



MRO ISSUE #6 Solutions

Safety & Maintenance

Helping you keep your workforce and site, safe and compliant.



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WELCOME

Making sure your workplace operates safely is vital, not only to avoid injury to you and your colleagues but to also ensure you remain compliant with the law..

Personal safety is a crucial component of health and safety requirements, however, you must not ignore other critical safety areas, such as machinery safety, where legislative compliance is just as important.

Often considered separately and not given the same focus are electrical and general site safety, but all industrial sites must put procedures and measures in place to keep the workforce safe.

In this edition of MRO Solutions, we've highlighted some of the products from our extensive industrial workplace safety range, which can help you keep your workforce and site, safe and compliant.

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Regards,

Eileen Yap
Country General Manager
RS Components Singapore



How SEA Manufacturers Can Navigate Uncertain Times

The role of eSolutions and supplier consolidation in the extended lockdown

The extended nationwide full movement control order announced in Malaysia, which will be in effect until the COVID-19 pandemic is further contained, has affected manufacturing productivity and supply chains. The uncertainty around when restrictions would be lifted has led to a decrease in product demands, and supply chains are once again entering a period of disruption.

Building resilience in manufacturing and in the supply chains that we all rely on has become imperative for businesses. By taking the lessons we have learned over the last 18 months, leaders need to transform operations and embrace tech solutions. Alongside technology adoption and introducing new ways of working, many companies also need to cultivate a workplace culture where employees move forward with an agile and customer-focused mindset.

Keeping employees safe and productive through automation

Contrary to popular belief, one of the biggest challenges to digital transformation isn't old systems or aging infrastructure. Instead, it's the legacy mindset embedded in teams. Investing in people and collaboration play a critical role in removing information silos and old ways of working. Although buzzwords like digital transformation grab headlines, it's the relationships with your employees, suppliers, and customers that support recovery.

Putting people at the heart of the strategy is key to success but keeping employees safe and engaged while battling physical restrictions is particularly challenging for businesses in the industry. However, the emergence of the Industrial Internet of Things (IIOT), eSolutions, and automated machines are a few examples of how technology can turn these challenges into opportunities.

Automation and predictive MRO (maintenance, repair and operations) play a critical role in keeping your employees safe. Artificial intelligence-driven automation will quickly speed up processes. For example, the task of lining up materials needed for production can be delegated to machines. By increasing efficiency and reducing the need for manual labour, employees will have more time for strategic work across factory floors. Ultimately, a team of healthy and highly engaged employees will push businesses to be more proactive and better anticipate customer needs.

In addition to providing workers with protective workwear and personal protective equipment, traffic management and crowd control technology further increase site safety by reducing the number of people in an area and ensuring physical distancing rules are followed without impacting performance.

By investing in the automation of processes, manufacturers can also embark on a journey that takes them from preventive to predictive maintenance. The Internet of Things paved the way for the widespread use of predictive maintenance sensors that enable in-depth analysis and observation of any piece of equipment. Having this kind of insight can help businesses understand the optimal time to perform work on an asset. In addition, keeping maintenance time low and reliability high also helps remove unnecessary costs.

Taking a digital approach to procurement

The lockdown has impacted production lines and interrupted procurement processes. One of the biggest challenges we have seen over the last 18 months is that suppliers have been unable to operate, take orders, and replenish stocks on time to support their customer's production and spare part replacement. Responses to quotes and stock updates also took much longer to complete, while remote working was often blamed for longer internal PO approval processes and lead times.

It took a global pandemic to highlight the fragility of supply chains. It presented an opportunity to build a more robust, smarter, and more resilient manufacturing industry. As an industrial and electronics products and solutions provider across Europe and the Asia Pacific that has been in business for over 80 years, RS has been helping customers keep their business running smoothly by ensuring we have a diverse supply chain and strengthening our digital and logistics capabilities.

eSolutions are an example of how digitalisation enables a company to have better visibility and control throughout their supply chain, which in turn leads to faster decision-making, fewer errors, and more savings.

Finding the right parts to support factory projects and operations can be time consuming, especially for high volume and complex requirements. There are web-based procurement solutions available in the market which can be easily integrated to existing systems that shorten the sourcing lead time and simplify the process so that maintenance and engineering teams can improve efficiency. Digital procurement also makes real-time, data-driven analysis of cost and inventory monitoring possible.

At RS, we are looking 5 to 10 years ahead to understand what the future of manufacturing will look like in a world dominated by IoT and AI technologies. By accepting change and using it as a catalyst to innovate and drive growth, organisations can create a vision that inspires teams and allows the business to create more value to customers.

Choose quality over quantity when it comes to suppliers.

Finding the right balance between reducing costs while increasing efficiency is another big challenge in the manufacturing industry.

Long tail purchases, which are typically low volume or infrequent orders involving hard-to-find products can increase the supplier base. If they want to keep an eye on their budgets and drive efficiency in their logistics, procurement, and supplier relationships, companies must spend more time and resources on supplier management. This creates an additional hurdle for companies with a small procurement team or those who lack supply chain management experience.

Supplier consolidation is one of the more effective approaches used by procurement teams to address excessive indirect spending and incurring other costs due to inefficiency and errors throughout the process. Working with a few trusted suppliers gives a company better negotiation power so they can drive savings. Moreover, procurement teams can also focus on strategic, value-adding activities, instead of daily, administrative tasks, some of which can be automated or digitised by leveraging the right solutions.

A trusted supplier or distributor makes it possible to unlock improved visibility over spend data and inventory to examine exactly what the company is buying, at what costs, and how often. In addition to providing products when needed, we also provide customers with valuable data about their purchasing habits and work with them to identify potential savings.

Investing in the right technologies and supplier consolidation provides the transparency and flexibility needed to support long-term productivity and efficiency. Malaysian manufacturers and enterprises we partner with are already looking beyond the extended lockdown and are beginning to prepare themselves for post-lockdown demands in a dynamic and evolving market. For these reasons alone, we see the role of eSolutions and supplier consolidation to be a big topic in boardrooms for the foreseeable future.



Article By

Sean Er Lim
Country General Manager
RS Components Malaysia

Find out more at RS Online

SPOTLIGHT ON Machine Safety in the Workplace

Machinery is commonplace within factories and industrial environments, but it comes with risks attached. The dangers posed by sharp edges, clamps, presses, hot surfaces and moving parts are clear, and operators must be protected from them.

Aside from training, operational precautions are essential for the safe use of machinery. The first approach should always be to remove hazards by installing physical guarding or protection. Clear warning signs should also be fitted.

The addition of machinery safety systems that use switches, sensors, and opto-electronic protective devices to monitor how the operator is interacting with a machine is a secondary way to mitigate risks when physical guarding is impractical.

The many types of industrial machinery in use perform different functions and appear to have little in common. But while the fine details may differ, the fundamentals of operating safety are much the same.

The following principles apply to lathe machines, grinding machines, presses, machine tools and packaging machines.

