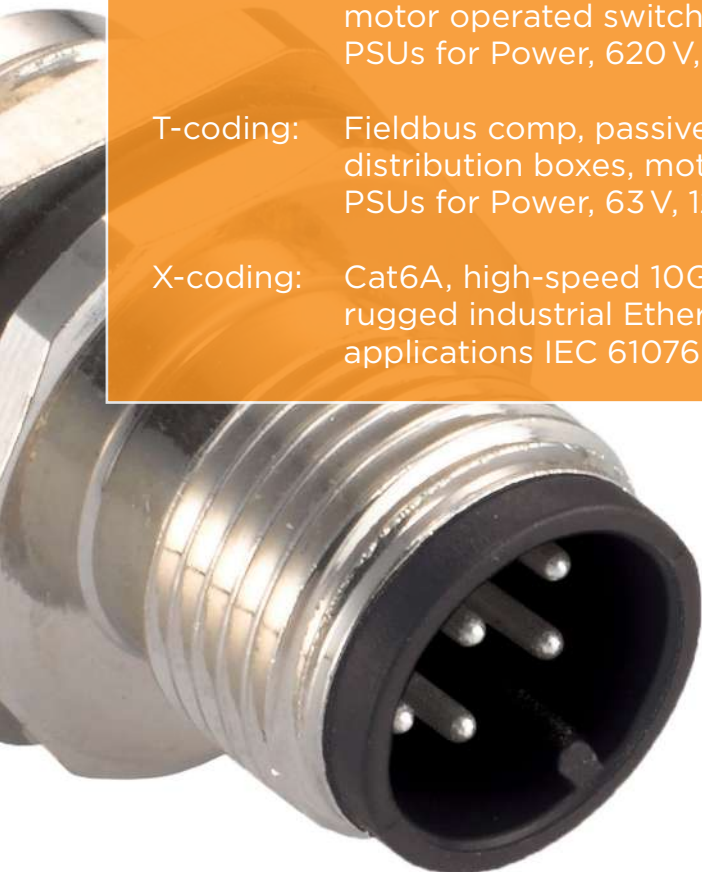
Size	Pins	Rated	Maximum Current per pin	Polution grade
M8	3	60 V	4 A	3
M8	4	30 V	4 A	3
M12	3	250 V	4 A	3
M12	4	250 V	4 A	3
M12	5	125 V	4 A	3
M12	8	60 V	2 A	3
M12	12	30 V	2 A	3

≡TE connectivity
AUTHORIZED DISTRIBUTOR

HE CABLE HOODS

- Hoods are made from aluminium alloy casting and available in top, angled or side entry. Hoods provide IP65 sealing when fitted.,PG variants are supplied complete with cable sealing glands.
- Available in 6, 10, 16, 24, 40 and 64 way.,
- Rated to 380V a.c. or 450V d.c. and suitable for Group C applications.

≡TE connectivity
AUTHORIZED DISTRIBUTOR

300-3800	16WAY SIDE ENTRY,PG21 SIZE6	1-1102289-6
300-3787	10WAY SIDE ENTRY,PG16 SIZE4	1-1102259-6

HE INSERTS

- Male and female inserts will fit either cable hood housings or base housings.
- The insrts is supplied without contacts.
- Each insert has a separate earth contact.,If 32 way connectors are required both the 1-16 pole (16 way) and 17-32 pole inserts should be purchased.
- These inserts will fit alongside each other in size 10 HE housing.

≡TE connectivity
AUTHORIZED DISTRIBUTOR

300-3715	16 WAY SCREW TERMINAL FEMALE	1-1103639-1
300-3709	10 WAY SCREW TERMINAL FEMALE	1-1103637-1
300-3658	10 WAY SCREW TERMINAL MALE	1-1103636-1

HE THROUGH PANEL HOUSINGS

- Bases made from aluminium alloy casting and in top entry only.,
- Supplied with panel sealing gaskets.

≡TE connectivity
AUTHORIZED DISTRIBUTOR

300-3967	10 WAY THROUGH PANEL BASE,SIZE 4	1-1102271-1

HE/HD SURFACE MOUNT HOUSINGS

- All surface mount bases are made of case aluminium alloy.
- PG variants are supplied complete with cable gland.
- Available in 6, 10, 16, 24, 40 and 64 way.,
- Rated to 380V a.c. or 450V d.c. and suitable for Group C applications.

≡TE connectivity
AUTHORIZED DISTRIBUTOR

300-4005	6 WAY BASE,PG16 SIZE 3	1-1102248-2
300-4033	16 WAY BASE,PG21 SIZE 6	1-1102298-1

FLEXLITE HIGH TEMPERATURE UL WIRE

- UL Style 3557, UL recognised component
- Operating temperature range of -55°C to +200°C
- 600 V rating
- Meets requirements of VW-1 flammability
- Flexible and tough
- Thin wall insulation
- Lightweight and small easy to handle

≡TE connectivity
AUTHORIZED DISTRIBUTOR

253-2098	1.00SQ.MM	FLHTC0311-1.00-9

STRAIGHT M12 TO STRAIGHT ARISO CONTACTLESS CONNECTOR

- Reverse polarity protection for power and data transmission
- Protection against over heating
- Will automatically switch off in the event of a metal foreign object between transmitter and receiver
- Interchangeable Dynamic Pairing between ARISO couplers
- M30 x 80mm sized receiver
- IP67 Ingress protection

≡TE connectivity
AUTHORIZED DISTRIBUTOR

906-0925	12 CORE 3M CABLE, PLUG	2287598-3
906-0929	10 CORE 3M CABLE, PLUG	2287598-4

UNIVERSAL CRIMP TOOL FOR DEUTSCH CONNECTORS

- Adjusting screw includes jam nut
- Compatible with a wide range of Deutsch connector crimps
- Lightweight and comfortable to use

DEUTSCH

425-973	HDT-48-00

SOLDER SLEEVES AND KIT

- Solder Sleeves provide insulated, environmentally sealed; strain-relieved soldered connections
- Temperature range -55°C to +125°C
- Terminate bare or tin plated conductors
- Supplied in a storage case with locking lid
- Refills available - see Solder Sleeves, as well as other High-Spec Solder Sleeves and Wire to wire Splices.

≡TE connectivity
AUTHORIZED DISTRIBUTOR

542-5583 SOLDERSLEEVE KIT	B-155-MIXT-01

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CGAT ADHESIVE LINED HEATSHRINK TUBING 3:1

- High strength bonding
- Flame retardant jacket
- Polyolefin material – commonly used insulating material, flexible and durable
- Standard black in colour
- Operating temperature range of -30 to +80 °C
- Minimum shrink temperature: +80 °C
- Supplied in lengths of 1.2m

157-3818	12MM	CGAT-12/4-0
157-3824	18MM	CGAT-18/6-0
157-3903	24MM	CGAT-24/8-0
157-3789	3MM	CGAT-3/1-0
157-3830	40MM	CGAT-39/13-0
157-3795	6MM	CGAT-6/2-0
157-3802	9MM	CGAT-9/3-0

RNF100 CLEAR HEATSHRINK TUBING 2:1 (1.2M LENGTHS)

- Excellent all round performance
- Shrink ratio 2:1
- Available in a wide range of sizes and colours
- Flame retardant
- Flexible
- 1.2m lengths

170-6563	1.2MM BORE	RNF-100-3/64-X-STK
170-6642	12.7MM BORE	RNF-100-1/2-X-STK
170-6658	19MM BORE	RNF-100-3/4-X-STK
170-6664	25.4MM BORE	RNF-100-1-X-STK
170-6591	3.2MM BORE	RNF-100-1/8-X-STK
113-2568	38MM BORE	RNF-100-1-1/2-X-STK

HT-200 HEAT-SHRINK TUBING

- Tough, flexible, thin wall insulation
- Provides excellent electrical insulation
- 2:1 shrink ratio for all standard sizes
- High temperature performance that meets or exceeds military and industrial standards
- Resistance to most industrial solvents, fuels and chemicals
- High flame resistance

848-9142	1/2 1M	HT-200-1/2-X-STK-CS-34128
848-9136	3/16 11 LENGTH	HT-200-3/16-X-STK-CS-34128

SRFR HEATSHRINK TUBING (SHRINK RATIO 1.7:1)

- A highly flexible, flame retarded, grey silicone rubber tubing with an excellent balance of physical and electrical properties
- Displays outstanding physical strength, resists extreme heat shocks and exhibits good thermal insulation
- Temperature rating -75 to +200°C"

288-5112	10.0MM	SRFR-10/6-8-1M
288-5128	15.0MM	SRFR-15/9-8-1M
288-5083	2.9MM	SRFR-2.9/1.7-8-1M
288-5099	4.9MM	SRFR-4.9/2.9-8-1M
288-5106	7.8MM	SRFR-7.8/4.6-8-1M

SRFR HEATSHRINK TUBING (SHRINK RATIO 1.7:1)

- Easy to store
- Easy to dispense
- Well suited for repairs
- Adhesive lined tubings
- Wide variety of sizes
- RoHS compliant
- 3:1 shrink ration
- Operating temperature range: -30 °C to +80 °C

364-1480	CGAT ADHESIVE LINED REFILL,18/6MM	CGAT-R-18/6-0

ATUM - MOISTURE PROOF SLEEVING 3:1 OR 4:1

- Provides excellent environmental sealing for electrical components, wire splices, cable jackets & harness breakouts
- High strength bonding
- Medium walled for increased mechanical protection
- Flame retardant jacket
- Operating temperature range -55°C to +110°C

316-1580	12-4MM I/D	ATUM-12/4-0
316-1596	19-6MM I/D	ATUM-19/6-0
316-1568	6-2MM I/D	ATUM-6/2-0
316-1631	8-2MM I/D	ATUM-8/2-0

FLAME RETARDANT HEATSHRINK TUBE, HEATSHRINK TUBING 2:1 (REEL)

- Heat shrink ratio of 2:1
- Shrinks at low temperature
- Ideal for delicate or temperature sensitive equipment
- Excellent physical and electrical properties
- Very flexible polyolefin tubing
- Highly flame retardant
- Free from PBBs as well as PBBOs and PBBEs
- Operating temperature -55°C to +135°C
- Heat Shrink temperature: 70°C"

252-7721	13.7MM	VFRS-1/2-0
252-7737	19.0MM	VFRS-3/4-0
252-7670	2.4MM	VFRS-3/32-0
252-7743	25.4MM	VFRS-1-0
252-7686	3.4MM	VFRS-1/8-0
252-7692	4.8MM	VFRS-3/16-0
252-7709	6.4MM	VFRS-1/4-0
252-7715	9.5MM	VFRS-3/8-0
316-1108	63.5MM	HRSR-250FR-10

CLEAR TFER HEAT SHRINK TUBING

- Semi-rigid tubing made from PTFE
- Ideal for use in high temperatures
- Thin wall
- Clear tubing
- Highly flame retardant
- Excellent resistance to chemicals and solvents
- High mechanical strength
- Low coefficient of friction
- Heat shrink ratio of 3.2:1 meaning when heated this tubing shrinks to just over a third of its original diameter
- Operating temperature -67°C to 250°C
- Heat shrink temperature: 330°C
- Supplied in lengths of 1.2m

170-6311	12.7MM I/D	TFER-1/2-X
170-6333	25.4X7.1MM	TFER-1-X
170-6282	3.2MM I/D	TFER-1/8-X

HTAT - MOISTURE PROOF SLEEVING 4:1

- Semi flexible polyolefin tubing
- Flame retardant jacket
- Heat shrink ratio of 4:1 meaning when heated this tubing shrinks to a quarter of its original diameter, making it perfect for awkward shaped connectors
- High shrink ratio ensures the tube will be able to fit over larger connectors and still ensure environmental sealing
- High strength bonding due to inner adhesive lining
- Operating temperature -55°C to 110°C
- Heat shrink temperature: 80°C
- Supplied in lengths of 1.2m*

344-0625	12-3MM I/D	HTAT-12/3-0-STK
344-0603	4-1MM I/D	HTAT-4/1-0-STK
344-0619	8-2MM I/D	HTAT-8/2-0-STK

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6000 SERIES CIRCULAR POWER CONNECTORS

- 2 - 22 Contacts
- Plastic or Metal Housing
- IP66, IP67, IP68 & IP69K protection
- Secure, quick mating / release
  cULus, UL, VDE Approvals

BUCANEER SERIES IN-LINE CONNECCTORS

- Screw termination
- Straight body orientation
- Cable acceptance ranges between 6mm and 8mm
- Easy assembly, no special tools required
- IP68

765-9652	FLEX CONNECTOR,2 WAY PIN CONTACTS	PXP6010/02P/ST/0507
765-9757	CHASSIS CONNECTOR,2W,SOCKET CONTACTS	PXP6012/02S/ST
765-9775	CHASSIS CONNECTOR,16W,PIN CONTACTS	PXP6012/16P/CR

483-966	6WAY INLINE CABLE COUPLER SOCKET,3A	PX0740/S/07

4000 SERIES CABLE CONNECTORS

- Mates with flex cable and panel mount versions
- In-Line cable connection
- Contacts supplied separately

900 SERIES CIRCULAR POWER CONNECTORS

- 32A, 600V ac/dc max rating
- 2, 3, 4, 5, 7 & 10 contacts
- IP66, IP67, IP68 & IP69K protection
- Single or 3 phase applications
- CCC, UL, CSA & VDE approvals

BUCCANEER 900 SERIES FEMALE PANEL MOUNT CONNECTORS

- Water and dustproof
- Leading earth pin
- Scoop proof contacts

912-4868	3 POLE MALE	PXP4010/03P/5560
912-4950	3 POLE FEMALE	PXP4011/03S/5560
912-4931	12 POLE FEMALE	PXP4010/12S/6065
912-5072	12 POLE FEMALE, REAR	PXP4013/12S

344-3999	3 WAY	PX0911/03/P
841-8932	10 WAY	PX0911/10/P
344-4021	5 WAY	PX0911/05/P

344-4223	4 CONTACTS	PX0931/04/S
344-4245	5 CONTACTS	PX0931/05/S

PANEL MOUNTING SOCKET / COUPLER

- Supplied cable glands accommodate cable diameters 3.5 to 8mm
- Shielded connectors maintain required screening
- Overall diameter 38.1mm,
- Overall length 77.5mm

BUCCANEER STANDARD SEALED POWER CONNECTORS

- IP68
- UL94HB Housing
- Insulation Resistance of >104 MΩ @ 500 V dc

BUCCANEER SERIES 2-POLES CIRCULAR FLEX CABLE CONNECTORS

- Screw termination
- Straight body orientation
- Easy assembly, no special tools required

468-6232	PANEL MOUNTED COUPLER	PX0833
468-6226	CABLE CONNECTOR	PX0834/B

275-5342	SCREW TERMINAL PLUG	PX0745/P
275-5364	SCREW TERMINAL SOCKET	PX0745/S
275-5392	INLINE COUPLER PLUG	PX0746/P
275-5409	INLINE COUPLER SOCKET	PX0746/S

483-893	MALE	PX0736/P
489-532	FEMALE	PX0736/S

The real recipe for success for Data, Signal and Power:
the Han® F+B Inserts.

The Han® F+B is the first connector for the food industry that can be configured with 25 different inserts. It can be used to transfer bus systems, signals or power with contacts up to 40 A.

HARTING HAN F+B FOOD AND BEVERAGE CONNECTOR SYSTEM

• Consisting of housings, hoods, inserts and covers has been designed specifically for use within the demanding food and beverage industry

201-8862	INSERT MALE, 4 CONTACT, 20A	
201-8864	INSERT FEMALE, 4 CONTACT, 20A	09155123102
885-6097	INSERT FEMALE, 4+4 CONTACT, 16A	09155083101
885-6088	INSERT MALE, 4+4 CONTACT, 16A	09155083001
173-7756	INSERT FEMALE, 4+4 CONTACT, 16A	09155083101
173-7755	INSERT MALE, 4+4 CONTACT, 16A	09155083001
885-6066	BULKHEAD HOUSING	09155030301
885-6075	BULKHEAD HOUSING	09 15 503 0901
885-6078	PROTECTIVE COVER FOR USE WITH HOUSING BULKHEAD MOUNTING	09 15 503 5401
885-6072	PROTECTIVE COVER FOR USE WITH HOOD	09 15 503 5411
201-8865	CONNECTOR HOOD	19 15 503 1701

HOOD CABLE PLUG + MALE INSERT

• Two-part packs that provide towards the assembly of Harting Han E® metal-bodied cable plugs, cable coupling hoods, bulkhead/panel mounting housings, and surface mounting housing sockets.,Screw terminal connection.,
• Each pack contains a hood or housing, and male or female insert.,
• All the individual components are available separately from within the relevant Ranges of inserts, hoods, and housings.,All are rated at 450 – 500V, and 16A,
• Suitable cable glands are available separately

492-5458	6 WAY, 16.0A, 500.0 V	09330062601+19300061540

HAN E HEAVY DUTY POWER CONNECTOR INSERT

• Han Thermocouple insert connectors for temperature measurement conductors, ideal for use within injection moulding machines.
• These inserts allow mixed loading of thermocouple crimp contacts and standard contacts within one insert.