Top Tips for Machine Safety

- 1. Read the operating manual of any new machine carefully**, even if you are already familiar with the basics. Always follow the instructions given.
- 2. Always wear machine-appropriate personal protection equipment (PPE).** Closed toe shoes protect your feet from impact and falling items and also reduce the risk of slips. Full wrap goggles shield your eyes from debris that may escape the guarding. Cut resistant gloves can ward off injuries caused by exposure to sharp edges and blades. Read our guide to PPE here.
- 3. Only operate machinery for which you have received full training.**
- 4. Visually assess the machinery and its fixtures and fittings before use**, looking for any potential problems.
- 5. Tie back loose clothing and hair and remove any jewellery** to avoid the risk of entanglement.
- 6. Ensure that there are no slipping or tripping hazards** in the vicinity.
- 7. Ensure you know the location of the emergency stop (e-stop) button** if one is present and make sure you can access it immediately if needed.
- 8. Establish clear lockout procedures and install barriers** as appropriate, enabling the complete cessation of electrical current in emergencies or for maintenance. Presence-detecting light curtains will induce an emergency shutdown if they detect limbs in hazardous areas.
- 9. Make sure appropriate guarding (shielding) is securely installed** to protect operators and critical parts of the machinery itself from flying debris, sparks, moving parts or entanglement hazards. Cabling should also be appropriately guarded. Only use guarding that is free from its own hazards – e.g. sharp edges. Always switch off machinery when stepping away from it.
- 10. Fit easy-to-understand safety warning signs** in visible locations, for the benefit of anybody in the vicinity of the machine.
- 11. Ensure that a well thought-through cleaning and maintenance system is in place** so that workers involved in such tasks are not exposed to unnecessary risks.
- 12. Only fully trained technicians should conduct repairs and modifications.**

Shop our Machine Safety Range

“RS stocks the widest range of machine safety products in the market – From safety relays and light curtains to emergency stops, you can find all the recognised and trusted brands in our range.”

Suroor Anwar, Vice President- APAC, Strategy and Commercial





XCSE Solenoid Interlock Switches

- Key operated lock to allow authorised override of solenoid (key supplied)
- 2 LED indicators (orange/guard open, green/guard closed, key in locked position)
- Heavy duty metal compact style to IP67



263-3725 2NO/1NC, Power to Unlock

XCSE5312

Telemecanique Sensors XCSA Safety Interlock Switches

- 3 positive opening contacts as standard (on guard opening)
- A key operated lock enables positive locking of the guard
- Optional version with orange LED to indicate guard open/closed



397-2166 3NC, Key, Zamak

XCSA801

397-2150 2NC/1NO, Key, Zamak

XCSA701

AZ Series Standard Safety Interlock Switches

- Individual coding available on request
- High level of contact reliability with low voltages and currents
- Not sensitive to dirty conditions by virtue of patented roller system



623-2988 1NC/1NO, Key, Fibreglass

AZ16ZVRK-M20

623-3054 2NC/1NO, Key, Fibreglass

AZ16-12ZVRK-M20

GKN Safety Interlock Switch

- Large wiring cavity and 3 cable entries
- No additional earthing requirements
- Head offers 4 actuation entries



015-3141 2NC/1NO, Key, Fibreglass

GKNC21

D4NS Safety-Rated Interlock Switch

- Connector size is M20 (1-conduit)
- Standardised gold-clad contacts for high contact reliability
- Applicable to both standard loads and micro loads



746-7292 1NC/1NO, Key, Plastic

D4NS-4AF

3SE5 Safety Interlock Switch

- 5 directions of approach, from above and 4 x 90°
- IP67 degree of protection
- Compact dimensions with up to three contacts
- Simple, fast wiring offers approx 20 to 25% reduction in connection time



498-927 2NC/1NO, Key, Plastic

3SE5232-0OV40



Robust, cost-effective sensors to increase conveyor productivity

Increase product flow and ensure optimum time in automated storage & retrieval systems

In the world of automation, rapid and efficient production translates into profit while downtime equals lost opportunities. Critical and cost-effective conveyor sensors from Telemecanique Sensors can instantly improve production and reduce downtime.

Innovative roller conveyor sensors reduce downtime

The simple "position-and-click" installation of the XUY roller conveyor sensor is just the first feature that reduces conveyor downtime. By mounting the sensor between the rollers instead of on the side of the conveyor, you virtually eliminate the risk of sensor damage by items improperly positioned on the conveyor or next to the conveyor.

Conveyor sensors increase efficiency and improve safety

Conveyor solutions are as vast and varying as the number of products produced on them! When conveyor detection involves clear surfaces, shiny metal surfaces, or safety considerations, Telemecanique Sensors provides detection solutions that are equally as innovative and reliable.

With Telemecanique Sensors, it's "Simply easy...and safer!"



PSR Safety Relays

- Slim overall width means you can save space
- Fast installation and startup
- Force guided contacts make them a reliable choice



666-7022 Single Channel With 3 Safety Contacts	2981020
666-7053 Dual Channel With 6 Safety Contacts	2981428
666-7056 Dual Channel With 2 Safety Contacts 2 Auxiliary Contacts	2981800
666-7069 Dual Channel With 2 Safety Contacts 1 Auxiliary Contact	2981499

Omron 24 V ac/dc Safety Relay

- Easy expansion connection
- Compact
- Used for most safety relay applications within the industrial automation industry



054-9609 Single or Dual Channel With 3 Safety Contacts 1 Auxiliary	G9SA-301 24AC/DC
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PNOZsigma Configurable Safety Relays

- Rapid installation: With push-in spring-loaded terminals
- Wiring work is reduced by 20 %: Contact expansion via connectors
- Simple configuration: Designation and position of the terminals is the same on all unit types: So connections and devices can always be assigned quickly for configuration, installation and diagnostics



015-5822 Dual Channel With 2 Safety Contacts , Automatic, Manual, Monitored Reset	750105
015-6106 Dual Channel With 3 Safety Contacts 1 Auxiliary Contact, Automatic, Manual	750104
015-6112 Dual Channel With 3 Safety Contacts 1 Auxiliary Contact	750134

PSRmini 24 V dc Safety Relay

- Compatible with all important signal transmitters and safety-relevant systems
- Screw and push-in spring connection
- Up to 70% space saved



893-7745 Dual Channel With 2 Safety Contacts 2 Auxiliary Contacts , Automatic	2904958
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BT50 Output Module

- Quick and easy method of expanding safe outputs
- 35mm DIN rail mounting type
- Connection via screw terminals



733-4846 0 Inputs, 4 Outputs, 24 V dc	2TLA010033R0000
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Schneider Electric 24 V ac/dc Safety Relay

- Single channel safety relay output provided with 3 N/O safety relay outputs plus 1 solid-state output PLC signalling
- Monitoring of single safety functions, providing an automated solution for use with applications such as emergency push stop buttons or switches
- Slim in design, meaning it can fit nicely even in space constraint spaces



447-4477 3 Safety Contacts 1 Auxiliary Contact	XPSAC5121
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Innovative solutions for machine safety

Covering all the safety functionality and scalability you need for your machines.

Schneider Electric provides an extensive and comprehensive range of machine protection equipment and safety certified products offers. In conjunction with our best-in-class industrial offers, we continue to innovate at every level to support you further with all your industrial application needs.



XPS safety relays and controllers

Preventa™ XPS safety relays and XPSMCM modular safety controllers provide flexible safety solutions for a wide range of machine safety applications.

- XPS: dedicated safety relay modules for specific functions e.g. limit switch monitoring, zero speed detection, timing, two-hand control, press control, and others.
- XPSMCM: modular and configurable safety controllers with a complete range of I/O and communication expansion modules.

Harmony safety emergency stops

- Upgraded waterproof and dust proof, ideal for severe environments, especially applications requiring high impact and vibration resistance.
- Combines simplicity of setup, flexibility, and robust construction.
- Range now includes E-stop with monitoring contacts, to avoid errors in installation.