842-7756	10 CONTACTS, 16A, FEMALE	09330102791
512-5261	46 CONTACTS, 16A, MALE	09320463001

HAN A SIZE 3 A STANDARD METAL HOODS AND HOUSINGS

• Slim, space saving design;
• Robust diecast zinc construction;
• Locking levers for a secure connection;
• Range of mounting options and cable entry angles;
• IP67 protection using seal screw

473-1714	M20 METRIC TOP ENTRY HOOD	19200031440
181-0729	STRAIGHT PANEL MOUNT HOUSING	09200030301

HAN A ® INSERTS

• Slim construction
• Poles: 3-16 (screw connection)

181-0870	3P+E SOCKET INSERT,10A 230/400V	09200032711

HAN E® INSERTS

• Poles: 6-48 (screw connection – wire csa 2.5mm²;
• The 32 and 48 pole versions require two contact inserts per connector half; a standard insert numbered '1 to 16' or '1 to 24' pole insert (m) or (f) together with one numbered '17 to 32' or numbered '25 to 48' insert (m) or (f).;

114-8175	6P+E PLG INSERT,16A 400-500VAC	09330062601

SKINTOP®

ECOLAB® approved glands for food & beverage

Tired of worrying about long term water ingress?

Put your trust in SKINTOP, tested for every possible application.

LAPP test their SKINTOP glands for many different application. IP66 for water spray, IP67/68 for immersion, and IP69K for high pressure water blasting. LAPP have you covered from basic IP rated glands, to high performance FDA & Ecolab approved glands for food and beverage areas.

- Corrosion-resistant
- Sea water-resistant
- Smooth surfaces
- Compact design
- Variable clamping ranges

LAPP

ÖLFLEX® ROBUST 210

- ECOLAB® certified harsh environment control cable.
- Outstanding UV, ozone, organic oil & chemical resistance.
- 300-500V rated with number coded cores

ÖLFLEX® CLASSIC 115 CY

- Screened PVC control cable with small outer diameter.
- EMC compliant with tinned copped braiding.
- 300-500V rated with number coded cores

ÖLFLEX® SERVO FD 796 CP

- Highly flexible screened servo cable with PUR outer sheath.
- Extended line performance - long travel lengths or high acceleration.
- 600-1000V rated with a temperature range from -40°C to +90°C

⊛ **LAPP**

800-3271	3 CORE+EARTH 1MM	0021916
800-3287	2 CORE+EARTH 1.5MM	0021929
800-3265	6 CORE+EARTH 0.75MM	0021904
800-3303	4 CORE+EARTH 2.5MM	0021951

⊛ **LAPP**

444-0632	6 CORE+EARTH 1.5MM	1136307
444-0525	2 CORE+EARTH 1MM	1136203
455-0212	3 CORE+EARTH 0.75MM	1136104
444-0604	4 CORE+EARTH 1.5MM	1136305

⊛ **LAPP**

800-3221	3C+E 1.5MM + 2X(2X0.75MM)	0027969
800-3192	3C+E 1.5MM + (2X1.5MM)	0027959
800-3195	3C+E 2.5MM + (2X1.5MM)	0027960

ETHERLINE® CAT.6A

- Industrial Ethernet cable Cat.6A for fixed installation.
- PUR halogen free outer sheath.
- For PROFINET applications with 4 pairs

SKINDICHT® SM-M INOX

- Stainless steel metric counter nuts.
- Stainless steel 303.
- Temperature range -60°C to +200°C

SKINTOP® INOX SC

- Stainless steel version with compact design.
- Low-resistance screen contact, optimum EMC protection.
- Wide, variable clamping ranges

⊛ **LAPP**

807-9587	4 X 2 X AWG22/1	2170465

⊛ **LAPP**

796-0069	M16	52032615
796-0063	M20	52032625
796-0072	M25	52032635
796-0075	M32	52032645

⊛ **LAPP**

136-8526	M16	53806722
136-8527	M20	53806724
136-8528	M25	53806726
136-8529	M32	53806728

EPIC® LS1 SERIES

- Circular connectors for servo motors & power supply.
- High power at smallest installation space.
- EMC-optimised design.

EPIC® SIGNAL M23 SERIES

- Circular connectors for servo motors & encoders.
- Robust metal connector with integrated EMC cable gland.
- Inserts included.

EPIC® H-B SERIES KITS

- Flexible & robust 16A industrial connectors.
- IP65 rated.
- Numerous additional connector kit options available online

⊛ **LAPP**

727-6235	ANGLED 6 PIN	24420058
219-138	FRONT MOUNTED 6 PIN	76003000
727-6232	ANGLED 8 PIN	24420056
219-059	FRONT MOUNTED 8 PIN	76004000

⊛ **LAPP**

218-949	D6 CONNECTOR 17 CONTACTS	44420037+73028500
219-144	F6 COUPLER 12 CONTACTS	44420040+73002720
218-983	F6 COUPLER 9 CONTACTS	44420040+73002744
219-453	D6 CONNECTOR 9 CONTACTS	44420037+73002744

⊛ **LAPP**

396-1532	24 WAY	10102000+10196000+10197000
396-1475	6 WAY	19012000+10003000+10191000
396-1526	16 WAY	10072000+10194000+10195000
486-735	10 WAY	10046000+10193000+12954400

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EQUIPTMENT WIRES

RANGE	SHEATH	AWG	OUTER DIAMETER	VOLTAGE RATING	COLOUR	REEL LENGTH
British Standard	PVC	17 → 24	1.2 → 2.65mm	300 → 1000V	Black, Blue, Brown, Green, Grey, Orange, Pink, Red, Violet, White, Yellow, Green/Yellow, Yellow/Green	100m → 500m
Tinned Copper Wire	PVC	18 → 24	1.58 → 2.79mm	300 → 600V	Black, Blue, Green, Red, White	100m
DEF STAN	ETFE	12 → 24	1.15 → 2.99mm	600V	Black, White	100m
Harmonised	PVC	13 → 20	2.4 → 4.1mm	300 → 750V	Black, Blue, Brown, Grey, Red, White, Yellow, Green/Yellow	100m
UL Standard	PVC, PTFE, MPPE	12 → 28	0.9 → 4.2mm	150 → 600V	Black, Blue, Brown, Green, Grey, Orange, Purple, Red, White, Yellow	100m
Tri-Rated	PVC	4 → 22	2.6 → 10.6mm	600 → 1000V	Black, Blue, Brown, Dark Blue, Green, Green/Yellow, Grey, Light Blue, Mid-blue, Orange, Pink, Purple, Red, White, Yellow	100m

CONTROL CABLES

RANGE	SHEATH	NO OF CORES	AWG	OUTER DIAMETER	VOLTAGE RATING	SCREEN/SHIELD	COLOUR	REEL LENGTH
CY	PVC	2 → 18	13 → 26	4.1 → 15.6mm	300 → 500V	Braid, Tinned Copper Braid	Grey	50 → 100m
SY	PVC	2 → 25	9 → 18	7.3 → 19.7mm	300 → 500V	Braid, Galvanised Steel	Grey	50m
YY	PVC	2 → 15	9 → 24	3.7 → 20.8mm	300 → 500V	Galvanised Steel	Grey	25 → 100m

POWER CABLES

RANGE	SHEATH	NO OF CORES	AWG	OUTER DIAMETER	VOLTAGE RATING	COLOUR	STANDARDS AVAILABLE	REEL LENGTH
Mains Power	PVC, Rubber Silicone, TPE	1 → 7	9 → 20	3.2 → 19.1mm	300 → 1000V	Black, Blue, Brown, Green/Yellow, Grey, Orange, Red, Red/Brown, White, Yellow	EN 50525-2-11, EN 50525-2-21, H03VV-F, H03VVH2-F, H05RR-F, H05VV-F, H05Z1Z1-F, H07BN4-F, H07RN-F, H07V-K, H07ZZ-F	25 → 100m
Armoured Cables (SWA)	PVC+SWA (Steel Wire Armoured)	2 → 5	5 → 15	12.6 → 26.3mm	600 → 1000V	Black	BASEC	50m
Conduit & Trunking Cables	LSZH, PVC	1	2 → 15	2.7 → 11.3mm	450 → 750V	Black, Blue, Brown, Green/Yellow, Grey, Orange, Purple, Red, White	H07V-R, H07V-U, H07Z-R, H07V-R, H07V-U, H07Z-R	50 → 100m
Multicore Industrial Cables	PE, PVC, XLPE	2 → 36	9 → 30	2.4 → 22.8mm	250 → 1000V	Black, Green Grey White	BASEC, Defence Standard 61-12 Part 4, Defence Standard 61-12 Part 5, Euroclass Eca	25 → 500m

COMMUNICATION CABLES

RANGE	SHEATH	NO OF CORES	AWG	OUTER DIAMETER	VOLTAGE RATING	COLOUR	STANDARDS AVAILABLE	REEL LENGTH
Twisted & Multipair Industrial Cable	PVC, LSZH (Shield: Foil, Tinned Copper Braid)	1 → 19 (pairs)	18 → 24	2.4 → 11.5mm	300 → 600V	Blue, Grey, White	CE, CSA Certified, CSA FT4, EN 2235, EN 2714-013, EU Low Voltage Directive 2006/95/EC, Euroclass Eca, FAR 25-869, RS 232, UL, UL 2919	50 → 500m

RANGE	SHEATH	CATEGORY	MAX BANDWIDTH	MAX TRASNMISSION SPEED AT 100M	SHIELD TYPE	COLOUR	CONNECTOR TYPE	REEL LENGTH
LAN Cables	PVC, LSZH, PE	Cat5, Cat5e, Cat6, Cat6a, Cat7, Cat7a, Cat8	250 → 2000MHz	10/100Mbps/100MHz (Cat5) 1Gbps/100MHz (Cat5a) 1Gbps/250MHz (Cat6) 10Gbps/500MHz (Cat6a) 10Gbps/600MHz (Cat7) 40Gbps/2000MHz (Cat8)	F/UTP, FTP, S/FTP, U/UTP, UTP	Black, Blue, Green, Grey, Orange, Purple, Red, White, Yellow	Unterminated, RJ45	1 → 500m

RANGE	CONDUCTOR TYPE	TERMINATION	COAX TYPE	OUTER DIAMETER	VOLTAGE RATING	COLOUR	IMPEDANCE	REEL LENGTH
Coaxial Cables	Solid, Stranded	Terminated, Unterminated, BNC, SMA, SMB, NCX, N	CT, KX, RF, RG, RGW, Twin RG, URM	1.1 → 10.8mm	170 → 1000V	Black, Brown, Green, Grey, White	50 → 93Ω	1 → 500m

TRI-RATED CABLE - 4 MM² CSA, 1 KV, 41 A

- High quality range of Tri Rated cables
- Voltage rating of 600 / 1000 V
- Class 5 flexibility
- A HR PVC (Heat Resistant PVC) insulation enabling the cable to be used in high temperature applications

811-1442	BLACK (100 METRE REEL)
906-2713	DARK BLUE (100 METRE REEL)
815-8611	PINK (100 METRE REEL)
811-1454	YELLOW (100 METRE REEL)

GREY PVC CAT5E CABLE

- Meets or exceeds all Cat5e standards
- 26 AWG with bare copper conductors
- Colour coded pairs for identification

812-4801	4 PAIR SHIELDED CAT5E FTP PATCH 100M

UNSCREENED MULTICORE CABLE

- 7/0.2 mm core strands
- High performing copper conductor
- 0.22 mm² CSA

660-4077	36 CORE, 7X02MM 100M

USB 2.0 MICRO B TO USB A USB CABLE, MALE TO MALE

- Allows easy connection of a mobile device to host computer or charger
- Reliable Hi-Speed connection
- Moulded connector

876-2403	1.2M, BLACK

4K - HDMI TO DVI-D CABLE

- Male-to-male cable
- 19-pin HDMI connector
- Maximum resolution of 4K

182-8879	2MTR

STAINLESS STEEL SADDLE CLAMP

- Strong and secure
- Corrosion resistant
- Easy to install

471-1300	S/STEEL CONDUIT DISTANCE SADDLE,20MM

AWG vs mm²

AWG NUMBER	CABLE CROSS SECTION IN MM2	OUTER DIAMETER Ø MM	CONDUCTOR RESISTANCE IN OHM/KM	MAX CURRENT AMP
1000 MCM	507	29.3	0.036	-
900	456	27.8	0.04	-
750	380	25.4	0.048	-
600	304	22.7	0.061	-
550	279	21.7	0.066	-
500	253	20.7	0.07	-
450	228	19.6	0.08	-
400	203	18.5	0.09	-
350	177	17.3	0.1	-
300	152	16	0.12	-
250	127	14.6	0.14	-
4/0	107.2	11.68	0.18	302
3/0	85	10.4	0.23	239
2/0	67.4	9.27	0.29	190
0	53.4	8.25	0.37	150
1	42.4	7.35	0.47	119
2	33.6	6.54	0.57	94
3	26.7	5.83	0.71	75
4	21.2	5.19	0.91	60
5	16.8	4.62	1.12	47
6	13.3	4.11	1.44	37
7	10.6	3.67	1.78	30
8	8.34	3.26	2.36	24
9	6.62	2.91	2.77	19
10	5.26	2.59	3.64	15
11	4.15	2.3	4.44	12
12	3.31	2.05	5.41	9.3
13	2.63	1.83	7.02	7.4
14	2.08	1.63	8.79	5.9
15	1.65	1.45	11.2	4.7
16	1.31	1.29	14.7	3.7
17	1.04	1.15	17.8	2.9
18	0.823	1.024	23	2.3
19	0.653	0.912	28.3	1.8
20	0.519	0.812	34.5	1.5
21	0.412	0.723	44	1.2
22	0.324	0.644	54.8	0.92
23	0.259	0.573	70.1	0.73
24	0.205	0.511	89.2	0.58
25	0.163	0.455	111	0.46
26	0.128	0.405	146	0.36
27	0.102	0.361	176	0.29
28	0.0804	0.321	232	0.23
29	0.0646	0.286	282	0.18
30	0.0503	0.255	350	0.14
31	0.04	0.227	446	0.11
32	0.032	0.202	578	0.09
33	0.0252	0.18	710	0.07
34	0.02	0.16	899	0.06
35	0.0161	0.143	1125	0.04
36	0.0123	0.127	1426	0.04
37	0.01	0.113	1800	0.03
38	0.00795	0.101	2255	0.02
39	0.00632	0.0897	2860	0.02
40	-	-	-	0.01

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POWER CONNECTORS

ENCLOSURES

CABLES, CONNECTORS & CRIMPING TOOLS

NETWORK TEST & MEASUREMENT

WIRE STRIPPERS
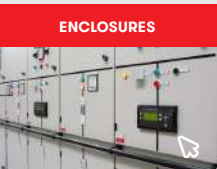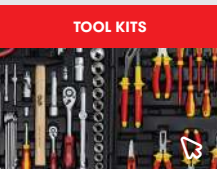
BLUE METAL-DETECTABLE NYLON 66 CABLE TIES

- Industry-standard blue colour for easy visual identification
- Metal powder particles offer full magnetic and x-ray detection, even if parts have been trimmed to fit

172-1766	150X3.6MM BLUE
172-1769	RELEASE 250X4.5MM BLUE
172-1767	400X4.6MM BLUE
172-1765	200X4.6MM BLUE
172-1768	380X7.6MM BLUE

NYLON NON-RELEASABLE CABLE TIES

- High quality
- Suitable for a multitude of uses
- Easy to thread

233-499	100 X 2.5, PACK 1000
233-493	380X7.6MM, PACK 100
233-487	300X4.8MM, PACK 100
233-471	203X4.6MM, PACK 100

CABLE TIE MOUNT NYLON 66

- Fast installation
- Strong adhesive base
- Simple cable mounting - provides secure fastening
- Available in black and natural and comes in a range of sizes
- Self-extinguishing UL 94 V-2

811-1726	CABLE TIE MOUNT 19.5X19.5 BLACK NYLON 66

ZERO HALOGEN HEATSHRINK TUBING KIT

- Highly flame retardant with a flame temperature index of over 350°C
- Totally halogen free
- Very low smoke, meets LUL requirements

397-4263	2:1 SHRINK RATIO

PORTABLE HEAT SHRINK KIT

- Portable heat shrink kit consisting of a range of high-quality heat shrink tubing
- Includes range of colours, (including harmonised colours) and diameters to suit a range of different applications

487-3852	2:1, 3:1 SHRINK RATIO

HEAVY DUTY CABLE PROTECTORS

- Weather and skid proof
- Black base and yellow cover provide good visibility
- High-strength cable groves, can withstand up to 20 tons per axle

136-5423	H/D CABLE PROTECTOR DUAL 2 CHNL 32/38MM

ADAPTABLE BOX ENCLOSURE

- IP66 rating for protection against dust and powerful water jets
- IP69K rating for protection against high-pressure jets up to +80°C

121-9695	220X100X85
121-9694	160X100X85
121-9693	100X100X85
121-9691	100X100X50
121-9692	160X100X50
121-9696	160X160X85

OPEN SLOT PVC

- Cable protection
- Slotted construction
- Significantly lower fire risk, due to self-extinguishing nature

758-9276	STANDARD 8MM 25WX60H 2M
758-9210	NARROW 4MM 25WX80H X2M
758-9285	STANDARD 8MM 25WX80H 2M
758-9282	STANDARD 8MM 40WX60H 2M
758-9294	STANDARD 8MM 60WX40H 2M
758-9216	NARROW 4MM 25WX60H X2M
879-3741	NARROW 4MM 40WX60H X1M
758-9279	STANDARD 8MM 25WX30H 2M
879-3738	STANDARD 8MM 40WX80H 1M
879-3744	STANDARD 8MM 60WX80H 1M

EMPTY CABLE REEL

- Features a removable side flange that you can cut to accept panel-mount connectors
- Mounted on a rugged tubular steel frame that has a friction brake with an integral winding handle

379-3727	YELLOW PLASTIC AUDIO CABLE DRUM,240MM

RS PRO

METAL BACKSHELL PANEL MOUNT CONNECTORS

- Multipole audio/video connectors manufactured for professional use.
- The 'AXR'/'XLR' compatible connectors are precision made with zinc die-cast bodies and silver-plated, solid brass turned contacts
- A benefit of these connectors is the 'squeeze' release clip, which enables plugs and sockets to be unplugged quickly by means of a simple push-down device.

548-9105 3 WAY

MALE FIELD RJ45 CONNECTOR

- Shielded male RJ45 connector
- IP68 waterproof rating
- Suitable for a temperature range of -40°C to +80°C

111-6743 RJ45 FULL METAL C3 FIELD INSTALLABLE

INSULATED FRENCH COLOUR CODED BOOTLACE FERRULES

- Nylon insulated collar for reduced leakage, creepage and gas intrusion
- Tin plated copper tube for excellent conductivity
- Crimped terminal can be repeatedly inserted and removed without degrading end of the wire

458-724	GREY,8MM PIN
458-695	BLUE,8MM PIN
458-702	RED,8MMPIN 1MMSQ.
458-718	BLK,1.5MMSQ. WIRE

BRASS CABLE GLAND WITH LOCKNUT

- Completely sealed against dust
- Excellent water resistance
- Locknut and seal supplied

831-9062 PG36, IP68, 22-32MM

IP68 METRIC DOME TOP GLAND

- Metric threaded
- Completely sealed against dust
- Excellent water resistance
- Black and white versions available
- Made with high quality Nylon 66"

669-4670	M32
669-4689	M40
669-4676	M25
669-4667	M16

IP68 METRIC DOME TOP GLANDS

- Metric threaded
- Completely sealed against dust
- Excellent water resistance

669-4654	M12, 3-6.5MM
669-4660	M20, 4-9MM
669-4664	M20, 6-12MM
669-4673	M20, 10-14MM
669-4686	M63, 34-44MM

COUPLER CABLE CONDUIT FITTINGS

- Coupler cable conduit fitting
- Nominal conduit diameter of 25 mm
- Corrosion-resistant 316 stainless steel material
- Satin finish
- IP67 rating for protection in 1 m of water for up to 30 minutes

471-1350	25MM
471-1344	20MM

CAT.5E INLINE COUPLERS RJ45 ADAPTORS

- Cat5e RJ45 coupler
- 8P8C socket to 8P8C socket
- 50µ gold plated contacts
- Wired straight contact 1 to contact 1, etc.
- For shielded twisted pair (STP) cables and patch leads
- Meets C5e EIA/TIA 568B Standard
- Dimensions: 25 x 25 x 45 mm

340-9630 CAT.5E RJ45 STP SOCKET-SOCKET COUPLER

THROUGH HOLE JACK SOCKET

- Stereo jack socket
- Robust nylon body
- Switched contacts

449-348 3 WAY STEREO PCB MOUNT JACK SOCKET,1/4IN

FOOD & BEVERAGE INDUSTRY
SENSORS

Wide selection of sensors from general purpose RFID to IO-Link models.

Sensor Highlights

Browse and shop the entire range of sensors online at **sg.rs-online.com**.

W2S-2 SERIES PHOTOELECTRIC SENSORS

- WTB2S-2 miniature photoelectric with PinPoint LED for rugged and reliable detection of all object types
- Choice of diffused background suppression, retro-reflective or through-beam - with sensing ranges up to 2m
- All sensors have PNP output and 10-30Vdc supply, retro-reflective sensors can use a range of reflectors - see 265-2754

GUIDED RADAR LEVEL PROBES

- Guided radar level probes using TDR radar technology and a cuttable level probe to achieve precise level detection which is immune to deposit formation
- Analog outputs include 4 mA-20 mA / 0-10V, & more, plus digital outputs
- Suitable for process temperatures up to 100°C with IP67 / IP69K protection

SICK

842-8572	WTB2S-2P1330
842-8560	WTB2S-2P3130
842-8585	WTB2S-2P1360
842-8579	WTB2S-2P3160

SICK

794-3389	500MM PROBE	LFP0500-A4NMB
794-3383	1000MM PROBE	LFP1000-A4NMB

REFLECTORS FOR RETROREFLECTIVE PHOTOELECTRIC SENSORS

- A range of relectors from Turck Banner suitable for use with retroreflective photoelectric sensors.
- Various shapes and size available.

THREADED BARREL BLOCK BODY SENSOR

- Extended sensing ranges
- Sense all metals at the same distance - with no reduction factor
- IP67 rating (Barrel is IP68)
- High switching frequency
- No load current 15mA max.
- Operating Temperature Range -25 → +85°C
- Short circuit protection Overload protection
- Reverse polarity protection
- Inherent weld field immunity

OSISENSE XUK PHOTO-ELECTRIC SENSORS

- OsiSense XU offers a full range of diffuse, Background Suppression (BGS), polarized reflex, laser reflex & thru-beam in the 4 most popular form-factors worldwide
- Applicative sensors for material handling, packaging, labeling (fork sensors technology) , assembly, food & beverage
- Compact 50x50mm

BANNER

764-3878	FOR USE WITH Q45BB6LL SERIES, 51 X 51 MM SQUARE	BRT-2X2

TURCK
Industrial Automation

794-8671	M18 X 1 INDUCTIVE SENSOR, 12 MM DETECTION, IP68, PG9 GLAND TERMINAL	NI12U-EG18SK-AN6X

Telemecanique Sensors

179-9954	BACKGROUND SUPPRESSION	XUK8LAPPNM12
179-9952	DIFFUSE	XUK5LAPSMM12

Browse thousands more products online **sg.rs-online.com/food**

BARREL INDUCTIVE PROXIMITY SENSOR

- Twice nominal sensing distance
- Flush mount
- Fast switching frequency

Telemecanique Sensors

444-3271	M12, SR 4MM, PNP, IP69K	XS612B1PAM12
444-3293	M18, SR 8MM, PNP, IP69K	XS618B1PAM12
444-3287	M18, SR 8MM, PNP, 2M	XS618B1PAL2
444-3366	M30, SR 15MM, IP69K	XS630B1MAL2

INDUCTIVE PROXIMITY SENSORS OSISENSE XS SERIES CABLE TERMINAL

- Forms part of the OsiSense XS range of products
- Cylindrical M18 sensor design
- 62mm size
- 8mm nominal sensing distance
- Frontal detection face
- Sensor type - inductive proximity sensor

Telemecanique Sensors

444-3344	AC/DC SENSOR,M18	XS618B1MAL2

CYLINDRICAL ULTRASONIC SENSOR

- IP67 rated
- M18 cylindrical body
- PNP switched output
- Precise object detection of any material

Telemecanique Sensors

612-2229	M18 PNP NO, 0.5M	XX518A3PAM12
612-2128	M30 PNP NO 8M	XX630A3PCM12

TELEMECANIQUE SENSORS REFLECTOR

- A range of square reflectors for use with the OsiSense XU series of Photoelectric sensors

Telemecanique Sensors

281-1739	DIM: 24 X 21MM	XUZC24
281-1751	DIM: 50 X 50MM	XUZC50
324-1585	DIM: 100 X 100MM	XUZC100

M8, M12 AND M18 INDUCTIVE SENSORS

- LED status display
- Plastic body
- Operating temperature range -25° → +70°C
- Reverse polarity and short circuit protection (dc types only)
- Flush or non flush mount versions

Telemecanique Sensors

324-1226	M8, SR 2.5MM, PNP, 2M	XS4P08PA340
324-1248	M12, SR 4MMM, PNP, 2M	XS4P12PA340
324-1254	M12, SR 4MM, PNP, M12	XS4P12PA340D
324-1311	M18, SR 8MM, PNP, 2M	XS4P18PA370
609-7331	M18, SR 15MM, PNP, 2M	XS4P30PA370
609-7230	M18, SR 5MM, PNP, M12	XS1M18KP340D
609-7280	M18, SR 8MM, PNP, 2M	XS4P18KP340
772-9874	M18, SR 20MM, M12, SS	XS918R4PAM12

MULTIMODE PHOTOELECTRIC SENSOR WITH COMPACT SENSOR

- Four modes of detection in one unit
- Easy set-up at the touch of a button
- Self teach precise set-up 'multi-mode detection'
- Sensing distance dependent on mode of operation
- Through Beam Functionality using additional light source (thru-beam accessory)
- Programmable NO/NC switching
- Connection: pre-cabled or plug-in connector (M12 4 pin male)
- IP67 Protection rating
- Operating temperature range -15 → +55 °C

Telemecanique Sensors

455-4983	COMPACT 50 X 50 PLASTIC BODY	XUK0ARCTL2

INDUCTIVE PROXIMITY SENSORS OSISENSE XS SERIES GLAND TERMINAL

- Flat form (block) 40 x 40 x 117.
- Best in class quality and immunity
- IP65, IP67, IP69K to harsh industrial environments.

Telemecanique Sensors

179-9936	15MM DETECTION 24 240V	XS7C4A1MPP20
179-9939	20MM DETECTION 24 240V	XS8C4A1MPP20
179-9940	20 MM DETECTION 12 48V D	XS8C4A1PCP20

OSISENSE XMLA PRESSURE SWITCHES

- Are used to control the pressure of hydraulic oils, fresh water, sea water, air, steam, corrosive fluids, or viscous products.
- The XMLA pressure and vacuum switches have a fixed differential and are for detection of a single threshold.
- Fixed differential
- External pressure setting window available
- 1 NO & 1 NC snap acting contacts
- Temperature range: −25 to +70 °C
- Enclosure rating: IP65 with plug-in connector, IP66 with terminal connections
- Operating rate: up to 120 operations / min. for diaphragm and 60 / min. for piston

Telemecanique Sensors

361-3413	10-160BAR M20	XMLA160D2S12
361-3429	20-300BAR M20	XMLA300D2S12

XS INDUCTIVE PROXIMITY SENSORS - NICKEL PLATED BRASS

- General purpose.
- Cylindrical (barrel) M18.
- Size 51 mm.
- Fixed body, Flush mountable.
- Nickel plated brass, PPS Front.
- Discrete signal, 4-wire.
- Output 1 NO + 1 NC, DC circuit, PNP.
- Male connector M12, 4 pins.

Telemecanique Sensors

133-6320	M18 SR 5MM	XS1N18PC410D
144-9711	M30 SR 30MM	XS630B5PAM12

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Choosing the right detection components can improve machine availability and reduce the risk of contamination

OMRON

With the day to day pressures to remain competitive and keep your production process running, sometimes the simple things can be forgotten. Taking steps to avoid potential process contamination can help to drastically reduce the risk of lost production, substandard product reaching your end customer and the possible negative impact to your business reputation.

Dan Rossek, Regional Marketing Manager - Omron Electronics, offers his opinion on selecting fit for purpose detection components, taking into consideration the requirements of the environment and the application needs. All of which can often be overlooked leading to undesirable consequences.

Fit for purpose sensors is the smart choice.

Often detection components are located at the front end of the manufacturing process, close to the raw product and it is in these situations that selecting a fit for purpose detection component is most critical. Often, due to hygiene requirements, these areas will be subjected to regular cleaning processes, involving high pressure / temperature wash down and often involving aggressive chemical agents.

Detection components which are not designed to operate under these tough environmental conditions will often fail prematurely, which in turn will result in machine down time to rectify the problem. A single instance of machine unavailability is costly and will have an adverse effect on manufacturing efficiency, but far too often this issue is repetitive as the product selection is not changed, resulting in reoccurring issues, further costs and increasing inefficiencies.

A more pertinent issue, especially in applications around primary food processing, where maintaining hygiene and eliminating contamination is a priority.

The cleaning process can lead to many challenges for detection components, as the aggressive chemicals used to maintain hygiene, will easily corrode common materials used in standard detection devices.

This situation can lead to contamination of the product, through the transfer of the corroded material on to the raw food product. The result of this can be considerable financial costs to manufacturers through product recalls and potential loss of brand reputation.

Omron recognise the need to develop products which are fit for purpose for applications in processing industries and offer a wide range of solutions which have been designed to work in these tough environments. Components manufactured in food grade stainless steel (SUS316L) and other materials which are inert to the effects of cleaning agents, has been a priority for several years.

As well as chemical resistance, Omron offer products tested to the highest water ingress protection of IP69k, to ensure operational longevity, even under high pressure and temperature cleaning regimes. A wide range of Omron products are also tested and certified for chemical resistance by independent agencies and manufacturers, including Ecolab and Diversey to ensure suitability and offer piece of mind to manufacturers.

ECOLAB Diversey

E3S-DB TRANSPARENT OBJECT SENSOR

- E3S-DB sensor provides most reliable detection of all kinds of transparent objects such as PET bottles, glass bottles or transparent trays
- Choice of Smart Teach enabling fast set up or trimmer sensitivity adjustment
- Narrow beam types detecting smallest gaps
- Proven for environments in the Food & Beverage industry

OMRON

831-5971	0.7M, PNP, M12, SMART TEACH	E3S-DBP22 OMS
831-5969	4.5M, PNP, M12, SMART TEACH	E3S-DBP21 OMS
831-5975	0.7M, PNP, M12, TRIMMER ADJ.	E3S-DBP22T OMS
831-5978	4.5M, PNP, M12, TRIMMER ADJ.	E3S-DBP21T OMS

E2FM STAINLESS STEEL INDUCTIVE SENSORS

- One-piece 303 stainless steel body resists damage caused by impact or harsh chemicals
- Thicker sensing face for superior mechanical durability, wear resistance
- 20% greater sensing range (10mm) on M30 versus the CENELEC standard 8mm
- Surge suppressor, load short-circuit protection, choice of connection format

OMRON

615-8290	M8, SR 1.5MM, PNP M12	E2FM-X1R5B1-M1
617-0587	M12, SR 2MM, PNP M12	E2FM-X2B1-M1
617-0593	M18, SR 5MM, PNP M12	E2FM-X5B1-M1
617-0616	M30, SR 10MM, PNP M12	E2FM-X10B1-M1

ER SERIES STAINLESS STEEL ROPE PULL

- The ER series stainless steel bodied safety rope pull is designed to be tough and durable for even the most demanding applications
- Rope pull switches eliminate the need for numerous E-stop buttons reducing installation time and costs
- Supports spans up to 80m and integral tension indicator makes system setup & maintenance easy
- IP67 (NEMA 6) enclosure enables the switch to withstand water wash down cleaning

OMRON

757-9121	STAINLESS STEEL ROPE PULL + RESET & E-STOP	ER6022-022MELSS

E3ZM-V COLOUR MARK SENSOR - STAINLESS STEEL

- A detergent & corrssion resistant colour mark sensor in a robust stainless steel 316L housing
- Designed to provide reliable detection of all common print marks in packaging applications
- White LED for stable detection of differently colored print marks
- Easy-to-use teach-in button or remote dynamic teach
- Fast response time of 50µs

OMRON

458-222	PNP 2M CABLE	E3ZM-V81 2M

F3S-TGR HYGIENIC DOOR SAFETY SWITCHES

- Non-contact switches for interlock hinge, sliding or removable guard doors
- IP67 Stainless steel construction ideally suited to high hygiene demands in the food industry
- Long sensing range to avoid false signals due to mis-aligned door
- Hall effect coded switch have LED indication, electronic output and up to 3 can be connected in series
- Reed switches can switch 1mA, 10 VDC and up to 6 can be connected in series

OMRON

820-3847	SMALL CODED SWITCH, 2NC/1NO, 10M CABLE	F3S-TGR-NSFC-21-10
820-3840	SMALL CODED SWITCH, 2NC/1NO, M12 CONN.	F3S-TGR-NSFC-21-M1J8
820-3844	SMALL REED SWITCH, 2NC/1NO, 10M CABLE	F3S-TGR-NSFR-21-10
820-3853	SMALL REED SWITCH, 2NC/1NO, M12 CONN.	F3S-TGR-NSFR-21-M1J8
820-3856	MINIATURE CODED SWITCH, 2NC/1NO, 10M CABLE	F3S-TGR-NMHC-21-10
820-3869	MINIATURE REED SWITCH, 2NC/1NO, 10M CABLE	F3S-TGR-NMHR-21-10
820-3862	MINIATURE REED SWITCH, 2NC/1NO, M12 CONN.	F3S-TGR-NMHR-21-M1J8

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Discover the
RS PRO Sensors series.