Harmony XALK Series Emergency Stop Push Buttons

- 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 Twist to Reset, NC	XALK1/8
609-4708 Twist to Reset, NO/NC	XALK178E
795-1309 Pull to Reset, NC	XALK198
795-1302 Key Reset, NC	XALK188

SSA EB1 Series E-Stop push button

- Rugged design which helps create easy installation with no assembly or individual wiring required
- Easy to install
- Operating Temperature Range -25 to + 70°C



840-3056 Twist to Reset, NO/2NC	SSA-EB1PLYR-12ECQ8
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Stainless Steel Enclosed E-Stops

- 2NC/INO contact configuration
- Conduit entry of M20
- High pressure hoses with detergents at high-temperature



826-4390 Twist to Reset, 2NC/NO, 240 V	231001
826-4394 Twist to Reset, 2NC/NO, 240 V	231002
826-4404 Twist to Reset, 2NC/NO, 240 V	231005

ABB Panel Mount Emergency Button

- Modular Emergency Stop
- Mushroom 40mm
- Red - Non-illuminated



757-8897 Twist to Reset	1SFA611E23R1001
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XB5A Series Red Emergency pushbuttons

- Strong resistance to chemicals (cleaning agents, alcohol, oils & detergents) offering you the flexibility of area of use for your E-stops
- Greater vibration resistance alongside shake-proof terminal screws to prevent the E-stop loosening from its mounting / panel
- Simple, easy and quick panel mounting installation, saving you time and effort



123-8167 Turn to Release, 2NC	XB5AS8444
795-1289 Pull to Reset, NC	XB5AT842

APEM Surface Mount Emergency Button

- Twist-to-reset action
- Non-illuminated
- Double-pole, positive break switch



417-5401 Twist to Reset, NC	A01ES-DSP3+54B-D+FM2+YL5+PEA01
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Harmony XB4 Complete Pilot Lights

- Direct supply type will require separate purchase of appropriate BA9s incandescent lamp, neon or LED
- Transformer types are supplied complete with BA9s incandescent
- LED types are complete with integral LED light block



330-8925 Red	XB4BVB4
330-8919 Green	XB4BVB3
609-5701 Yellow	XB4BVB5

RS PRO Panel Mount LED Pilot Lights

- Brighter than standard incandescent bulbs
- Very low power consumption
- Temperature range -25 → 55 °C



763-7918 Green	7637918
763-7909 Red	7637909

Panel Mount Black Buzzer

- Compact design for short installation time
- LED illumination integrated with continuous/flashing light/siren
- Cable Terminal



835-2794 Round, 230V ac	1SFA619600R6336
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SIRIUS ACT Push Button Head

- Self-holding function of the actuator when mounting
- Twist prevention integrated into patented holder design
- Stackable contact modules



874-1712 Red	3SU1000-0AB20-0AA0
874-1689 Green	3SU1000-0AB40-0AA0

Eaton Mushroom Head Push Button

- This versatile pushbutton features a diameter of 94mm
- IEC418 tamperproof
- Durable, impact-resistant housing



225-8166 NO/NC Momentary Screw	229746 & FAK-R/KC11/1
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XAC-A Pendant Control Stations

- Pre-assembled pendants for common crane applications
- Shrouded, base-mounted, key-release 'Stop' pushbutton
- Switching current 10A



034-0695 6 Button	XACA06SPEC0280
746-8989 3 Button	
609-4455 2 Button	XACA281





Preventa XY2 Series Grab wire switches with E-Stop

- Switches incorporate positive opening operation contacts, the tripping of the switch being made with positive action
- The switch latches in the tripped position (N/C safety contact(s) open). The function of the N/O contact is purely for signalling
- Incorporates a reset button, which re-closes the safety contact(s), restarting of the machine must only be achieved by manual operation of a control device within the machine start circuit, remote to the trip wire switch



130-0872	30m, 2NC, NO	XY2CH13290H29
130-0874	2 x 100m, 2NC, 2NO	XY2CEDA190
130-0885	70m, NC, NO	XY2CE1A450
130-0887	70m, 2NC	XY2CE1A270EX

IDEM Guardian Line GLS-SS Stainless Steel Safety Rope Pull Switches

- Switch mechanism will latch the instant the safety contacts open
- Positive break contacts
- Rugged integral sealing bellows mean they can be high pressure hosed



826-4117	100m, 2NO/2NC	144015
826-4110	100m, 2NO/2NC, Straight	144021A
826-4108	100m, 2NO/2NC, Straight	144009A
826-4126	100m, 2NO/2NC, Straight	144030

ER Cable Switch With E-Stop

- Long rope spans up to 80m means fewer number of switches required per application
- Tension indicator makes the system easy to set up and to maintain the proper rope tension
- IP67 (NEMA 6) enclosure enables the switch to withstand water wash down cleaning



757-9106	40m, NO/2NC, Straight	ER5018-021ME
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Schmersal ZQ700 Cable Switch

- Size of cable entry is M20 x 1.5
- Release pushbutton
- Position indicator



741-8672	10m, 2NC, Straight	ZQ 700-02
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Telemecanique Sensors XY2-CH Cable Switch

- Size of cable entry is PG13.5
- For machine tools, conveyers and handling applications
- Recommended distance between cable supports is 5m



609-1939	15m, 2NC, Straight	XY2CH13270
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Banner RP-LM40D Cable Switch

- Positive-opening safety contacts which are not dependent upon springs
- Heavy-duty die cast metal housing
- Suitable for demanding industrial environments



839-4577	6m, 2NC, NO/NC, Straight	RP-LM40D-6
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General Purpose Momentary Foot Switch

- Single pedal foot operated switches
- Durable and reliable with steel housing for long life
- Incorporates non-slip base pad and footpad



031-6901	SP-CO, 3 A Contact Current, 250V Contact	316901
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IPS Series Emergency Stop Foot Switch with Cover

- Snap action switch with cover
- Visible operation
- Electrically separated contacts



825-1720	Momentary Contacts, NO/NC	IPS1A11
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Light Duty Momentary Foot Switch

- Rust and corrosion proof reinforced polymeric construction for arduous use
- Non-skid base pad
- Adjustable strain relief clamp for various cable sizes



011-6906	SP-CO, 15 A @ 250 V ac Contact Current, 250V Contact	116906
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Harmony XPEA Plastic Footswitches

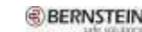
- Available with or without trigger mechanism in 1 or 2 step configurations
- Large surface area of pedal assures stability of foot and operator comfort
- High and wide protective cover accommodates both large size and safety boots



537-5270	Without cover, 2 NC + 2 NO	XPEB111
537-5315	With cover, 2 NC + 2 NO	XPEB311
537-5337	With cover, 2 NC + 2 NO	XPEB511

606 Series Emergency Stop Foot Switch with Cover

- DPST pole and throw configuration
- Safety stay put with manual locking release
- Metal encapsulated housing



410-7060	1 Pedal, Momentary Contacts, NO/NC	F1-U1Z UN
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SIRIUS 3SE2 Series Emergency Stop Foot Switch

- Fixing holes for securing to the floor
- Latching or momentary-contact
- Cable entry type is M20 x 1.5



764-4073	1 Pedal, Maintained Contacts, 2NO/2NC	3SE2924-3AA20
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Preventa XUSL Safety Light Curtains

- Highly reliable and excellent quality.
- Automatic or Manual start
- IP65/67 rated



127-8298	46 Beams, 30mm Resolution	XUSL2E30H091N
127-8305	16 Beams, 30mm Resolution	XUSL2E30H031N
127-8312	8 Beams, 30mm Resolution	XUSL2E30H016N

L4000 Light Beam Sender

- Colour LEDs provide in-situ information on operational status
- Numerous areas of operational use, IP67 rated for outdoor applications and sub-zero operating capability
- Nickel plated brass housing



701-2918	1 Beam, 10m Max Range	L41S-21MA1A
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Preventa XU2S Light Beam Sender & Receiver

- Flexibility allows connection of up to 4 light beam devices which can protect a zone up to 1200mm high
- Automatic self-checking every 5ms
- Built-in muting function allows the light device to be inhibited by an external sensor



385-7578	1 Beam, 8m Max Range	XU2S18PP340L5
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Did you know?

Safety light curtains are also known as safety light barriers or safety light screens. These optoelectronic devices are used to detect people present in the vicinity of moving machinery. Light curtains can be used as an alternative to mechanical barriers and other forms of traditional machine guarding. A set of light curtains contains a transmitter head and a receiver head. A transmitter generates an infra-red light between the two heads which acts as a detection zone. A movement detected within the detection zone initials the machine stopping procedure and automatically disconnect all hazardous machinery.