A wide range of sensing technologies, from inductive, to capacitive, from rotary encoders to load cells. For any application and with RS PRO-grade reliability.

Find out more at **rspro.com**

Photoelectric sensors detect and measure physical objects or quantities by emitting a field or beam of electromagnetic radiation. An object is detected by measuring alterations in the return signal.

Through-beam sensors rely on two separate housings, one for the transmitter and one for the receiver. Retro-reflective photoelectric sensors have both the transmitter and receiver contained within the same housing but require a reflector opposite to the sensor. Diffuse sensors are easier to install as only one device has to be mounted. This is because the transmitter and receiver are contained within one housing.

Background Suppression

Image for illustrative purposes only

DETECTION TYPE	DETECTION RANGE (MM)	OUTPUT TYPE	TERMINAL TYPE	STOCK NO
Background Suppression	100	NPN NO/NC	2m Cable	202-4467
Background Suppression	100	NPN NO/NC	M12	202-4469
Background Suppression	100	PNP NO/NC	2m Cable	202-4470
Background Suppression	100	PNP NO/NC	M12	202-4471
Background Suppression	350	NPN NO/NC	2m Cable	202-4448
Background Suppression	350	NPN NO/NC	M8	202-4449
Background Suppression	350	PNP NO/NC	2m Cable	202-4450
Background Suppression	350	PNP NO/NC	M8	202-4451
Background Suppression	2000	PNP+NPN	2m Cable	202-5446
Background Suppression	2000	PNP+NPN	M12	202-5447

Diffuse

Image for illustrative purposes only

DETECTION TYPE	DETECTION RANGE (MM)	OUTPUT TYPE	STOCK NO
Diffuse	800	Relay	202-5452
Diffuse	2000	NO+NC, NPN	202-5448
Diffuse	2000	NO+NC, PNP	202-5450
Diffuse	2000	Relay	202-5451

Through Beam Emitter / Reciever

Image for illustrative purposes only

DETECTION TYPE	HOUSING MATERIAL	DETECTION RANGE (MM)	OUTPUT TYPE	TERMINAL TYPE	THREAD SIZE	STOCK NO
Through Beam (Emitter)	Brass Nickel Plated	5000	-	2m Cable	M12×1	204-3990
Through Beam (Receiver)	Brass Nickel Plated	5000	NPN NO	2m Cable	M12×1	204-3991
Through Beam (Receiver)	Brass Nickel Plated	5000	PNP NO	2m Cable	M12×1	204-3993
Through Beam (Emitter)	Brass Nickel Plated	10000	-	2m Cable	M18×1	204-3994
Through Beam (Receiver)	Brass Nickel Plated	10000	NPN NO/NC	2m Cable	M18×1	204-3995
Through Beam (Emitter)	PBT	10000	-	2m Cable	M18×1	204-4000
Through Beam (Receiver)	PBT	10000	NPN NO/NC	2m Cable	M18×1	204-4001

Through Beam Emitter / Receiver

Image for illustrative purposes only

DETECTION TYPE	DETECTION RANGE (MM)	OUTPUT TYPE	STOCK NO
Through Beam (Emitter)	30000	Relay	202-5460
Through Beam (Receiver)	30000	Relay	202-5462

VISIT **RSPRO.COM** TO DISCOVER THE COMPLETE RANGE.

An inductive sensor provides non-contact detection of metallic objects, with some sensors being able to target both ferrous and non-ferrous metals, while others specialise in sensing only one type. Inductive proximity sensors are suitable for use in virtually any industry with some types also able to be used in hazardous environments.

Inductive sensors can also be affected by interaction with other sensors and ambient environmental influences. Careful installation will be required to ensure the sensor is effective and is not adversely affected by any surrounding sensors or metallic objects.

Inductive Sensor

Image for illustrative purposes only

DETECTION RANGE (MM)	OUTPUT TYPE	HOUSING MATERIAL	TERMINAL TYPE	THREAD SIZE	IO LINK	STOCK NO
0.6	PNP NO	Stainless Steel	2m Cable	M4×0.5	N	206-6124
0.8	PNP NO	Stainless Steel	M8	M5×0.5	N	206-6126
0.8	PNP NO	Stainless Steel	2m Cable	M5×0.5	N	206-6127
1.5	PNP NO	Stainless Steel	M8	M5×0.5	N	206-6128
1.5	PNP NO	Stainless Steel	2m Cable	M5×0.5	N	206-6129
2	PNP NO	Stainless Steel	M12	M8×1	Y	206-6130
2	PNP NO	Stainless Steel	M8	M8×1	Y	206-6132
2	PNP NO	Stainless Steel	M8	M8×1	Y	206-6133
2	PNP NO	Stainless Steel	2m Cable	M8×1	Y	206-6134
2	PNP NO	Stainless Steel	2m Cable	M8×1	Y	206-6135
4	PNP NO	Stainless Steel	2m Cable	M8×1	Y	206-6136
4	PNP NO	Stainless Steel	M12	M12×1	Y	206-6137
4	PNP NO	Stainless Steel	M12	M12×1	Y	206-6138
4	PNP NO	Stainless Steel	2m Cable	M12×1	Y	206-6139
4	PNP NO	Stainless Steel	2m Cable	M12×1	Y	206-6140
8	PNP NO	Stainless Steel	M12	M18×1	Y	206-6141
8	PNP NO	Stainless Steel	M12	M18×1	Y	206-6142
8	PNP NO	Stainless Steel	2m Cable	M18×1	Y	206-6143
8	PNP NO	Stainless Steel	2m Cable	M18×1	Y	206-6144

Image for illustrative purposes only

DETECTION RANGE (MM)	OUTPUT TYPE	HOUSING MATERIAL	TERMINAL TYPE	THREAD SIZE	IO LINK	STOCK NO
38	PNP NO	Brass Nickel Plated	M12	M30×1.5	N	206-6166
38	PNP NO	Brass Nickel Plated	2m Cable	M30×1.5	N	206-6167
2	PNP NO	Plastic Vistal®	M8	-	N	206-6168
2	PNP NO	Plastic Vistal®	2m Cable	-	N	206-6170
3	PNP NO	Plastic Vistal®	M8	-	N	206-6171
3	PNP NO	Plastic Vistal®	2m Cable	-	N	206-6172
4	PNP NO	Plastic Vistal®	M8	-	N	206-6173
4	PNP NO	Plastic Vistal®	2m Cable	-	N	206-6174
20	PNP NO/NC	Plastic PA 66	M12	-	N	206-6176
20	PNP NO/NC	Plastic PA 66	Terminal	-	N	206-6177
20	PNP NO	Plastic PA 66	M12	-	N	206-6178
20	PNP NO	Plastic PA 66	Terminal	-	N	206-6179
40	PNP NO/NC	Plastic PA 66	M12	-	N	206-6180
40	PNP NO/NC	Plastic PA 66	Terminal	-	N	206-6181
40	PNP NO	Plastic PA 66	M12	-	N	206-6182
40	PNP NO	Plastic PA 66	Terminal	-	N	206-6183

Capacitive proximity sensors feature a pair of parallel plates, similar to a standard capacitor. They work when an object produces changes in capacitance, triggering the sensor. Capacitive sensors are designed for use with non-ferrous materials and are ideal for close-range applications such as level detection and monitoring.

Capacitive sensors can be affected by their environment and possible interaction with other sensors. This could include anything from the ambient temperature to other objects in the vicinity. As a result of this, precautions should be taken when installing these sensors to avoid interference from other objects or sensors.

Flush Mount

Image for illustrative purposes only

THREAD SIZE	DETECTION RANGE (MM)	TERMINAL TYPE	OUTPUT TYPE	IP RATING	STOCK NO
M12×1	2	2m Cable	NPN-NO	IP67	184-5578
M12×1	2	2m Cable	NPN-NO	IP67	184-5582
M12×1	2	2m Cable	PNP-NO	IP67	184-5584
M12×1	2	M12	NPN-NO	IP67	184-5579
M12×1	2	M12	NPN-NO	IP67	184-5583
M12×1	2	M12	PNP-NO	IP67	184-5585
-	5	2m Cable	NPN-NO	IP67	184-5569
-	5	2m Cable	PNP-NO	IP67	184-5570
M18×1	5	2m Cable	NPN-NO/NC	IP67	184-5593
M18×1	5	2m Cable	NPN-NO/NC	IP67	184-5604
M18×1	5	2m Cable	PNP-NO/NC	IP67	184-5596
M18×1	5	2m Cable	PNP-NO/NC	IP67	184-5606
M18×1	5	2m Cable	NO	IP67	184-5591
M18×1	5	M12	NPN-NO/NC	IP67	184-5594
M18×1	5	M12	NPN-NO/NC	IP67	184-5605
M18×1	5	M12	PNP-NO/NC	IP67	184-5607
M18×1	5	M12	NO	IP67	184-5592
M18×1	5	M12	NO	IP67	184-5603
M30×1,5	10	2m Cable	NPN-NO/NC	IP67	184-5615

Non-flush Mount

Image for illustrative purposes only

THREAD SIZE	DETECTION RANGE (MM)	TERMINAL TYPE	OUTPUT TYPE	IP RATING	STOCK NO
M12×1	4	2m Cable	NPN-NO	IP67	184-5580
M12×1	4	2m Cable	NPN-NO	IP67	184-5586
M12×1	4	2m Cable	PNP-NO	IP67	184-5588
M12×1	4	M12	NPN-NO	IP67	184-5581
M12×1	4	M12	NPN-NO	IP67	184-5587
M12×1	4	M12	PNP-NO	IP67	184-5590
-	8	M12	NPN-NO	IP67	184-5571
M18×1	8	2m Cable	NPN-NO/NC	IP67	184-5599
M18×1	8	2m Cable	NPN-NO/NC	IP67	184-5609
M18×1	8	2m Cable	PNP-NO/NC	IP67	184-5611
M18×1	8	2m Cable	NO	IP67	184-5597
M18×1	8	M12	NPN-NO/NC	IP67	184-5600
M18×1	8	M12	NPN-NO/NC	IP67	184-5610
M18×1	8	M12	PNP-NO/NC	IP67	184-5601
M18×1	8	M12	PNP-NO/NC	IP67	184-5612
M18×1	8	M12	NO	IP67	184-5598
M18×1	8	M12	NO	IP67	184-5608
-	10	2m Cable	NPN-NO	IP67	184-5577
M30×1,5	15	2m Cable	NPN-NO/NC	IP67	184-5622

VISIT **RSPRO.COM** TO DISCOVER THE COMPLETE RANGE.

Fibre optic sensors are a type of proximity sensor that have an optical fibre connected to a light source to allow for detection in tight spaces or where a small profile is beneficial. The optical fibre is a transparent fibre made of glass (silica) or plastic with a diameter slightly thicker than a human hair, this fibre transmits light between the two ends to produce an electrical signal.

Fibre Optic Sensors

Image for illustrative purposes only

FIBRE OPTIC TYPE	OUTPUT TYPE	SUPPLY VOLTAGE	IP RATING	POWER CONSUMPTION	DETECTION RANGE	STOCK NO
Plastic	NPN	24V DC	IP54	1.44W	with 896-7298 = 110 -290mm	204-0681
Plastic	PNP	24V DC	IP54	1.44W	with 896-7285 = 300 - 800mm	204-0682

Load cells, often called load cell transducers, are crucial components in most industrialweighing systems. They are available in many different configurations and standards, depending on the intended application and environment.

Among the various different types of load cells available, models and styles can be differentiated in two key ways:

1. By the specific method they use to detect weight (compression load cells, tension load cells and other measurement types).

2. By the type of output signal generated (hydraulic load cells, piezoelectric load cells and various other configurations).

Load Cell Sensors

Image for illustrative purposes only

FORCE MEASURED	MEASUREMENT RANGE MIN/MAX (KG)	OUTPUT TYPE	IP RATING	MAX VOLTAGE	STOCK NO
Compression	0.3 - 3	PNP	IP67	15V	204-2767
Compression	5 - 20	PNP	IP66	10V	204-2772
Compression	5 - 500	PNP	IP68	15V	204-2765
Compression	10 - 100	PNP	IP67	15V	204-2770
Compression	50 - 1000	PNP	IP66	15V	204-2768
Compression	50 - 1000	PNP	IP68	10V	204-2764
Compression	60 - 1200	PNP	IP67	15V	204-2771
Compression	500 - 3000	PNP	IP68	15V	204-2766
Compression & Tension	1 - 500	PNP	IP66	10V	204-2773

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With RS PRO you have a choice of over 60,000 proven quality, great value products, including the widest single-branded offer for the food and beverage industry.

RS PRO APPROVED — The RS PRO Seal of Approval is only awarded after a process of rigorous testing, inspection and certification to demanding international quality standards.

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RS PRO VALUE — RS PRO provide customers with one brand that gives huge choice and availability, proven quality and process that can be trusted. RS PRO is the choice for great value and reliable products.

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Essential components for managing your complex process, automation and electrical environments.

Electrical, Automation & Process Control Highlights

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MECHANICAL COUNTER

- 5-digit, manual reset and surface mount device.
- Pivoting control lever and automatic return.
- Count mode of 1 stroke is equal to 1digit/ drive.
- Maximum speed of the shaft is 500spm.
- Reset by knurled knob and reset button at left
- Stroke angle is between 38° and 60°

Baumer

150-467	MECHANICAL COUNTER WITH LEVEL	H 127.010A01G

XCS-DMC/XCS-DMP CODED MAGNETIC SWITCHES, RECTANGULAR

- Actuation on 3 sides: face to face and face to side
- 8mm tolerance to misalignment (5mm for XCS-DMC)
- LED versions have an LED in series with one N/C giving indication when guard is closed
- Coded reed technology - switch cannot be totally defeated by a simple magnet
- Rectangular plastic housing
- Dimensions: compact: H51 x W16 x D7mm, standard: H88 x W25 x D13mm
- Available pre-cabled or with connector on flying lead
- IP66/67 protection in accordance with EN/IEC 60529
- ROHS compliant

Telemecanique

133-0072	2NC/1NO, 5M	XCSDMP7005

DIN RAIL MOUNT - DRA1-CMX SERIES

- 10mm single channel DIN rail mount SSR assembly
- DC ratings up to 200 Vdc and 8 A
- 3-10 and 20-28Vdc control
- SPST-NO function
- Cage style screw terminals for easy connection
- Fits standard 35mm DIN rail
- Includes LED Status indicator

Sensata • Crydom

701-8483	6A, 100 VDC	DRA1-CMXE100D6

CONNECTING CABLE

- A range of connecting cables for the SIMATIC 170 series of mobile panels supporting a Profibus or Profinet environment.
- 10M length

SIEMENS
Ingenuity for life

746-5372	FOR USE WITH 277 SERIES MOBILE PANEL	6XV1440-4BN10

WALL FAN

- Quiet motor operation
- 3 speed options with oscillation and free neck
- Ideal for wall fixing
- 8-hour ON/OFF timer
- Infrared remote control sensor
- Fitted with a double insulated cable and terminated with type 3-pin G UK mains plug

Vent-Axia

884-1014	300MM DIA	12" Wall Fan

3000 SERIES - TEMPERATURE CONVERTER

- High basic 0.05% accuracy in all available signal ranges
- All units tested to ensure 2.5 kVAC isolation and have excellent noise immunity
- Response time of < 30 ms for temperature measurements
- Low temperature coefficient better than 0.01% / °C in a wide -25 to +70°C ambient temperature range for precise measurements
- • Long term accuracy better than 0.1% / 3 years with no need for re-calibration
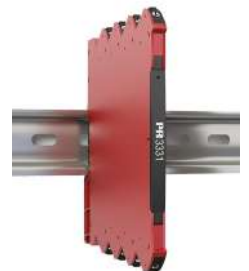
PR electronics

827-5467	5.5 → 35 V DC	3331

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E5CC DIGITAL TEMPERATURE CONTROLLERS (48 X 48MM)

- Large white LCD display
- 15.2 mm characters
- Dual PV/SV 4-digit display
- 50 ms high-speed sampling
- Short 60 mm housing case
- Easy connection to PLC with communications that require no programming
- Component communications can be used to link temperature controllers to each other
- Easy set up with CX-Thermo software (Windows XP, 7) without additional power supply via USB conversion cable

OMRON

760-4592	VOLTAGE OUTPUT 100-240V
760-4599	CURRENT OUTPUT 100-240V

ZEN LOGIC MODULE PROGRAMABLE RELAYS

- Increased functionality in a compact body (70 mm wide × 90 mm high).
- This single Unit easily provides relay, timer, counter, and time switch functions.
- Economy-type and Communications-type CPU Units have been added to series.
- Increased timing accuracy with a monthly deviation of ±15 s max. Multiple-day operation and pulse output operation have been added.
- Select from two power supply options: 100 to 240 VAC or 12 to 24 VDC.

OMRON

650-2984	ZEN 20 I/O 12-24VDC	ZEN-20C1DR-D-V2

F3S-TGR-CL SAFETY LIGHT CURTAIN

- Simple to wire, mount and configure
- DIP-switch setup for blanking, interlock function, muting and optical coding
- Floating blanking and Fixed blanking supported
- Muting function and muting lamp integrated
- Type 2 or type 4 acc. EN61496-1
- EN ISO 13849-1 – ready
- Long range active/active system
- Sensing distance 0.2 to 6m (14 mm) and 0.2 to 14m (35 mm)

OMRON

757-7715	TYPE 2,600MM	F3S-TGR-CL2A-035-600

2 CHANNEL DIGITAL DIN RAIL TIME SWITCH

- Independent Day Keys provide easier operation.
- Temporary holiday setting function makes it easy to turn OFF output for holidays and non-operating days
- Settings can be made even with the Time Switch turned OFF
- Test mode enables easy program checking
- Complies with EMC Directives, UL/CSA, and other safety standards
- Includes summer time (DST) adjustment. Yearly models also offer automatic switching to DST

OMRON

177-0111	100 → 240 V AC

H7EC COUNTER

- Large totaliser display
- Self powered by internal battery which can also be replaced
- Key protected switch to prevent accidental reset switch operation
- Dual operation mode
- Short body of only 48.5mm
- Finger touch protection

OMRON

348-1929	BEIGE CASE	H7EC-N
348-1913	BLACK CASE	H7EC-N-B

E5C2 ON/OFF TEMPERATURE CONTROLLER

- Supply voltage rating ranging from 100VAC to
- This controller has a width of 48mm and a hei 48mm. It has a K-type (0°C to 400°C) thermoc input and relay output for ON-OFF control.
- It has thermocouple element lead wires that make soldering difficult due to its inability to sticking to the solder.

OMRON

535-0710	48 X 48MM, 100 → 240 V AC	E5C2-R20K AC100-240 0-400

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VITAL SAFETY CONTROLLER, BASE UNIT

• Cost-effective cable routing/connections
• Information output with two functions
• LED indication of: power supply, dynamic signal and outputs
• Detachable connector blocks
• Two NO safety outputs
• Manually supervised or automatic reset
• Can accommodate long cable lengths
• Standard width: 22.5 mm

ABB

733-2483	TINA 7A ADAPTOR FOR OUTPUTS
733-2464	TINA 2A ADAPTOR FOR OUTPUTS
733-2468	TINA 3A ADAPTOR FOR OUTPUTS

JOKAB EVA GENERAL CODE

• 4 pieces of DA 2B spacer rings included
• Yellow in colour.

ABB

176-0036 FOR USE WITH ADAM DYN, OSSD 2TLA020046R0800

JOKAB CABLE WITH CONNECTOR

• Shielded cable with connector is PVC coated.
• The conductor size is 22AWG.
• Black oxide colour.
• Length is 20m
• M12 female molded 8-pin connector

ABB

176-0060 M12-C203 20M CABLE 2TLA020056R4100

PLUTO SAFETY PLC, BASE UNIT

• Simple and easy programming facilities
• Easy to configure and install
• Up to 640 I/O's

ABB

733-2461 TINA 1A BLANK PLUG FOR TINA 4A AND 8A 2TLA020054R0000

SELECTOR HANDLES AND SHAFTS

• Shaft fitted to the disconnector to enable operation, used in conjunction with a handle
• Handles available in black or yellow/red

ABB

686-7373	HANDLE, SELECTOR TYPE,OT100 TO 125FT
686-7376	HANDLE, SELECTOR TYPE,OT16 TO 80FT

STAINLESS STEEL PUSH BUTTON ENCLOSURES

• ABB Compact Series
• 22mm Cutout Diameter
• IP65 rating

ABB

730-650	3 WAY	01.001003.SS3
730-644	2 WAY 152 X 92 X 55MM	01.001002.SS2
730-638	1 WAY 90 X 90 X 55MM	01.001001.SS1

JOKAB INTERLOCK SWITCH

• Reduce downtime
• No wear
• No mechanical breakage
• Easy to install
• Local reset function
• Operating temperature ranges between -40°C and +70°C
• Suitable in harsh environments

ABB

176-0019 ADAM DYN-INFO M12-5 CONTACT 2TLA020051R5100

JSTD1 SERIES ONE- HAND CONTROL SWITCH

• 1NO/1NC contact configuration
• Cable length is 0.2m
• Ergonomic
• Low activation force
• Flexible mounting
• Several grip possibilities
• Highest safety level (category 4)
• Two-channel switching in each hand
• High mechanical life of 106 cycles
• Operating force is 2N
• Actuator travel of 1.3 ±0.6mm

ABB

733-2332 JSTD1-B SAFEBALL W/ 0.2M WIRES 2TLA020007R3100

EMERGENCY STOP FOOT SWITCH

• Snap action switch with cover
• Visible operation
• Electrically separated contacts
• Rated impulse withstand voltage is 6kV
• Rated operational current at 230VAC is 3.1A
• Operating temperature ranges between -10°C and 70°C

ABB

825-1720 IPS E-STOP FOOTSWITCH, YELLOW IPSY1A11

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CONTACT BLOCKS

- Short-circuit protection via a 10 A cartridge fuse, providing excellent circuit protection.
- Lightweight, easy to fit and configure.
- Easily removable and adjustable. Front mounting.
- Operating temperature of between -40 to 70 °C.

331-0473	1NO	ZBE101
331-0489	1NC	ZBE102

HARMONY EMERGENCY STOP HEAD ZB4B

- Easy mountable, using a single installer (Self-maintaining of the head in its cut-out).
- Clip-together component system (head, body, contact blocks).
- Chromium plated metal, durable and easy to recycle
- The switch has great resistance to electric shock, conforming to the machine safety standards of the IEC (Class 1)
- Single locking screw, making the button easy to mount, reliable and secure.

330-9388	TWIST TO RELEASE	ZB4BS844

HARMONY XB4 EMERGENCY STOP PUSH BUTTONS

- Effortless to use ""turn to release"" functionality for easy reset once activated
- Chromium plated metal panel with prominent red round push button, easily alerting to the eye
- 2 NC contacts, for simple configuration
- Short-circuit protection using a 10 A cartridge fuse which conforms to EN/IEC 60947-5-1

795-1306	40MM TURN RELEASE RED 1NC	XB4BS8442

HARMONY XALK CONTROL STATIONS

- Easy to use ""turn to release"" functionality for easy reset once activated
- Light grey RAL 7035 base enclosure, with a yellow RAL 1021 cover colour and a prominent, bold red push button for easy identification to its function
- Durable Polycarbonate material, easy to clean and maintain with added durability for extended use (mechanical durability of 300,000 cycles)

795-1295	EMERGENCY STOP STATION 1NC TURN RELEASE	XALK178

XAL CONTACT BLOCKS

- Slow break contact operation in conjunction with pushbuttons for quicker action (depending on the speed of the operator).
- 1,000,000 cycles of mechanical durability, robust and reliable to ensure continuous operation.
- Lightweight, easy to fit and configure. Easily removable and adjustable. Front mounting.

331-0580	CONTACT BLOCK 1NC SCREW TERMINAL	ZENL1121

EMERGENCY STOP HEAD - TURN TO RELEASE / KEY SWITCH

- An instantaneous disconnect of your circuit upon alarm & activation of this emergency stop control unit
- Modular system, nearly all shapes and functions are compatible with each other (if you need to switch the push buttons head you can do so without changing the other parts)
- Conformity with IEC, UL, CSA standards - giving you the reassurance of reliability and safety in your industry

426-2808	E STOP 40MM TRIG ACTION TURN RELEASE RED	ZB5AS844

HEADS FOR SELECTOR SWITCHES ZB4-B (2)

- Low-load electrical contact
- Screw clamp connection, pins for printed circuit
- Ingenious locking system
- Flexible and robust
- -40°C to 70°C operating temperature

330-9041	2 POSITION STAYPUT TWIST SELECTOR SWITCH	ZB4BD2
330-9057	3 POSITION STAYPUT TWIST SELECTOR SWITCH	ZB4BD3
330-9142	2 POSITION STAYPUT TO LEFT KEY SWITCH	ZB4BG2

BODY/FIXING COLLAR ZB4-B

- The collar weighs 0.003 g
- The mounting hole size of 22 mm
- It is a green premium product
- Designed to be used with the Harmony XB4 series of push-button switches
- Comprised of a strong metal material enabling the component to hard-wearing and long-lasting

331-0142	MOUNTING BLOCK FOR PUSHBUTTON SWITCH	ZB4BZ009

FRONT MOUNT INTEGRAL LED BODIES

- Lightweight, easy to fit and configure screw clamp terminal connectors. Easily removable and adjustable.
- 100,000 H service life when used at rated voltage, used within an average temperature of 25 ° C.
- Protected integral LED, coming in varying colours including white, red, yellow and more. See product specification for exact detail.

610-2821	LIGHT BLOCK,GREEN, INTEGRAL LED, 24V	ZBVB3

Extremely compact control and switching

Relay system and logic relay system

Relay modules for every application and industry: with PLC-INTERFACE relay systems you will find the best solution. The logic relay system, PLC logic, combines relay and analogue modules with logic functions and intuitive software.

PHOENIX CONTACT has everything you need for best switching.

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PHŒNIX CONTACT

INSPIRING INNOVATIONS

PLC-RSC SERIES

- Relays and opto-couplers for inputs and outputs with "pluggable" switching devices
- Four bridging slots to reduce wiring; bridging of up to 80 modules is possible
- Screw terminal connections
- LED indicators and diodes for coil suppression
- 250V versions have a switched power rating of 1500VA
- Dimensions (WxDxH) 6.2 x 80 x 94 mm (Single pole, double pole 14mm wide)
- Operating temperature range -40 to +55°C
- Mechanical life (relays) 1 x 107 operations
- Wide range of accessories also available
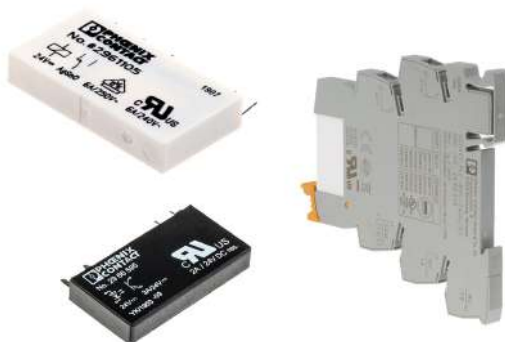
290-1422	SINGLE RELAY REL-MR- 60DC/21	2961118
290-1416	SINGLE RELAY REL-MR- 24DC/21	2961105
306-6592	MINIATURE SOLID-STATE RELAY - OPT-24DC/ 24DC/ 2	2966595
358-8301	RELAY MODULE - PLC-RSC- 24DC/21	2966171

RIF-0 POWER RELAY MODULES

- Easy wiring due to push in connection technology
- Easy handling and extension of range
- Plug in display/suppressor module
- 1 and 2 contact options

794-3761	24DC/1	2903361
794-3765	12DC/ 1	2903362
794-3771	24DC/21	2903370
794-3780	12DC/21	2903371

MCR SIGNAL CONDITIONERS

- MCR series 3-way isolating amplifiers for electrical isolation of analog signals.
- Processing of standard signals
- Fixed setting of input and output signals
- 3-way isolation
- Pluggable screw connection

801-6101	SIGNAL CONDITIONER - MCR-C-I-I-00-DC	2814508

4-WAY ISOLATED SIGNAL DUPLICATOR

- Configurable 4-way isolating amplifier
- Thin 6.2mm housing width
- Ex-zone 2 approval
- DIP switch allows configuration of up to 8 signal combinations
- Duplication of a standard analog signal on two current outputs

489-2881	SIGNAL DUPLICATOR - MINI MCR-SL-UI-2I-NC	2864176

INTERFACE RELAY, SERIES PR1

- Pluggable miniature relays, with power contact for high continuous current
- Varied switching current dependant on the relay chosen from the REL-MR series
- Pluggable miniature relay - compact in size
- Additional hard gold plating
- AC and DC coil voltages
- Robust and hard wearing

508-0023	SINGLE RELAY - REL-MR- 24DC/21-21	2961192

PSRMINI SAFETY RELAY

- Compatible with all important signal transmitters and safety-relevant systems
- Screw and push-in spring connection
- Automatic reset, Automatic/Manual reset, Automatic/Manual/ Monitored reset, Manual/Monitored reset options available
- Up to 70% space saved
- Easy and quick diagnosis given means shorter downtime

893-7701	PSR-MC40-3NO-1DO-24DC-SC	2700569

OPTO-COUPLERS WITH SOLID STATE RELAY OUTPUT

- Dc in/Dc out, Dc in/Ac out and Ac in/Dc out versions available
- Versions with switching speeds up to 100kHz available
- 2.5kVac input to output isolation
- LED status indication
- Module width 6.2mm
- Operating temperature range: -20 to +60°C

533-0019	TERMINAL BLOCK - DEK-OE- 24DC/ 24DC/100KHZ	2964283

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KS, GLASS REINFORCED PLASTIC WALL BOX

- Zinc-plated steel mounting plate
- Colour Similar to RAL 7035
- Dyed plastic finish with no after-treatment
- All round foamed-in PU seal
- IP66 and IK08 protection
- Ambient temperature -30°C to +75°C
- Single door
- Door hinged on the right, Can be swapped to the left

| **124-3432** | 1000 X 800 X 300MM | 1423500 |

AE COMPACT ENCLOSURES

- The AE series from Rittal is a compact stainless steel enclosure with an all-round foamed-in PU seal offering IP66 protection to IEC 60 529.
- Protection category: IP66 to IEC 60 529, NEMA 4X and IK08
- Stainless steel 1.4301 (AISI 304) enclosure and door
- Door opening angle approx. 130°

| **784-6125** | 300X300X210MM | |

TOPTHERM FILTER FAN

- Easy to assemble, highly efficient and a versatile unit that provides airflow of 66m³/h and supply voltage of 230VAC.
- It does not require any tools during assembly, exchange or maintenance.
- The fan module and power connection are simple to position to suit the needs of the application.