To reactivate the machinery, an operator has to press reset button that is positioned outside of the danger area. Some models are equipped with an auto-reset option that automatically starts machinery once the detection zone is free of obstacles. A response time of all light curtains is just a fraction of a second, it means that no other barrier type can compare to that.

Light curtains are great safety devices that are used to keep people safe around hazardous machinery which could cause them harm. They can help ensure user safety during routine operations like maintenance and repair.



Harmony XB5 Buzzer Beacons

- Bezel material plastic
- Mounting diameter 22mm
- Continuous or intermittent tone



167-9011	90dB, Red, 24 V ac/dc, IP66, IP67, IP69	XB5KS2B4
167-9014	90dB, Yellow, 24 V ac/dc, IP66, IP67, IP69	XB5KS2B8
167-9015	90dB, Yellow, 110 V ac/dc, IP66, IP67, IP69	XB5KS2G8

Klaxon Flashguard QBS Xenon Beacon

- The supply voltage is 12VDC/24VDC
- Ultra-low profile xenon
- Ease of installation with first-fix option on standard models



309-5972	Amber	OBS-0043
309-5764	Red	OBS-0052

RS PRO Compact LED Beacon

- Providing excellent all-round visibility in all weather conditions
- x 4W LED provide a working life of more than 50,000 hours ensuring maximum reliability with minimum maintenance
- Fixing holes are directly accessible without needing to dismantle the unit



907-5993	Amber	9075993
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Werma BM 826 Incandescent Beacons

- The supply voltage is between 12VAC/12VDC and 240VAC/240VDC
- Bayonet lock fixing
- Optimised cap ribbing



365-9734	Green	82620000
365-9728	Red	82610000
365-9740	Amber	82630000

Askari Compact White 32 Tone Electronic Sounder

- 32 tones, the tones are compatible with Roshni, Squashni and Flashni sounders
- Has a second tone for a two-stage alarm
- Easily accommodated and simple to install



530-5990	9 → 28 V dc, 97dB at 1 Metre, IP65	AC/W/SWITCH
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e2s SON4 Sounder Beacon

- Automatic synchronisation on multi-sounder system
- 3-stage alarm
- 3 level of volume control



192-9485	104dB, Red Xenon, 230 V ac, IP66	SON4AC230R/R
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FLUKE®

Fluke 393 FC CAT III 1500 V True-rms Clamp Meter

Delivers Safe, Fast Measurements in 1500 V DC Environments

The Fluke 393 FC CAT III 1500 V / CAT IV 600V True-rms Clamp Meter with iFlex is designed for technicians who work in dc environments up to 1500 V: solar arrays, wind power, electric railways, data centers battery banks for uninterruptible power supplies.

The clamp will measure up to 1500 V dc, 1000 V ac, and up to 999.9 A dc or ac through the clamp jaw. The included iFlex flexible current probe extended ac current measurements up to 2500 amps.

This clamp has a thin jaw, giving you access to cables in crowded combiner boxes. Test leads are designed with your work in mind, and are also rated to CAT III 1500 V dc.

Fluke 393FC meets standard for photovoltaic panels (IEC 61730-1) and extends safe measurement range up to 1500 V DC.

Key Features & Benefits:

- Safe and accurate voltage measurement up to 1500V DC
- IP54 rating for dust and water making it ideal for work outdoors on solar arrays and wind power systems.
- DC power measurement, showing readings in kVA.
- Audio and Visual Polarity to ensure photovoltaic panels are properly installed with the help of an audio beep and a light to indicate correct polarity.
- Visual Continuity that provides a bright green indicator light in the display for working in dark and noisy environments.
- Logging, sharing and reporting of test results via Fluke Connect software.

1 ENHANCED SAFETY WITH CAT III 1500V RATING

Unparalleled safety with World's first CAT III 1500 V/CAT IV 600 V clamp meter. Comes with 1500 V CAT III insulated test leads.

2 RECORD, ANALYZE, SHARE RESULTS WITH FLUKE CONNECT® SOFTWARE

Log up to 65,000 data points on the device and download with Fluke Connect.

3 INCREASE PRODUCTIVITY WITH FLUKE 393FC.

Make DC power measurement quickly and accurately with a tool that does it all: V, A and Power (kVA). Ensure PV panels are properly installed with the help of an audio beep to indicate incorrect polarity. Visual continuity makes continuity testing easier in low-light situations.

4 RUGGEDNESS & RELIABILITY ARE INGRAINED IN FLUKE 393FC

Fluke 393FC clamp is sturdy with ingress protection (IP54) to support usage in outdoor environmental conditions. It also comes with a 25% thinner jaw than Fluke 37X Clamp meters, makes it easier and faster to take measurements in tight and overcrowded spaces. This new, improved design is durable, rugged and reliable and meets the stringent CAT III creepage and clearance requirements.



Shop the Fluke range at RS Online

sg.rs-online.com/fluke





Seaward PrimeTest 250+ UK PAT Tester

- Display LCD
- Indication PASS/FAIL and Measured Values
- Operation 6 Push Button



803-9781 10 A, 250 V

PAC3760 DL

Megger PAT420 PAT Tester

- Large 5.7in. VGA backlit colour screen for clear & easily understandable results
- 5 user defined soft-keys for direct access to frequently used functions
- Full QWERTY keypad for easy and precise data entry.



705-6280 Class I, Class II Test Type

1000-752

Seaward PrimeTest 250 UK PAT Tester

- Lightweight, battery powered manual PAT tester
- Performs all the tests required by the IEE Code of Practice for the In-Service Inspection and Testing of Electrical Equipment
- Automatic test sequences with clear PASS /FAIL indication



706-6921 Class I, Class II Test Type

392A910

Fluke 6500 PAT Testing Kit

- With powerful auto test capabilities and simplified controls, including 'one touch' test routines, the Fluke 6500-2 PAT Tester increases the number of tests you can perform per day without compromising results
- The Fluke 6500-2 is suitable for testing both 230 V and 110 V appliances, the 6500-2 model runs all the required safety tests: Earth bond low (low/high current, Insulation 500 V, 250 V, Leakage (PE current, touch current, substitute current), Can test 110 V appliances (earth bond, insulation) via the 110 V adapter kit



797-6011 Class I, Class II Test Type

FLUKE-6500-2 UK

Megger MIT400/2 Insulation and Continuity Testers

- The Megger MIT400/2 insulation and continuity tester has a redesigned case, back-stand and 6-cell battery compartment with separate fuse access
- Insulation testing is enhanced with feedback controlled test voltages to limit over-voltage up to 2%, rather than the industry standards i. e. 10-20%
- All the primary results are displayed in the larger digital display and repeated on the analogue arc



921-4517 1000V, 200GΩ, CAT IV

1004-731

Keysight Technologies U1461A Insulation Tester

- Adjustable test output voltage from 10V to 1.1kV
- Automatic test report generation
- 4.5 digit full featured DMM with OLED display



820-2976 1000V, 260GΩ, CAT III 1000V

U1461A

Fluke 1507, Insulation Tester

- Auto discharge of capacitive voltage for added user protection
- Automatic discharge of circuit capacitance (any charge stored in the circuit under test will be automatically discharged after testing)
- Insulation test ranges between 0.01MΩ and 10GΩ



518-6008 1000V, 10GΩ, CAT III 600V

FLUKE 1507

FLIR IM75 Insulation Tester

- Advanced Insulation Modes: Insulation Resistance up to 20 GΩ, PI, DAR, Earth Bond Resistance
- Multiple ranges of resistance insulation test levels available via rotary switch: 50V, 100V, 250V, 500V, 1000V
- Multi-color LED indicator with Compare Mode makes pass/fail determinations easy and visible



877-7118 1000V, 20GΩ, CAT III 1000V

IM75

Fluke 1587 FC Insulation Multimeter

- Single compact, handheld unit combines 1 kV insulation tester with a full featured, true-RMS digital multimeter
- PI/DAR timed ratio tests with TrendIt™ graphs to identify moisture and contaminated insulation problems faster
- Selectable filter for accurate measurement of voltage and frequency on motor drives



905-5920 1000V, 2GΩ, CAT III 1000V

FLUKE-1587 FC

RS PRO RS5500 Insulation Tester

- Large dual display with backlight
- Triple insulation voltage Test Ranges: 200 MΩ/250 V; 200 MΩ/500 V; 2000 MΩ/1000 V
- AC Voltage (40Hz to 400Hz)



123-1931 1000V, 2GΩ, CAT III 1000V

1231931



A PAT Tester for every application

The clear display, huge on-board memory, and proven long duty cycle means the PAT400 series testers from Megger will still be working at full speed long after the operator has had to stop for a rest.





IVP-1 Non Contact Voltage Detector

- Tip glows red and the audible sounder activates when a voltage is detected
- Locates breaks in cables
- Detects blown fuses inside plugs or fuse holders



Testo 745 Non Contact Voltage Detector

- Filter for high-frequency interference signals
- Adjustable sensitivity
- Waterproof
- Dustproof
- Measurement point illumination



905-5863 12V ac to 1000V ac

0590 7450



123-3247 100V ac to 1000V ac

LED Voltage tester

- Dual Sensitivity
- LED light with 100,000 hour life
- Detects from 90VAC to 600VAC



Gedore Non Contact Voltage & Magnetic Field Indicator

- Multi-functional, the VDE is a screwdriver, voltage finder and integrated magnetic field tester rolled all in to one. Users now have one tool to hand for checking and repairing magnetic pumps or valves
- Power-Grip and ergonomic handle
- Eliminates need to take switches and valves offline



847-7739 Magnetic Field, Voltage

2824434



033-6328 CAT IV 600V

LVD2

Martindale TEK 200 Magnetic Field Detector

- Senses AC voltages from 100 - 600V
- Detects electrical field
- Eliminates need for separate proving unit
- Self-testing
- Displays polarity of magnetic fields



Fluke PRV240 Proving Unit

- Single LED indicates functionality, making this unit a simple-to-use solution for verification of your test tool
- Compatible with both, high impedance and low impedance multimeters, clamp meters or 2-pole testers
- Voltage is sourced through recessed contacts that are activated when tested probes are inserted to avoid accidental contact



881-2775 -10°C and 50°C

PRV240



719-0876 ±10mT, 100V ac to 600V ac

RSTK200

Fluke 320 series True-RMS clamp meter

- 400ohm resistance measurement
- True RMS AC voltage and current for accurate measurements on non-linear signals
- Operating temperature ranges between -10°C and 50°



765-3660 400A ac, 400A dc CAT III 600V, CAT IV 300V

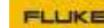
FLUKE 325

765-3658 400A ac, 600V ac CAT III 600V, CAT IV 300V

FLUKE 323

Fluke 375 AC/DC Clamp Meter

- 600 A ac and dc current measurement with fixed jaws
- Capacitance, resistance and continuity measurement
- Frequency measurement



914-5433 600A dc, Max Current 600A ac CAT III 1000 V, CAT IV 600 V

3790586

Megger DCM305E Leakage Clamp Meter

- 0.001 mA resolution
- Up to 100 A AC
- TRMS reading



179-4710 100A ac CAT III 300 V

2009-574

Fluke 376 FC Bluetooth AC-DC Flexible Clamp Meter

- 60kohm resistance measurement with continuity detection
- Frequency measurement up to 500Hz with both, jaw and iFlex
- Minimum, maximum, average and inrush recording to capture variations automatically



905-5914 1kA dc, Max Current 1kA ac CAT III 1000 V, CAT IV 600 V

FLUKE-376 FC

Fluke 773 Milliamp Process Clamp Meter

- Measures 4mA to 20mA signals with in-circuit measurement
- Simultaneously measures mA in-circuit with 24V loop power for powering and testing transmitters
- Source output signals in a linear ramp or 25% step output- Automatically change the 4mA to 20 mA output for remote testing



669-3493 100mA dc

Fluke 773

ICMA1 AC/DC Clamp Meter

- 6000 Count large-scale LCD display with backlit
- AC-DC current measuring capability up to 300 A
- Automatically detect DCA/ACA with AC True RMS reading mode



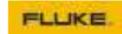
123-3256 300A dc, Max Current 300A ac CAT III 600 V





Fluke T5 Multifunction Tester

- Automatically measures volts ac and volts dc with precise digital resolution
- Displays resistance to 1000 Ω
- Easy and accurate Open Jaw current measurement



292-1230 1000V ac, CAT III, CAT IV

Fluke T5-1000

MI-3125 Electrical Tester

- Automated RCD testing procedure significantly reduces the test time
- Automatic polarity reversal on continuity test
- Built-in loop impedance tables allow automatic evaluation of the line / loop impedance results compared to the regulations



712-6023 1999Ω

MI-3125

RS PRO MT-6600 Multifunction Tester

- Test a variety of installation parameters
- 3.5 in TFT colour LCD display with 320 x 240 pixels
- Fast high current loop test



144-5338 1000V

Megger LRCD220 Loop Impedance & RCD Combined Tester

- Non-trip loop tester
- RCD testing from 10 mA to 1000 mA
- Auto RCD testing (LRCD220)



712-5749 Test Type 2 Wire 500V, RCD Test Type AC

LRCD220-EN-BS

Fluke T5-1000 + 1AC-II Multifunction Tester

- This kit is designed to help electricians and HVAC technicians solve problems quicker
- Test first for overheated electrical devices using an IR thermometer; then use electrical test tools to find out more about the problem



494-7650 1T5-600/62MAX +/1AC KIT

FLUKE T5-H5-1AC KIT

FLUKE 117 Handheld Digital Multimeter

- VoltAlert Technology for integrated non-contact voltage detection
- AutoVolt feature for automatic AC/DC voltage selection
- LoZ: Low input impedance to eliminate stray voltage



616-1460 10A ac 600V ac 10A dc 600V dc

FLUKE 117 EUR

RS PRO RS14 Digital Multimeter

- Compact and handheld
- Digital 2000 count LCD display
- Functions measured: AC and DC Current, AC and DC Voltage, Resistance, Temperature Measurement



123-1938 RS14 Autoranging

DM285 Handheld Digital Multimeter

- A built-in 160 x 120 resolution thermal camera sensor visually guides you to an electrical problem
- Performs 18 measurement functions including True RMS, VFD mode, LoZ, NCV, and more
- Thermocouple input & test leads



168-1355 10A ac 1000V ac 10A dc 1000V dc

DM285

Keysight Technologies U1242B Handheld Digital Multimeter

- 10,000 - count dual display
- Overmold body casing
- Up to 0.09% basic DCV accuracy



699-7351 10A ac 1000V ac 10A dc 1000V dc

U1242B

Fluke 179 Handheld Digital Multimeter

- 6000 count LCD with 33 segment bargraph
- True rms (a.c.) measurement
- EN61010-1 safety standard compliance to Cat IV 600V & Cat III 1000V



394-4492 100kHz

FLUKE 179

Fluke 175 Handheld Digital Multimeter

- Fluke 175 Series digital multimeters, offers precision, reliability and ease of use. The ideal choice for troubleshooting and repairing all your electrical and electronic systems
- Digital display counts, updates 4 times per second
- Buzzer for easy continuity checking