756-9767	66CU.M/H 230V	3238.1
756-9777	120CU.M/H 230V	3239.1
756-9802	250CU.M/H 230V	3241.1

FAN FILTER MAT

- Temperature-resistant, up to 100°C
- Reliable filtering of dust from a particle size of 10μm
- Thickness is 17 mm
- Filter class G3
- Air throughput is 105m3/h to 120m3/h

756-9887	177X177MM	3171.1
756-9878	124X124MM	3322.7
756-9880	224X224MM	3172.1
756-9884	292X292MM	3173.1

TOPTHERM SIDE AIR CONDITIONERS

- Mounting on or in doors and side panels of enclosures with standardized mounting cut-outs.
- Integrated automatic condensate evaporation (except SK 3303.500), Nano coating condenser for easy cleaning and constant cooling capacity and efficiency.
- These air conditioners also use an intelligent operating system, turning fans on and off as needed to maintain precise temperatures while saving energy.

| **764-4115** | WALL MOUNTED 230V 550W | 3303500 |

FAN FILTER EXHAUST

- Used for ventilation by convection.
- The outlet filter can be installed in the upper and lower sections of the enclosure.
- The filter frame is made of ABS material.
- The filter is made of chemical fibre material. The filter is available with a length of 255mm and a width of 255mm. It is suitable for 177mm x 177mm and 224mm x 224mm fan size.

| **756-9865** | 224X224MM | 3240.2 |

GREENTECH EC ENERGY EFFICIENT FANS – ACI 4400 SERIES

- The ACi 4400 series utilises motors with GreenTech EC technology offering enhanced performance with a fraction of the energy usage of conventional motors.
- High pressure and airflow can also be achieved with a low operating noise.
- A wide selection of speeds are available with varying nominal voltages.
- These units are equipped with maintenance free ball bearings and have a service life of more th 62,500 hours, reducing maintenance costs.

ebmpapst

740-6398   119 X 119 X 38MM, 230 V AC   ACI4420HH

SLEEVE BEARING AXIAL FANS

- Electronic protection against reverse polarity
- Impedance protected against blocking and overloading
- Fibreglass-reinforced plastic
- Integrated electronic commutation

ebmpapst

322-4445   40.9CU.M/H24VDC   614NGN

HIGH PERFORMANCE BALL BEARING FANS

- Material: fibreglass-reinforced plastic
- Fully integrated electronic commutation
- Protected against reverse polarity and locking
- Connected via single strands AWG 24, TR 64. Bared and tin-plated.

ebmpapst

222-294   360CU.M/H 24VDC   7214N

W2S130 TUBEAXIAL AC FANS

- Compact dimensions, enables fans to be incorporated into equipment where component mounting space is limited.
- Robust aluminium construction, ideal for industrial applications.
- Black coated sheet steel impeller, directly welded onto rotor.
- Expertly designed aerodynamic fan blades supporting excellent efficiency and low noise levels.
- Impedance protected shaded pole motor, protects the fan motors from burning out if the rotor locks.
- Maintenance free ball bearing system, supporting excellent performance and life expectancy

ebmpapst

771-9108   150MM 380CU.M/H 230V   W2S130-AA03-01

CENTRIFUGAL FANS AND BLOWERS – BACKWARD CURVED BLADES

- A solution to a wide range of application requirements and are ideally suited for intake suction use.
- Used for intake suction using backward curved blades, do not require a scroll housing – increasing ease of use and versatility.

ebmpapst

825-7686	220MM DIA, 115V	R2E220-AA44-98
825-7670	220MM DIA, 230V	R2E220-AA40-80
825-7702	225MM DIA, 230V	R2E225-BD92-09

RADICAL EC CENTRIFUGAL FANS

- The ebm-papst RadiCal backward curved EC fan offers higher performance for less power
- Ideal solution to a wide range of application requirements and are ideally suited for intake suction use
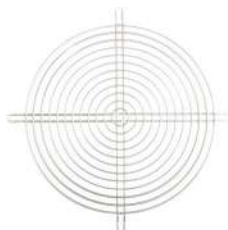
ebmpapst

825-7803   R4E225-AI01-10

AXIAL FAN FINGER GUARDS

- Industrial standard size zinc plated steel finger guards for axial fans
- 4 standard fixing points except 172 x 172 which has 2 points

ebmpapst

233-9401	225HX225WMM	78128-2-4039
581-470	127HX127WMM	09496-2-4039

BACK DRAUGHT SHUTTERS

- To prevent back draughts
- Lightweight blades and square opening provide maximum free area when the fan is operating
- Blades close under gravity when the fan airflow ceases
- All components are light grey and UV stabilised to provide a long life

ebmpapst

414-1802   630MM   WSK 63

Browse thousands more products online **sg.rs-online.com/food**

IP66 STAINLESS STEEL WALL BOX WITH CHASSIS PLATE

- AISI 304 Stainless Steel
- IP66 rating
- Fully wall mountable
- Lockable

842-8399	200X200X150MM
842-8412	240X180X150MM
842-8419	240X240X150MM
842-8434	240X360X150MM
842-8406	300X300X150MM
842-8370	300X300X200MM
842-8361	300X400X150MM
842-8342	300X400X200MM
842-8421	360X180X150MM
842-8380	400X300X150MM
842-8383	400X300X200MM
842-8409	400X400X200MM
842-8346	400X500X200MM
842-8374	500X500X200MM
842-8364	500X700X250MM

IP66 WALL BOXES

- 1.2 mm AISI 304 natural stainless steel
- IP66 rating
- Earth studs are provided on the body, door and chassis plate
- Double lipped edge to ensure higher strength and ease of installation
- Easy to use, including removal of the door

749-1844	400X500X250MM

IP66 WALL BOXES

- Body material is AISI 304 stainless steel sheets
- IP66 rating
- Double lipped edges to ensure higher strength and ease of installation
- Easy to use, including removal of the door
- Door is fitted with a polyurethane gasket

758-6986	300X300X200MM
758-6974	300X400X150MM
758-6958	300X400X200MM
758-6999	400X300X200MM
758-6961	400X500X200MM
758-6992	500X500X200MM
758-6977	500X700X250MM
758-6970	800X1000X300MM

GRP WALL BOXES WITH GLAZED DOOR

- Fibre glass reinforced polyester construction offering excellent durability, long life and self extinguishing properties up to 960oC
- Glazed door, ideal for viewing the contents of the wall box without unlocking
- Neutral light grey colour ideal for use in a range of applications
- Electromagnetic compatibility eliminating electrical contact risks
- High impact and harsh atmosphere resistance

192-7123	400X400X200M

IP66 SHEET STEEL WALL BOX

- Steel structure, coated with an epoxy polyester powder
- IP66 rating
- Enclosure and the door is made from sheet s
- Fully wall mountable
- Pebble grey finish

775-5791	MS WALL BOX WITH BRACKETS/CHASSIS PLATES

CLEAR MAKROLON® FRONT

- Transparent lid with visibility to internal components
- Two-part, modular, glass fibre enclosures offering excellent protection
- Removable chassis plates included
- Self extinguishing, resistant to ozone, most oils, acids, bases and salts
- Temperature range -50°C to +160°C

501-496	IP66 370X300X175MM

METAL LOCK

- An effective enclosure locking device with a 5mm Double Barb lock configuration. The cam is designed to provide a
- slide compression fit and operate through an angle of 90
- Bright chrome plated finish
- Cam lead-in ensures compression of sealing gasket
- Max panel thickness 6mm
- Grip length 25mm

842-8478	RONIS TYPE KEY
842-8469	T TYPE KEY

FOOD & BEVERAGE INDUSTRY
PLUMBING & PIPELINE

We supply a wide range of pipes, tubing, hoses and more to suit your requirements.

Plumbing & Pipeline Highlights

Browse and shop the entire range of plumbing & pipeline products online at **sg.rs-online.com**.

POWER-ASSISTED CONTROL NORMAL MODULE

- Power-assisted control 2/2 NC and NO solenoid valves with floating diaphragm.
- No minimum control pressure.
- 238 series solenoid valves designed to eliminate water hammer when water is turned off.
- Brass body.
- Pluggable PG 11P connection.

306-1581 SOLENOID VALVE 2/2 SCG238A044-24VCC

PERISTALTIC PUMP

- The Verderflex peristaltic, electric operated, self-priming, positive displacement pump has a maximum flow rate of 2200ml/minute.
- The supply voltage is 24VDC
- Input power is 30W
- 2 roller design
- Cycology resin pump head with support bearing
- Tough ABS casing
- Thermally protected motor and cooling fan
- Repeatability is ±0.5%
- Metering accuracy is ±2% (dependant on size of dose)

VERDERFLEX

125-4041 8MM TUBE AU R1580240 05

AIR OPERATED POSITIVE DISPLACEMENT PUMP

- Pump body is made of polypropylene
- Can running dry without damage
- High clearance check-valves for good solids handling
- Flow rate can be varied by adjusting air inlet pressure
- High suction lift up to 80m
- Robust design
- Stall free performance
- Oil free- no contamination

667-9182 132L/MIN TEP130-PX

DS6281-EV 2/2 SOLENOID VALVE - BRASS BODIED

- 0.1 - 4 second response time (dependant upon pressure)
- IP65 Rated (with cable protection)
- Brass body
- Quiet operation
- Water hammer free design
- Compact installation length NPT / Rc connection ports
- 0.2 - 16 Bar pressure range

bürkert
FLUID CONTROL SYSTEMS

816-3168 3/4" SOL VALVE 20MM ORIFICE 24VDC 221850

ADVANCED POLYETHYLENE (APE) TUBING

- 50% reticulated material
- Balance between flexibility and pressure/temperature resistance
- Resistant to a wide range of aggressive chemicals
- UV-stabilised: ideal for outdoor applications
- Approved for contact with foodstuff and beverages

legris

144-7831	BLACK 8X5,75 DRUM 150M	1015Y08F01
144-7829	BLACK 6X4 DRUM 150M	1015Y06F01
144-7828	INCOLOR 6X4 DRUM 150M	1015Y06F00

Browse thousands more products online **sg.rs-online.com/food**

SINGLE PIECE REDUCED BORE BALL VALVE

- Reduced port, 1/4" - 3" (DN8 - DN80)
- W.P: 1000WOG (PN63)
- W.T: -20°C to 200°C (-4°F to 392°F)
- Investment casting
- Blow-out proof stem
- Anti-static device (option)
- Locking device
- Thread type: ASTM B1.20.1 (NPT) DIN2999 & BS21 ISO7/1 & EN10226

499-2789	1/4IN BSPP F-F
499-2795	1/2IN BSPP F-F
499-2802	3/4IN BSPP F-F
499-2818	1IN BSPP F-F
499-2824	1 1/4IN BSPP F-F
499-2830	1 1/2 INCH BSPP F-F
499-2846	2 INCH BSPP F-F

STAINLESS STEEL BALL VALVE WITH ELECTRIC ACTUATOR

- Body - CF8M - 316 S/S
- Ball - 316 S/S
- Stem Seal - PTFE
- Ball Seal - PTFE
- 1,000 PSI Rated
- Enclosure Rated Weather proof IP67
- Motor: 24Vdc
- Multi voltage 24Vdc, 95-240Vac
- Limit Switches 2 x open/close SPDT, 250Vac 6A rating
- Auxiliary Limit Switches 2 x open/close SPDT, 250Vac 6A rating
- Indicator LED lamp Indicator (Open/Close)

760-5700	1/2IN. BSP S/STEEL
760-5687	1IN. BSP BRASS

FLOAT AND THERMOSTATIC STEAM TRAP

- Connections are female screwed
- Modulating discharge
- Discharges condensate at steam temperature
- Unaffected by sudden or wide load and pressure changes Excellent air discharge (by thermostatic air vent)

720-9229	3/4IN. 14BAR FLOAT STEAM TRAP BSP
720-9232	1IN. 10BAR FLOAT STEAM TRAP BSP

REMOTE READING EXPANSION THERMOMETER

- 100 mm centigrade dial Dry Thermometer with bi-metal movement
- Supplied with a surface mounting back flange
- Acrylic window with steel cover

431-5586	-20 TO +60DEGC&F
431-5592	0 TO +120DEGC&F

INDUSTRIAL SOLENOID VALVES

- Made from forged brass
- Pilot operated
- Choice of 230 V ac or 24 V dc operation
- 2 port, normally open (NO) and normally closed (NC)
- Liquid or gas use
- Full range of sizes from 3/8 in to 2 in

144-0812	SOLENOID VALVE 1/2" NO 220VAC

HEAVY DUTY SELF-RETRACTING HOSE

- 180° pivoting wall bracket
- Includes carrying handle and 1.5m feed pipe
- 1/2inch BSPT male connector
- Auto lock fitted with rollers for smooth retraction

911-9447	10MM ID, 15M
911-9443	8MM ID, 9M

SPRAY GUN

- Adjustable screw to vary cone width from 0° to 60°
- Covered by semi housings of non-stainable shockproof plastic, entirely sealed and with 3 rubber protective rings
- Ergonomic construction
- Gun is suitable for use up to 24 bar, 2.4 MPs rated pressure pumps
- Inlet swivel connection
- Internal structure in made of brass and stainless steel
- Plastic trigger protected by hand guard

175-6264	1/2" BSPF

SILICONE TRANSPARENT TUBING

- Flexible silicone tubing is suitable for use in most peristaltic pumps
- Length of 3 m
- Bore size of 3.2 mm
- Suitable for contact with food
- Peristaltic pump compatible
- Density of 1.16 g/cm³
- Shore A hardness of 62
- Elongation of 385% (approx)

667-8444	3.2MM BORE
667-8448	4.8MM BORE
667-8457	6.4MM BORE
667-8450	8MM BORE

FOOD & BEVERAGE INDUSTRY
PNEUMATICS, HYDRAULICS & POWER TRANSMISION

A wide range of pneumatic and hydraulic parts, components and solutions you need for creating a purpose-built system or parts to update, maintain or repair your current system.

Pneumatics, Hydraulics & Power Transmision Highlights

Browse and shop the entire range of Pneumatics, Hydraulics & Power Transmision products online at **sg.rs-online.**

SKF FOOD LINE STAINLESS STEEL DEEP GROOVE BALL BEARINGS

- Prelubrication with high-quality grease registered by NSF as category H1 A nitrile rubber seal material that is coloured blue for optical detectability and is compliant with FDA and EC recommendations
- Stainless steel (440C) for inner ring, outer ring, rolling elements and cage
- Stainless steel backing plate for the seal

SMT/SME-8M SERIES T-SLOT PROXIMITY SENSORS

- Compatible with all Festo T-Slots
- 24 V dc Operating Voltage
- Non-contacting or contacting sensing

SKF

125-1229	10MM DEEP GROOVE BALL BEARING 26MM O.D	W 6000-2RS1/VP311
125-1240	20MM DEEP GROOVE BALL BEARING 47MM O.D	W 6204-2RS1/VP311
125-1236	8MM DEEP GROOVE BALL BEARING 22MM O.D	W 608-2RS1/VP311
125-1241	25MM DEEP GROOVE BALL BEARING 52MM O.D	W 6205-2RS1/VP311
125-1242	30MM DEEP GROOVE BALL BEARING 62MM O.D	W 6206-2RS1/VP311

FESTO

121-5824	3 WIRE 0.3M	MSP-40-SS

SHAFT COLLAR TWO PIECE CLAMP SCREW

- The clamp style design does not mar the shaft, is easy to remove, and is indefinitely adjustable.
- Is commonly used for guiding, spacing, stopping, mounting, and component alignment.
- Equipment manufacturers benefit from the tightly controlled face to bore perpendicularity of Ruland shaft collars, TIR of ≤ 05mm.

SKF CAHB-10 SERIES LINEAR ACTUATOR

- Compact design
- Robust and reliable
- Designed for harsh environments
- High load capacity
- Lubricated for service life
- Durable, lightweight and corrosion resistant

RULAND

174-6784	40MM OD 60MM W 15MM	MSP-40-SS

EWELLIX

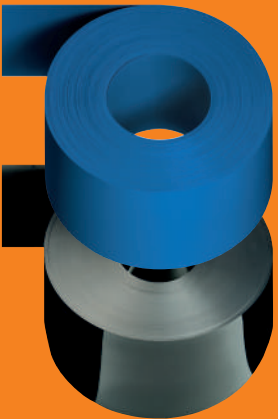|		
764-3477	LINEAR ACTUATOR CAHB-10 STROKE 50MM 24V	CAHB-10-B3A-050158AAA000-000

motion?... plastics!

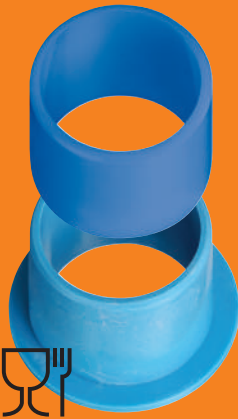## for the food and beverage industry

igubal®
spherical Bearings
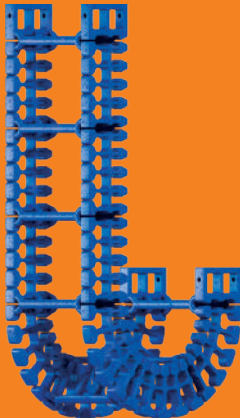
xiros®
Ball Bearings

tribo-tape
Low friction Liner

iglidur®
Plain Bearings

xiros®
conveyor rollers

Hygienic e-chain®

chainflex®
Dynamic cables

Lubrication-free, hygienic, Food Grade

▶ easy to clean
▶ corrosion and chemical resistant
▶ lightweight
▶ high-performance plastic that offer
  safe and reliable operation

igus®

CLEAN DESIGN CYLINDER FOR FOOD INDUSTRY

- Hygienic and self-adjusting PPS cushioning
- Easy-to-clean cylinder profile without corners and indents
- Corrosion-resistant cylinder surface
- Standard dimensions and mounting accessories to ISO 15552
- NSF-H1 lubricant and special wiper seal (characteristic A3) suitable for contact in the food area. Long service life even with insufficient lubrication due to frequent cleaning processes

FESTO

Search **'dsbf'** or scan QR code for over 100 product options

COMPRESSED AIR FILTER-REGULATOR

- Vertical assembly position
- Manual rotary condensation drain
- Standard nominal flow rate of 5,600 l/min
- Optional mounting type of either front panel or line installation
- G1/2 pneumatic connection
- Aluminium die cast housing material
- Rotary knob with lock actuator

FESTO

121-5670   MS6-LFR-1/2-D6-CRM-AS

COMPRESSED AIR FINE FILTER

- Fully automatic monitoring and regulation of compressed air supply
- Automatic shut-off of the compressed air in stand-by mode
- Detection and notification of leakages
- Condition monitoring of relevant process data

FESTO

Search **'ms6-lfm'** or scan QR code for over 30 product options

COMPRESSED AIR ACTIVATED CARBON FILTER

- Fully automatic monitoring and regulation of compressed air supply
- Automatic shut-off of the compressed air in stand-by mode
- Detection and notification of leakages
- Condition monitoring of relevant process data

FESTO

202-3518	3/8-R	MS6-LFX-3/8-R
202-3354	1/2-U	MS6-LFX-1/2-U
202-3353	CARTRIDGE	MS6-LFX
202-3404	AKI CARTRIDGE	MS6-LFX-AKI
202-3398	1/2-R	MS6-LFX-1/2-R
202-3377	1/2-R-Z	MS6-LFX-1/2-R-Z
202-3327	1/4-R	MS6-LFX-1/4-R
202-3362	1/4-U	MS6-LFX-1/4-U

SOLENOID CONTROL VALVE

- In-line valve - designed to be used without pneumatic linking. All pneumatic connections are on the valve and can be equipped with fittings/tubing.
- Piston spool with sealing ring design principle
- 5/2 Way Monostable valve function
- Internal pilot air supply
- G1/4 thread pneumatic connection

FESTO

121-5898   5/2 WAY   VUVS-LK25-M52-AD-G14-1B2-S

FOOD GRADE PNEUMATIC FITTINGS

- Effortless selection of the right fitting.
- Festo offers a secure solution for every connection.
- The convenient push-in fitting system includes well over 1000 types of standard and function fittings.