394-4470

FLUKE 175





RS PRO 88 Piece VDE Approved Electricians Tool Kit

- This versatile tool kit has VDE certified screwdrivers and pliers, individually tested for use up to 1000 V ac
- The kit also contains additional extras including sockets, spanners, bit sets, extension bars, hex keys, insulated screwdrivers and VDE pliers in various sizes ensuring that you are covered for a range of applications



734-8885 88 Piece

CK VDE Plier & Screwdriver Tool Kit with Pouch

- A 10 piece VDE set of Pliers & Screwdrivers from CK that is supplied in a durable zipped storage wallet
- The kit contains Redline VDE pliers and Dextro VDE screwdrivers that guarantee a safe working limit of 1000 V
- An ideal starter tool kit or great to upgrade your tool box with premium quality CK pliers & screwdrivers



910-7239 10 Piece

Knipex VDE Insulated Chrome Vanadium Steel Combination Pliers

- Cutting edge 60HRC
- Chrome vanadium steel jaw
- Insulated with two-colour dual component handles



158-5300 180 mm Overall Length

03 06 180

RS PRO 1/2 in Insulated Ratchet Handle

- Featuring injection moulded Nylon 11 insulation that bonds with the tool to offer maximum protection and longer life
- The unique Nylon 11 insulation makes the tools a great choice when working in intense climates and the most difficult conditions



911-1471 300 mm Overall Length

KnipexVDE Cable Knife

- Insulated and tested in accordance with VDE, 1000 V
- No damage to wire insulation
- Sickle-shaped stainless steel blade with tip-mounted guide shoe



460-9538 180 mm Overall Length

98 55 SB

RS PRO OBA Hexagon Nut Drive

- 150 mm stud clearance
- Each tool is injection moulded
- Nylon 11 insulation



911-1503 104 mm Blade Length



Sibille TTCL0 Electrical Safety Mat

- Maximum operating voltage 1000 V ac
- Insulating mat class 0
- Made from elastomer



918-2489 1m x 1m x 1.5mm

RS PRO Anti-Slip Electrical Safety Mat

- Ribbed Surface offers traction under foot
- Resistant to acid, oil and low temperature
- Ideal for use in front of switchboards and high voltage equipment



790-3007 1m x 1m x 5mm

7903007

Bahco Anti-Slip Electrical Safety Mat

- Valid for use up to 5000V AC
- Protects against earth connection when operating live systems
- Complies with EN10204-3.1



688-0455 1m x 1m x 20mm

Knipex Electrical Safety Mat

- For added protection when working live or close to live parts



665-4640 1m x 1m x 1mm

Facom Electrical Safety Mat

- Professional 3.2mm thick rubber insulating mat provides safety for operatives against electrical shocks
- Ideal for use in front of switchboards and high voltage equipment
- Tested to 20,000V



032-1130 600mm x 1m x 3.2mm

BC.20VSE

SAM Electrical Safety Mat

- Used to isolate the operator from conductive elements such as floors and walls



221-2736 600mm x 1m x 3mm



RS PRO Lockout Kit

- Designed for multipurpose protection, the kit features 24 different products for employee safety, all neatly stored in a tough carrying case
- The carrying bag itself has internal pockets for storage of the smaller products, a handle and shoulder carrier for ideal portability



862-5247 24 products

RS PRO Dustpan and Brush Sets

- Manufactured out of high quality plastic this dust pan and brush set is an excellent choice light cleaning
- Soft bristles sweep up light dirt and debris with ease
- The rubber lip of the dustpan assists with the collection of dirt



- 898-8210 Green
- 898-8214 Yellow
- 056-0789 Red
- 056-0791 Blue

RS PRO Green Emergency exit unlocking box, Break Glass Operated

- Green plastic
- Break glass
- Dimensions: H 85mm x W 85mm x D 51mm



741-8287 Emergency Release Call Point, H 85mm x W 85mm x D 51mm

RS Pro Access Keypad

- Die-cast Aluminium
- Dimensions: 123(H)x77(W)x64(D)mm
- Backlight keypad



774-8162 20+1 PIN codes

Press To Exit Button Stainless Steel

- Brushed stainless steel
- Flush mount
- 19mm brushed stainless steel button (flush)



741-8278 Stainless Steel

RS PRO All Weather Steel Padlock

- Laminated steel body for superior strength
- Hardened steel shackle for superior cut resistance
- Pin tumble structure for great pick resistance test



827-4401 47mm



Your smart choice for Facilities Maintenance

Over 1,000 NEW products added to the range!

Discover to keep your business running, under one brand, at the price and quality you expect. Shop janitorial, cleaning, lighting, site safety solutions - batteries, tool kits, PPE and much more.



Find out more at rspro.com

Creating a **more hygienic workplace** doesn't stop at the washroom

Placing hand sanitiser and signage in breakrooms and common areas is a step in the right direction. But studies show it simply isn't enough to make a real impact. Targeting "hot spots" with hand and surface hygiene, is a key step toward reducing the spread of germs. Objects that are touched by lots of people throughout the day — such as doorknobs, elevator buttons and copiers — should be cleaned and disinfected daily in order to help break the chain of germ transmission.

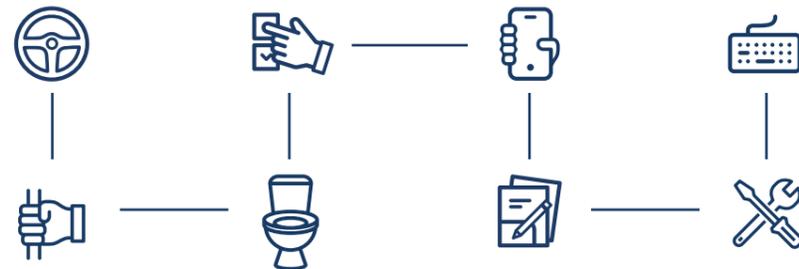


Cleaning vs Sanitising vs Disinfecting – what's the difference?