FESTO

Search **'npqh'** or scan QR code for over 150 product options

HYDOLYSIS RESISTANT TUBE

- Hydrolysis-resistant and suitable for water applications.
- Combination suitable for use in cleanrooms, FDA-compliant and corrosion-resistant as it is made of 100% polymer.
- Very easy to install thanks to the "one click principle"

FESTO

Search **'pun-h'** or scan QR code for over 50 product options

ANGLE SEAT MEDIA VALVE

- Modular, hygienic design, insensitive to dirt
- Quick and easy maintenance
- Control of medium flows (gaseous and liquid) in closed and open circuits
- The angle seat valves VZXA are simple and sturdy and are thus perfectly suitable for almost all media with a viscosity of up to 600 mm²/s
- The angle seat valves VZXA made from stainless steel with PTFE seals have high chemical and thermal resistance
- Also suitable for vacuum applications
- Temperature of medium –30 ... +200°C

FESTO

Search **'vzxa'** or scan QR code for over 20 product options

FDA APPROVED PINCH VALVE

- The pinch valve is a 2/2-way valve used to control liquid and powdery media, solids as well as a mixture of substances.
- Easy-to-clean housing (clean design)
- Open or closed in normal position
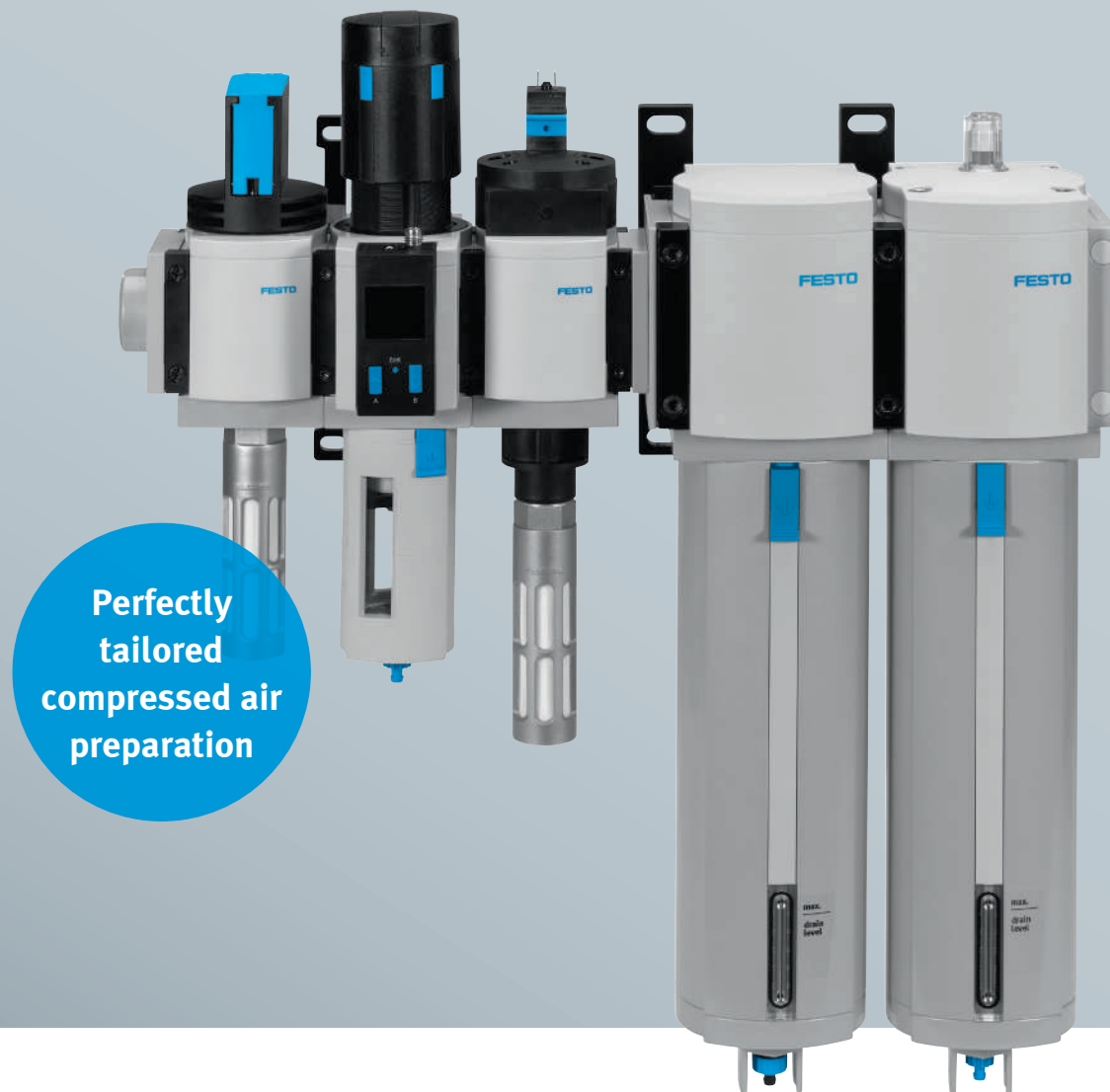- Shut-off element made of elastomer

FESTO

Search **'vzqa'** or scan QR code for over 30 product options

Browse thousands more products online **sg.rs-online.com/food**

Air quality that continuously meets ISO standards for the food industry

FESTO

Perfectly tailored compressed air preparation

The right compressed air quality every time.

If you want to improve the reliability of your systems, you need to look at your compressed air supply. In the food and beverage industry, strict demands are made of compressed air quality in order to ensure the highest possible level of food safety.

The ISO 8573-1:2010 standard defines maximum permissible levels of particles, water and oil which may be present in compressed air for various applications.

Festo can tailor air preparation precisely to your application. Just combine the highly functional service units from our MS series to obtain air preparation which precisely delivers the air quality you require. **Get your filtration systems up to standard and meet purity-class requirements with Festo!**

RS PRO

CFM PNEUMATIC CABINET COOLER

- Uses compressed air at 5-7 bar
- Fits into a 3/4 in BSPP (British Standard Parallel Pipe) clearance hole in the cabinet wall
- Maximum flow rate of 35 CFM
- Maximum cooling capacity of 1,500 Btu/h
- Fed through 1/4 in BSP air inlet
- Pressure relief valve
- Height of 196 mm
- Diameter of 45 mm
- Stainless steel body
- Control device not included
- Conforms to ANSI/ESD S20.20:2014 and BS EN 61340-5-1:2007 Electrostatic Control Standards

RS PRO

291-5386 1500BTU/H 35CFM

PNEUMATIC CABINET COOLER

- Pressure range of 5-7 bar
- Cools cabinet volumes of up to 2 m³
- Maximum flow rate of 35 CFM
- Maximum cooling capacity of 1,500 Btu/h
- Diameter of 45 mm
- Height of 333.5 mm
- Stainless steel body
- Control device not included
- Conforms to ANSI/ESD S20.20:2014 and BS EN 61340-5-1:2007 Electrostatic Control Standards

RS PRO

445-3060 1500BTU/H 35CFM

F4 SERIES ADJUSTABLE PRESSURE SWITCH

- Fitted with a mechanical stop to prevent damage from over pressurisation
- Can be mounted in any orientation
- 90 Cycles/min switching frequency
- Long mechanical life (10^6 cycles at 70bar)
- 0.5A maximum load (at 250 VAC)
- Accuracy 4% of set pressure
- Fixed Hysteresis 10-25% (Dependent upon version)
- DIN 43650 Electrical connection

RS PRO

297-0052 1-12 BAR
297-0046 0.2-2.5 BAR

VACUUM PRESSURE GAUGE 0BAR

- Maximum Pressure Measurement 0bar
- Vacuum Pressure Gauge Type
- Gauge Outside Diameter 100mm
- Stainless Steel Case Material
- Minimum Operating Temperature -40°C
- Maximum Operating Temperature +60°C

RS PRO

188-986 0-30HG

ELECTRIC LINEAR ACTUATOR

- Input voltage 24V DC
- Max. load 500N (push/pull)
- Speed: 13.5 mm/s (full load) 14.6 mm/s (no load)
- Stroke length: 100 mm
- Aluminium grey in colour
- Quiet yet powerful
- Preset limit switches
- Minimal operational costs
- Energy efficient

RS PRO

177-4490 24V DC, 100MM STROKE

AUTOMATIC DRAIN VALVE - 240V 50HZ

- Precise self-activated control of fluids and air to a specified programme (media: air, gases, oo, oil etc.)
- Automatically opens for a set time to drain condensation
- Length of time open (0.5 to 45 minutes) and frequency both adjustable
- Discharge time 0.5 to 10 seconds
- Minimal risk of internal blockages due to increased internal tolerances
- LED indicator for operational status

RS PRO

725-125 AUTOMATIC DRAIN VALVE

COMPACT POLYURETHANE SELF-COIL AIR HOSE

- For use with air tools, instrumentation lines, robotics and many other industrial applications
- High flexibility, resistant to abrasion oils and kinking
- Compact size;500mm/100mm hose tail lengths
- Operating temperature range -20°C to +75°C
- Not for use in low positive pressure or vacuum systems.

RS PRO

700-5664 4M LX8MMOD
700-5667 6M LX8MMOD

K3 SERIES ADJ HYDRAULIC PRESS SWITCH

- Adjustable via a screw located in the centre of the instrument
- Incorporates a mechanical stop providing over-pressure protection for spring and microswitch
- DIN 43650 connector

RS PRO

363-5968 1-10 BAR K3 SERIES
296-9989 2-40 BAR K SERIES

STANDARD DUTY POLYURETHANE TUBE

- Highly flexible, cut and abrasion resistant
- Silicone free
- Ideal for pneumatic control and chemical transfer lines

RS PRO

917-2381 BLUE, 5MM ID, 8MM OD
917-2397 BLUE, 9MM ID, 12MM OD
917-2400 CLEAR, 4MM ID, 6MM OD
917-2371 BLACK 7.5MM ID 10MM OD

RS PRO VALUE   RS PRO APPROVED   RS PRO CHOICE

DOUBLE UNIVERSAL JOINT WITH NEEDLE BEARING

• Carbon steel universal joints for connecting equipment where there is a misalignment greater than 5 degrees up to an angle of 90 degrees.
• Fitted with needle bearings lubricated for a lifetime and requiring no maintenance, suitable for applications with speeds of up to 4000 rpm.
• Smooth and silent operation, suitable applications include connection of conveyers, line shafts and drive shafts.

790-6807	10MM BORE
790-6813	16MM BORE
790-6823	25MM BORE

CHAIN TENSIONER CTC

• Considerably reduces drive vibration and noise.
• Is truly "fit and forget" enabling high drive reliability and very low maintenance costs

901-0053	DIN CODE 12B-1, 420N
901-0047	DIN CODE 08B-1, 250N

STAINLESS STEEL DEEP GROOVE BALL BEARINGS

• Shielded
• Good radial load capacity
• Ideal for high speeds
• Long operating life

188-3293	15X35X11MM
188-3295	20X47X14MM
188-3281	15X32X9MM
188-3331	25X52X15MM
893-7272	25MM ID 47MM OD
893-7323	8MM ID 22MM OD

SHAFT SEALS

• Replaceable without damage to the housing bore
• No need for circlips, sealants or retaining plates

211-9005	25X35X7MM
211-9011	25X47X7MM
211-9027	25X52X10MM
211-9055	30X40X7MM
211-9061	30X42X7MM
211-9162	40X55X7MM
211-8967	20X35X7MM

O-RING KIT VITON®

• Essential for all workshops and onsite service engineers
• Range of sizes – no need to purchase individual O-Rings
• Quick identification and easy storage for multiple O-Ring sizes
• Robust casing suitable for transport
• The kit contains 510 pieces in 18 different sizes
• 75 Shore A
• The material of the rings are resistant to petrol, oil and hydraulic oil
• Viton® A O-rings have a high chemical and temperature resistance alongside a low compression set

756-040	IMPERIAL
245-9628	METRIC

DELRIN SPUR GEARS

• Tensile strength 94N/mm²
• Hardness (Rockwell R) 110-120 20° Pressure angle

521-6991	SPUR GEAR - 0.5 MODULE 15 TEETH
521-7231	SPUR GEAR - 0.8 MODULE 12 TEETH
521-7455	SPUR GEAR - 0.8 MODULE 80 TEETH
521-6064	MITRE GEAR,1.5 MODULE

NITRILE O-RING CORD

• An economical and versatile solution for creating seals on the job.
• You can use it for applications as diverse as engines and beer taps.
• Length of 8.5 m

138-1600	DIA. 2MM
138-1602	DIA. 3.5MM
138-1604	DIA. 4.0MM
138-1605	DIA. 4.5MM
138-1607	DIA. 5.33MM
138-1606	DIA. 5MM
138-1608	DIA. 6MM
138-1610	DIA. 8MM

STAINLESS STEEL SHAFT COLLARS

• Industry standard
• Interchangeable
• Common type
• Anti-corrosion finish

122-3452	BORE 12MM
122-3453	BORE 14MM
122-3455	BORE 16MM
122-3456	BORE 18MM
122-3457	BORE 20MM
122-3460	BORE 25MM
122-3461	BORE 30MM
122-3449	BORE 6MM
122-3450	BORE 8MM

GREEN ROUND POLYURETHANE BELT

• Hardness of 88 Type A
• Minimum operating temperature of -30°C
• Maximum operating temperature of +80°C
• Not food certified

309-8123	5M L X 5MM DIA
309-8139	5M L X 6MM DIA
309-8145	5M L X 8MM DIA

FOOD & BEVERAGE INDUSTRY
TOOLS & CONSUMABLES

Quality tools, fasteners & fixings, adhesives, sealants, tapes and more to get the job done.

Tool & Consumables Highlights

Browse and shop the entire range of tools & consumables products online at **sg.rs-online.com**.