 <p>Cleaning removes germs, dirt, and impurities from surfaces or objects. Cleaning works by using soap (or detergent) and water to physically remove germs from surfaces. This process does not necessarily kill germs, but by removing them, it lowers their numbers and the risk of spreading infection.</p>	 <p>Sanitising lowers the number of germs on surfaces or objects to a safe level, as judged by public health standards or requirements. This process works by either cleaning or disinfecting surfaces or objects to lower the risk of spreading infection.</p>	 <p>Disinfecting kills germs on surfaces or objects. Disinfecting works by using chemicals to kill germs on surfaces or objects.* This process does not necessarily clean dirty surfaces or remove germs, but by killing germs on a surface after cleaning, it can further lower the risk of spreading infection.</p> <p><small>* Non-Food Contact Surfaces</small></p>
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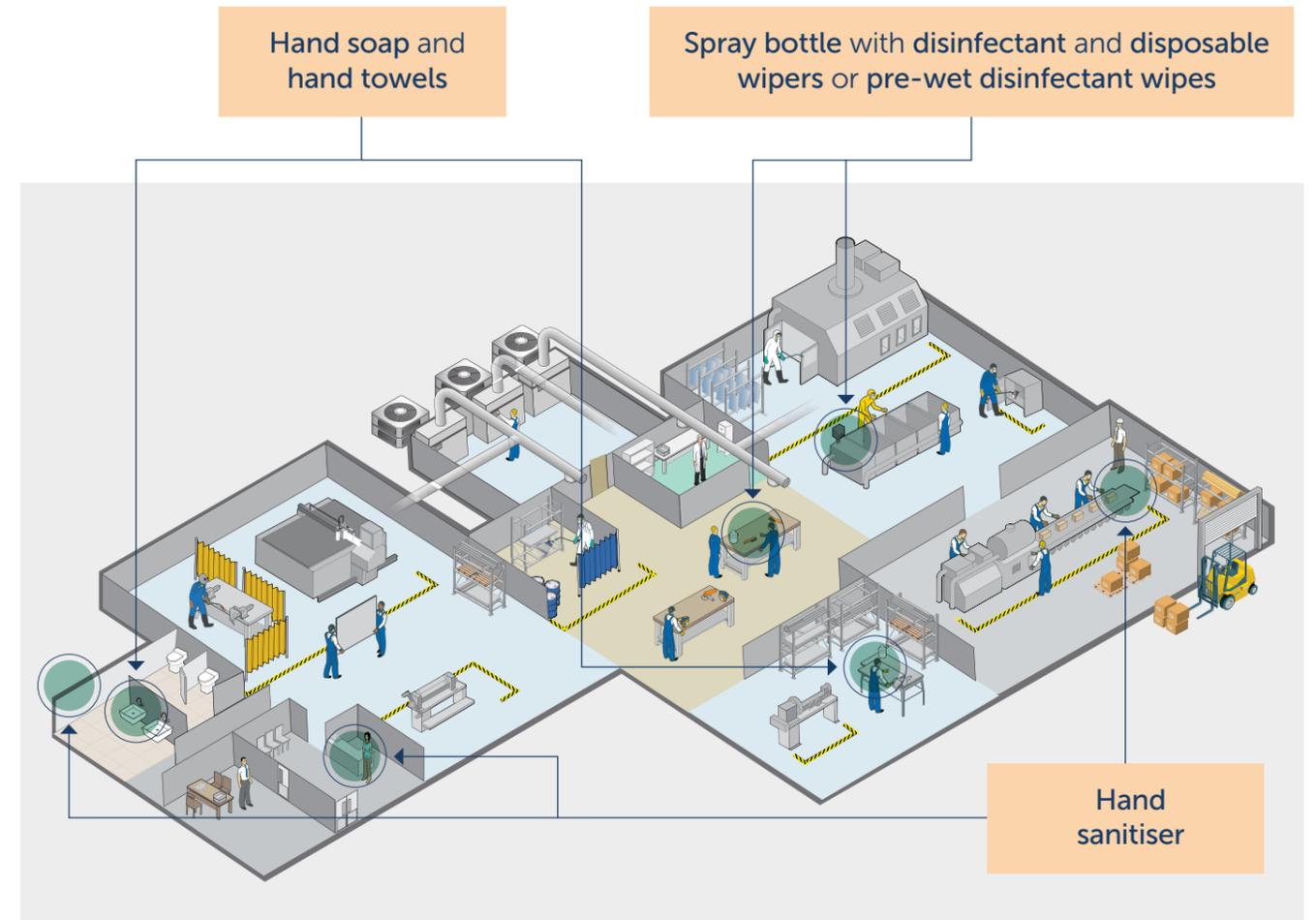
Clean AND disinfect frequently touched surfaces daily.

- Step 1:**
Clean the surface of commonly touched objects — use detergent or soap and water prior to disinfection.
- Step 2:**
Disinfect the surface — use disinfectants approved by local regulatory authority. Follow manufacturer's instructions for application and dwell time.



Clean **these hot spots** to help reduce germs in manufacturing facilities

No matter which surfaces they come in contact with throughout their day, give your employees and visitors greater peace of mind by providing proven cleaning and disinfecting solutions to help break the chain of germ transmission.



 In the span of 24 hours, the average **adult touches 7,200 surfaces¹** and **touches their face 552 times²**.

 Nearly **95%** of surveyed adults did not wash long enough to clean the bacteria and germs from their hands.⁴

 Research has shown that **water fountain spigots can have 19 times the amount of bacteria** as a toilet seat.³

 It is recommended by the CDC that **PPE be worn when using chemical disinfectants** for cleaning.⁵

1. Zhang, N., Li, Y. and Huang, H., 2018. Surface touch and its network growth in a graduate student office. *Indoor air*, 28(6), pp.963-972
 2. A frequent habit that has implications for hand hygiene Kwok, Yen Lee Angela et al. 2015. *American Journal of Infection Control*, Volume 43, Issue 2, 112 – 114
 3. <https://www.nsf.org/consumer-resources/studies-surveys-infographics/germ-studies/germiest-places-schools>
 4. Borchgrevink, C.P., Cha, J. and Kim, S., 2013. Hand washing practices in a college town environment. *Journal of environmental health*, 75(8), p.18; *Hand Washing Practices in a College Town Environment, Journal of Environmental Health*
 5. [CDC.gov/coronavirus/2019-ncov/prevent-getting-sick/disinfecting-your-home](https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/disinfecting-your-home)
 6. Information contained here are recommended best practices, and do not supersede any recommendations or regulations mandated by local laws and regulations.



Kimberly Clark Plastic White Wall Mounting Paper Towel Dispenser

- 1 x Aquarius C Fold Hand Towel Dispenser - White
- Dispenses folded hand towels without the need to touch the dispenser, helping to reduce contamination and the spread of germs
- Hassle-free maintenance keeps costs down in areas of heavy use. Easy to unlock and refill, with a window to gauge refill needs
- Sleek and contemporary design with a white, high-gloss, easy-clean finish and no dirt or dust traps



780-0100 320mm x 420mm x 150mm
6954

Kleenex® Ultra Folded White 315 x 215mm Paper Towel

- 15 packs x 124 white, 2 ply sheets (1,860 total).
- Gentle and generous folded hand towels for elevated care in premium washrooms.
- Unique Airflex™ Technology results in superior absorbency which allows people to feel clean and fresh, ready to perform at their personal best.
- FSC and European Ecolabel certified for environmental assurance.
- Food contact certified



742-3368 Paper Towel 2 ply, 1860 Sheets
6778

Kimberly Clark 1000ml Wall Mounted Soap Dispenser

- One white Aquarius™ wall mounted soap dispenser with 1 Litre capacity
- Hygienic soap dispenser designed to deliver just the right amount of product needed, reducing usage and minimising waste
- The sleek and smooth rounded design of this handwash dispenser has no dirt traps, allowing an easy one-wipe-clean for improved washroom hygiene



780-0093
6948

Kimberly Clark White Plastic Toilet Roll Dispenser

- A refillable, reliable, high-capacity solution perfect for busy washrooms
- Sleek and smooth rounded design with no dirt traps, allowing an easy, one-wipe-clean.
- Robust and lockable.
- Compatible with, recommended: 8614 and 8615. Also compatible with: 8522, 8405, 8512.



780-0103 300mm x 470mm x 130mm
6947

Kimberly Clark Kleenex Hand Cleaner

- 1 x hand Cleanser cassettes, Clear/fragrance-Free, 1 Ltr (1 Ltr total)
- Colourless and fragrance-Free, suitable for all skin types, especially sensitive skins maintaining hygiene without irritation.
- Each cassette delivers up to 1,000 shots of soap making it perfect for everyday use, providing a high-quality feel whilst managing costs and reducing waste.



100-052 1 L refill
6333-RAW

Touch-free electronic skincare dispenser

- Most hygienic soap dispensing option
- Reliable, controlled dispensing
- Indicator lights for low product and low battery
- Suitable for facilities where hygiene is at the utmost importance
- Compatible with Kleenex® 6493, 34614, 91591



White ABS plastic 92147
Metallic ABS plastic 11329



Kimberly-Clark
PROFESSIONAL

Together we create exceptional workplaces by making them healthier, safer, more productive.



Kimberly Clark Dry Cleaning Wipes for Light Duty Cleaning Use

- Ideal for medium duty wiping, such as polishing glass, cleaning surfaces and tools
- Airflex base sheet technology is strong enough to see any job through from start to finish without falling apart and absorbent enough to clean up the most spills with ease.
- Single use wipes
- Certified for food contact



495-1716 Roll of 1000 7200

Kimberly Clark Plastic White Wall Mounting Paper Towel Dispenser

- Dispenses sheets of wiper roll without the need to touch the dispenser, helping to reduce contamination and the spread of germs
- A smart, white, water resistant wiper dispenser that is perfect for maintaining hygiene in laboratory, healthcare and general work areas.
- Wall-mountable, ideal for cleaning stations
- Easy to refill, keep clean and maintain.