NIPPER CABLE CUTTER

- Black corrosion resistant pliers Polished head
- Plastic coated handles
- Length 280 mm

KNIPEX

| **136-7418** | END CUTTING | 68 01 280 |

SOLDERING IRON WITH BUILT-IN SOLDER FEED

- 50 W soldering iron with built-in mechanical system for solder feed
- Compatible with 0.6 mm → 1.6 mm diameter solder wire

HAKKO

| **431-9897** | 50W | 951-02 |

XCELITE FINE POINT DIAGONAL KNIFE BLADE

- Scalpels for delicate work
- Knurled end for more secure handling and a firm grip

Weller Xcelite

| **675-6709** | FINE POINT DIAGONAL (PACK OF 5) | XNB103 |

TEMFLEX 1755 RUBBER BLACK CLOTH TAPE

- PVC insulation tape with good electrical and mechanical properties
- High dielectric strength 40 kV/mm
- Self extinguishing
- Good resistance to abrasion, moisture, alkalis, acids, corrosio, varying weather conditions and ultraviolet exposure

3M

| **840-9026** | 19.1MM X 18M, 0.33MM THICK | 1755-3/4X60FT |

FOOD SAFE SILICONE SEALANT PASTE

- Conforms to BS5889 Type B
- Fast cure
- High modulus-acetoxy cure type

Dow Corning®

| **459-0232** | 310 ML CARTRIDGE | 6011088 |

Browse thousands more products online **sg.rs-online.com/food**

METRIC WORKSHOP RANGE JOBBERS DRILLS

- 5% Cobalt High-Performance HSS-E Drill bits.
- High-Temperature strength without sufficient coolant
- 135° non-slip split point for precise centring
- Direct drilling without the need for prior centring or drilling a pilot hole
- Cuts faster and lasts longer than regular HSS drill bits
- 0.5 mm increments

216-690   1-13MM
216-678   1-10MM

UNIVERSAL CABINET CROSS WRENCH KEY

- Multifunctional tool - convenient and easy to use on many utility systems
- Unique adapter that converts to an emergency screwdriver
- 8 different key types
- Solid die-cast construction
- Double-ended screwdriver bit with PH1 and 1 x 7mm Slotted ends
- Adaptor attached to create a pocket screwdriver
- 6 and 8mm square, 9mm triangular and 5mm double-pin type keys

841-7005   70MM X 14MM X 70MM

HYDRAULIC PULLER SET

- High quality, forged steel provides superior reliability and service
- Precise hydraulic control allows fast, efficient and safe pulling
- Comes in a carrying case
- 8-ton hydraulic power unit
- Portable

349-7261   25 PIECE

VDE ELECTRICIANS TOOL KIT

- Ergonomic multi-component handles
- Optimum balance of torque and control
- High quality and professional tools
- VDE approved for electrical safety
- Made from chrome vanadium steel
- Ideal for a wide range of applications
- Sturdy tool case

734-8885   88PC 1/2IN. SOCKET & VDE TOOL KIT

TUBE CUTTER

- Easy to handle
- Polyacetal body stainless steel blades
- Precise design
- Ruggedness
- Simple to use

172-8969   3MM - 15MM

LATCH CLAMP

- Large and quick opening
- Galvanized and passivated
- Rivets made of stainless steel
- Bearings are pre-lubricated

254-800   200NM

SWITCH KEY UNIVERSAL WRENCH

- Multi-purpose enclosure key wrenches designed for use within maintenance & service applications
- The four arms of the tool offer five differing drive possibilities
- Available with either a bright chrome or zinc plated finish

439-3025   ZINC FINISH
439-3019   CHROME FINISH

RETRACTABLE AUTOMATIC KNIFE STANDARD BLADE

- Aluminium-bodied safety knife with automatic blade retraction
- When cutting, the blade remains outside the body, but when pressure is relaxed the spring loaded blade retracts into the handle
- Supplied with one blade

615-9164   AUTOMATIC

AUTOMATIC WIRE STRIPPER

- Precision carbon steel laminated stripping blades
- Compact pistol grip design for increased control and a smooth stripping action
- Adjustable sliding wire stop to preset exact stripping lengths
- Shielded cutter for safety
- Constructed from high grade polymers and Carbon Steel for durability and long tool life

243-257   197 MM 0.2-6SQ.MM

PALLET WRAP

- Stretch and seal food grade film supplied with re-usable handle

329-5920 100MMX 100M (PACK OF 10)

COIN/BUTTON CELLS, SILVER OXIDE

- Higher the capacity the longer life time
- Non-Rechargeable
- Wide operating temperature range
- Resistant to vibration, shock and acceleration
- Stable and steady performance and feature low internal resistance

593-423 RS SR44 COIN CELL BATTERY, 1.55V

LEAD ACID RECHARGEABLE BATTERY

- 5 years standby design
- Float Standby use
- Low gas emissions 99% plus recombination
- Excellent recovery from deep discharge
- Leak-proof – Sealed lead acid (SLA) battery
- ABS resin case to UL94-HB fire resistance (Horizontal Burning Test)
- Road transport to UN2800 (Batteries, Wet, Non-Spillable)
- Air Transport to Special Provision 'A67' 'IATA' & 'ICAO'. (Batteries, Wet, Non-Spillable)

537-5488 RS SEALED LEAD-ACID BATTERY,12V 7AH

TRANSLUCENT SQUEEZE BOTTLE

- Squeeze bottle for use with cleaner, oil, solvent and other liquids
- Capacity of 225 ml
- Translucent colour
- Made from polypropylene (PP)
- Can release single drops or fine streams

548-4289 225ML

BLACK PVC SEALING STRIP

- High strength adhesive to keep foam in place during assembly
- Excellent resistance to weather, fungi and oxidation ensures a long seal life
- Closed cell construction gives a positive seal at only 30% compression and requires less material to seal than open cell foams
- Easy peel liner prevents stretching during installation
- Single-Sided Tape
- Various applications, air conditioning, telecommunications, aircraft, marine and automotive industries

205-0906 25MM X 10M, 10MM THICK

A4 STAINLESS STEEL HEX NUTS - METRIC

- Ideal for use in chemical processing equipment and marine environments due to its higher resistance to tarnish and corrosion.
- Metric hex nuts
- To DIN934
- A4 grade 18/8 stainless steel (Type 316 S16) – long lasting
- Good resistance to corrosion and saltwater
- Due to the hexagon nut having six sides it makes it easier to work with and is very versatile
- Easy to tighten and loosen

189-591 M6
189-585 M5

BLACK SELF AMALGAMATING TAPE

- Easy unwind
- Extremely flexible
- Resistant to water, ozone and UV
- Excellent low and high temperature performance
- Excellent conformability to awkward shapes
- Breaking load is 20.0N/cm
- Elongation is 600%

146-8998 25MM X 10M

A4 STAINLESS STEEL PLAIN WASHER - METRIC

- RS PRO washers are an essential part of any fastener assembly, as they serve to incorporate spacing and distribute load when placed between a nut and bolts.
- These washers will help prevent wear and distortion of installation surfaces over time.

189-664 M8

COLOPHONY-FREE TIN/ LEAD SOLDER WIRE

- Versatile soldering wire that can be used for a wide range of soldering tasks
- Alloy used consists of 60% tin and 40% lead
- Melting point between 183-188°C
- Low odour formulation with 1.1% flux content
- Soldering iron typical tip temperature for this solder wire is 320-360°C

800-7661 0.7MM
756-8871 0.4MM

Our Solutions

Our solutions support you across the product lifecycle through design, build and maintain.

We can also give you advice on flexible delivery options, cost-saving ways to help you manage your inventory and procurement, through to preventative maintenance and eCommerce solutions.

Product Support

- We offer easy access to product support resources online or by phone.

- Our Customer Services team can help understand your needs offering product support or directing your enquiry to a qualified engineer.

- Speak to a live chat member on our website for help in finding products or other technical information.

- Or take a look at our technical data sheets which are available at product level. This can help save time, allowing you access to technical information 24/7.

Delivery and Invoice Options

With a range of flexible delivery and invoicing options all designed to suit you

- Fast and flexible delivery and consolidated delivery, we've a range of flexible delivery options to suit you.

- Stay in control of your spend and reduce your purchase to pay costs with our invoicing and payment services.

✅ Procurement Solutions

We have different solutions to help you manage your RS orders. From simple web tools to integrated eProcurement solutions.

Our procurement solutions support customers with complex needs to drive vendor consolidation, reduce costs, improve productivity and deliver innovation.

Product Plus

RS Product Plus is an exclusive service for customers looking to consolidate their spend. Our specialist team can support your requirements and help you source products not published on our website.

Using our expertise and relationships with over 2,500 key manufacturers, we provide access to over a million products. We will also let you know if we find an alternative product offering extract functionailty or value for money benefits.

*   **Consolidate your vendors:** saving time managing multiple suppliers and reducing purchase-to-pay costs

*   **Leverage your spend:** by placing your orders with fewer suppliers

*   **Save time and speed up sourcing:** as there's no need for your teams to search and negotiate with multiple suppliers

eCommerce Solutions

For a more efficient process for your industrial and electronics product procurement, we have a service to fit your business requirements. From web-based and mobile ordering through to integrated procurement solutions.

PurchasingManager™

A free web order management solution that helps you manage your spend, whilst providing visibility of orders placed through the RS website.

PunchOut

Integrated into your own eProcurement system, providing fast and easy access to our full product range and purchase information.

eOrdering

Fast and secure ordering direct from your system to ours. Improves accuracy by eliminating order and invoicing errors.

eInvoicing

Fast and secure invoicing direct from our system to yours. Eliminates paper, whilst saving you time and money in administration processes.
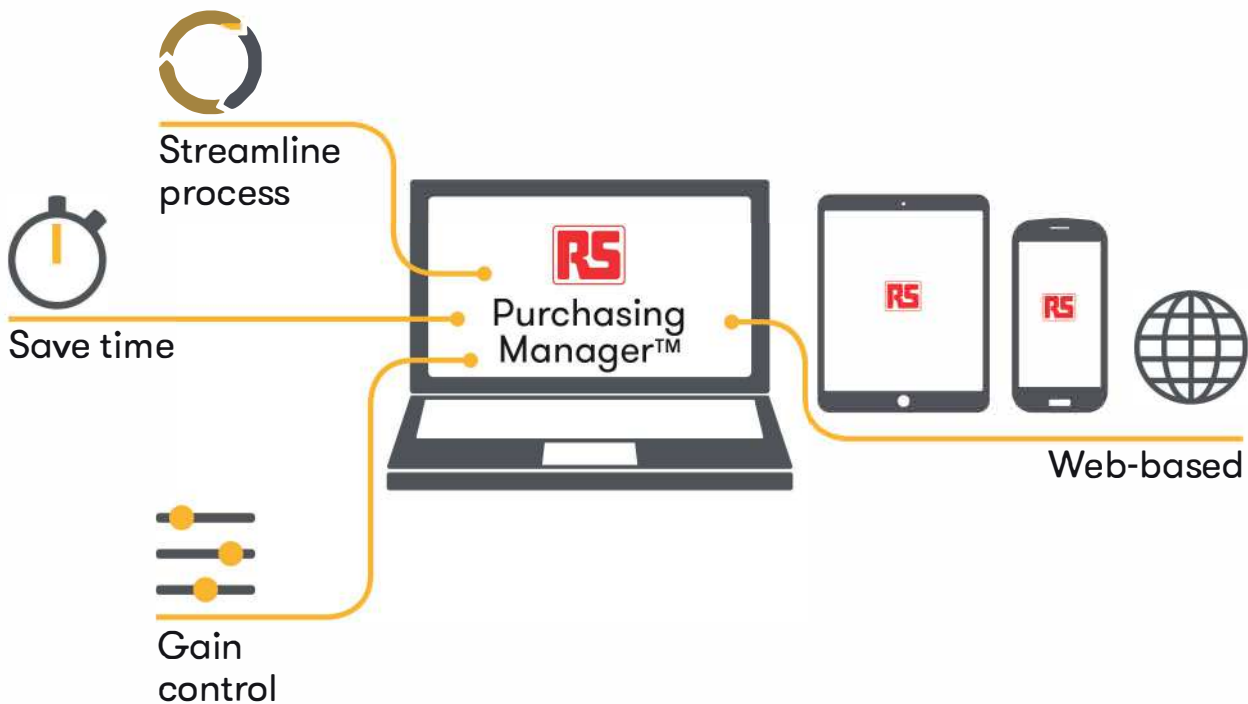
Learn more at sg.rs-online.com/services or contact our team

Streamline your processes, gain control & reduce costs

Conventional procure-2-pay processes are often ineffective for indirect materials; attracting many hidden costs, creating delays, and using valuable internal resources.

Streamline process

Save time

Gain control

Web-based

With RS Purchasing Manager®, our web-based order management and procurement system, you can gain control of spend and save time.

Ease of ordering - Find what is needed quickly, with simple ordering processes that allow your people to focus on critical activities

Remote Access - With many key organisations facing enhanced numbers of remote and field workers, ordering and approval activities need to be easy and flexible

Visibility & Control - Managing capital is important – businesses need rapid access to items without compromising balance sheets

Social Distancing - To help prevent the spread of Covid-19, updated processes and limiting human interactions are essential

Cut costs and take control with an RS eCommerce Solution

If multiple people across your organisation are placing large numbers of low-value orders, you have little control over who's ordering what. And you're almost certainly wasting both resources and money. You could also be losing valuable production time if the ordering process only starts when a part or item needs replacing. Delays can occur while the purchasing process lumbers into action – meaning costly downtime. The good news is there's a simple and effective way to cut your company's procurement costs and gain control of your budget spend.

Purchasing action	Average process cost	The difference with an RS eCommerce Solution
Searching for supplier and product	$21.76	Direct access to our inventory of over 500k products means less time shopping around. You can search directly for the parts you need with our eCommerce Solutions.
Placing the order	$40.80	Check stock availability, prices and technical data instantly. No more inaccurate data, time-wasting repetition or needless manual input.
Chasing supplier and receiving delivery	$25.84	Count on us for on-time deliveries and efficient fulfilment.
Processing invoices	$42.16	We can support fast and efficient eInvoicing or consolidated monthly summaries, personalised to suit your business.
Paying supplier	$5.44	Our eInvoicing capabilities ensure easy invoice reconciliation and quicker payment processing.
	$136.00 Total process cost	A simplified procure-to-pay process, saving you money

Cutting the MRO costs of a confectionary giant

RS has helped a leading confectionery manufacturer achieve significant cost savings in the indirect procurement process through its Purchasing Manager™ system.

End inefficient, costly procurement processes

Procurement teams and engineers face a number of challenges when it comes to the maintenance, repair and operation of their organisation's assets and facilities. The supply chain for indirect materials is complex due to the number of stakeholders involved, a fragmented supply base and the sheer number of products split across multiple categories. In addition, there is constant pressure from senior management to reduce costs.

As one of the largest suppliers of industrial supplies, RS is in a unique position to understand the complex needs of its customers and to help these businesses improve their processes and make efficiencies.

The crucial statistic for organisations to understand is that with indirect procurement, process costs can be twice as much as the amount spent on the products themselves. So if your organisation spends $170,000 on purchasing products over the course of a year, you will spend a further $340,000 on processing or 'soft costs'.

2:1

Indirect (MRO) process costs

Indirect (MRO) product costs

As such, there is significant value in reducing process costs, rather than focusing purely on the purchase price of individual items.

The challenge

An example of how RS has been able to help a customer take better control of its process costs is our work with a well-known confectionery manufacturer, a market leader within its category with a turnover in excess of $170 million.

RS has worked with this company for a number of years, supplying a wide variety of products. This includes electrical and automation products, PPE equipment, tools and test equipment, which are used by maintenance engineers to help keep operations running.

As a large organisation, the confectionary manufacturer had a long-term plan to streamline their purchasing process, which included reviewing all indirect spend. The procurement department was challenged to reduce admin and bureaucracy around the purchasing process so that it would be quicker and require less input from multiple stakeholders across the business.

Typically, the customer was spending significant time locating suppliers who had the products they needed and then comparing quotes; raising POs with a finance team; and arranging for delivery to be achieved in a time that didn't impact the day- day business.

They also felt there was a great deal of duplication and manual entry of information during purchasing. In short, the process was delaying procurement of low-value products, while taking valuable time away from employees' core responsibilities.

The solution

The first step was to process map the company's current procure-to-pay process. This was led by RS's dedicated team of eCommerce specialists and the customer's key stakeholders then, using a process cost calculator (produced in collaboration with Chartered Institute of Procurement & Supply), it was possible to calculate the time taken for each process step in order to produce the total cost to the company for every order they place.

By doing this, it was identified that each PO raised, took 88 minutes from end to end, costing $126 per order. For RS alone, they were placing over 200 orders annually, with a similar number of orders being placed with multiple suppliers.

RS found that the simplest way to remove many of the issues (and additional cost) in the process was to introduce PurchasingManager™ to the customer. PurchasingManager™ is a web-based, order management system used alongside the RS website. Buyers can create account structures across their organisation, assign spend controls, cost centres and approval limits to help manage all RS Online purchasing.

The system allows the end user, usually an engineer, to go onto the RS website, choose the product they need, order it and see when the delivery will be made. Behind the scenes a confirmation request is sent to a senior colleague who can quickly approve the cost and the order is processed.

PurchasingManager™ addressed the authorisation process and became the only authorisation required to approve an order from RS. Once an order is approved, it is sent directly to RS without procurement being involved. The confectionery customer was able to use a single monthly blanket order rather than individual POs, meaning that the only PO processing now takes place at the end of the month.

The existing process was unnecessarily complicated:

- An engineer would choose a basket of goods, raise a paper requisition and send it to their superior for authorisation

- Once this authorisation was granted the requisition was sent to procurement. Procurement would then check the price online before raising a purchase order

- The purchase order would need to be signed off by the head of procurement before the PO was emailed to RS for fulfilment

- Once the goods were delivered, a three-way match was needed between the email request, the PO on their system and the individual invoices

The outcome

The customer now has a simplified workflow with empowered end users, which has significantly reduced processing costs, enabling all functions involved in the indirect purchasing process to focus on value added activities in their respective roles. The customer has moved from an average cost per order of $126 before PurchasingManager™ was introduced, to $78 now. The number of orders also increased to 1,089 annually as they consolidated more orders with RS, reducing their supplier base. Based on the new cost per order, this equated to a $51,836 saving annually compared to their old process.

The entire purchasing process has been greatly speeded up, more employees are ordering from trusted suppliers (rather than using local or online purchases), which improves contract compliance, and parts are being successfully delivered when engineers want them, which means there is far less downtime.

The result is that the customer has gone from an inefficient, costly process with too much duplication of tasks and a lack of clarity to becoming highly efficient with real transparency throughout the purchase-to-pay process.

$51,836 (3.7 weeks)

Savings per year   **Time per year**

Do you want help to knock down your costs?

It's easy
You don't need to spend time comparing prices for your entire order. Just give us your bill of materials or existing manufacturer part number & we'll do it all for you.

We've got all you need with FREE* fast delivery
With over 600,000 products available you won't need to call around lots of separate or specialist suppliers.

*Free delivery available. See sg.rs-online.com/delivery for details.

Contact us to discuss how we can help you save:

✉ **Quote.SG@rs-components.com**

📞 **+65 6865 3400**