766-615 270mm x 380mm x 260mm 7088

Kimberly Clark Dry Cleaning Wipes for Clean Room Use

- For delicate equipment, surfaces, optics and materials, our low-lint and high absorbency white wipes have you covered.
- Light duty, white-coloured wipes made from 100% pure fibre.
- Provided in a hygienic, user-friendly pop-up box.



495-1665 Box of 280 7562

Kimberly Clark Scott CONTROL™ Folded Hand Towels Folded Blue

- Scott® Control™ blue folded hand towels are detectable for hand drying in contamination critical environments
- Unique Airflex™ Technology in these disposable hand towels results in superior absorbency, making hand drying an efficient and effective process and reducing the risk of cross contamination



213-8236 318 x 200mm Paper Towel, 3600 Sheets 6682
210-7410 Cloths for Cleaning Use, Box of 160 8294

Kimberly Clark Dry Hand Wipes for Hand Cleaning Use

- Perfect for use in industrial manufacturing for heavy-duty, rough surface wiping, where strength and bulk are key requirements.
- Hydroknit technology ensures ensure that each cloth is strong, durable and tear-proof.
- High capacity roll
- Food contact certified



792-3219 Roll of 475 8377
183-1533 Roll of 400 7491

Wipers vs. Rags?

No Contest

When compared with waste rags, WypAll® wipers win the efficiency contest hands down... Every wiper is 100% reusable, consistent and available in an efficient format whatever your task.

CHOOSE

Inconsistent in cleanliness, shape and material fibres



Clean, consistent in size, shape and material

STORE

10kg bag of rags footprint takes up valuable storage space



WypAll® Wipers require less space than rags due to a small footprint

DISPENSE

Moving back-and-forth from work to the 10kg bag of rags creates wasted motion



Portable, convenient point-of-use options enhance productivity

USE

Various materials cause lint and aren't efficient with absorbing causing over-processing and defects



WypAll® Wipers are clean, consistent and reliable, helping you to increase productivity

DISCARD

Increased waste due to inconsistent and unusable material with inefficient absorption



WypAll® Wipers help to reduce waste versus rags. Use less, waste less!





Why safety is the number-one priority in manufacturing

Workplace accidents can be devastating to manufacturers, so a sensible safety strategy and collaborative relationship with suppliers is essential

Original Equipment Manufacturers (OEMs) are a significant part of the manufacturing sector, producing unbranded goods to be sold on by other companies. As you'd expect, when employees are in close proximity to automated machinery, moving parts and electrical devices, they must be suitably protected.

According to Jimmy Quinn, President of the Institution of Occupational Safety and Health (IOSH), workplace safety should be at the heart of a company's business strategy. "Safety and health are key to the success and sustainability of businesses. If you look after your people, the returns on this investment are extremely significant," he says.

"Safety and health are key to the success and sustainability of businesses. If you look after your people, the returns on this investment are extremely significant"

Jimmy Quinn, President, Institute of Occupational Safety and Health

There are plenty of reasons to persuade manufacturers to invest in health and safety – legislation, which if broken could lead to punitive fines, potential personal lawsuits from injured employees, not to mention the damage to a company's reputation.

Quinn says the COVID-19 pandemic has focused attention on health and safety for the whole workforce. "Around the world, our members have helped their businesses and the clients they work with implement measures which ensure the risks of virus transmission are managed.

"They are also managing the risks of mental health and wellbeing and, with many people working remotely, ensuring employees aren't at risk of suffering with musculoskeletal issues."

Contributors

Brendan Free
Industry Sector Manager, RS Components

Brendan has worked for RS for over 10 years, starting as a National Account Manager and moving to Industry Sector Manager in September 2015. He is responsible for the portfolio management of some of the UK's largest manufacturing, transportation and defence companies, helping customers understand and develop their MRO strategy.

Jimmy Quinn
President, Institution of Occupational Safety and Health (IOSH)

During a 24-year career in the British Army, Jimmy attained the rank of Warrant Officer and trained as a Health and Safety Advisor/Trainer. After leaving the Army he worked on a number of health and safety projects before joining Babcock International PLC as a HSE Trainer and Advisor before becoming a Health and Safety Manager for a large Middle East transport group. A Chartered Fellow of IOSH and a member of Chartered Institute of Building, Jimmy is also a Fellow of the Chartered Management Institute. He is also Vice-Chair of the IOSH Construction Group.

Read more news and articles on driving MRO efficiency at

**CONNECTED
THINKING**

rs-connectedthinking.com

Employee safety

Brendan Free, Industry Sector Manager at RS Components, agrees. "Workplace safety is extremely important in the OEM sector – the companies in this sector are ultimately responsible for the employees' safety, so they need to take this very seriously," he explains. "This is a sector with a number of risks, so it's well worth the investment in safety equipment and training if it prevents a serious accident.

"The OEM sector has a number of risks, so it's well worth investing in safety equipment if it prevents a serious accident"

Brendan Free, Industry Sector Manager, RS Components

"Typical risks that employees at OEM manufacturers come up against are working with machinery and also electricity – if engineers are repairing equipment and the power is switched back on there could be serious consequences," he adds. "As such, some of the most common safety devices we provide customers with are lock-out switches that stop colleagues from accidentally turning on a machine under repair."

IOSH emphasizes the importance of good operational practices in maintaining a safe and healthy working environment. Safety should be designed in from the outset in all manufacturing processes, they say.

Quinn believes that one of the lessons from the pandemic has been the importance of having trained safety people. "As businesses learn to manage the risks of COVID-19, there has been growing recognition of the importance of the role occupational safety and health professionals play," he says.

Free is a firm believer in working collaboratively with OEMs so that they can find solutions that actually meet their needs. "We try to work closely with companies to identify the specific risks that they face in their business and then offer safety equipment that protects their employees," he says. "We have one customer who we provided with a particular voltage testing device, which they tried and approved, but they wanted to change one of the leads in the box to a higher specification. We were happy to reconfigure that through our trade counter because it meant the customer had the level of equipment they needed."

Poor buying choices

Another area of workplace safety that Free and Quinn agree is a cause for concern is the desire to cut costs when purchasing safety equipment. Since the 2008 recession the IOSH has seen more companies making poor buying choices, particularly around Personal Protective Equipment (PPE) such as hard hats, gloves and boots.

"Quality is the number-one priority when it comes to safety equipment"

Brendan Free, Industry Sector Manager, RS Components

"When a company is purchasing a highly expensive piece of plant equipment, they will make sure it's the real thing, that it meets safety standards," Ho says. "But when it comes to gloves, hard hats, face masks and other smaller items, there is a tendency to go with the cheapest option. The wrong safety equipment could cost a life and end up hugely damaging a business.

"We've seen plenty of situations where inappropriate safety wear has been responsible for terrible accidents."

Free believes that the price of safety equipment should never be the only consideration. "It's simple. Quality is the number one priority," he states. "Cost is not irrelevant, but should only come into the equation once you've established that you are comparing between equipment of equal quality.

"Our sector teams understand the industry as a whole, what's happening in terms of legislation affecting safety and also the individual needs of particular manufacturers – that helps us collaborate with companies to find the safety equipment to fit their actual needs," he adds. "We also work closely with equipment manufacturers to understand new technology so that we can make OEMs aware of better solutions as they come onto the market."



RS PRO Hand Protection Hand Sanitiser, Moisturiser and Barrier Cream

- This ready to use chlorhexidine lotion based alcohol-free moisturiser, sanitiser and barrier cream from RS PRO is an excellent all in one hand lotion ideal for cleaning, moisturising and protecting the hands in the work place.
- This versatile lotion not only keep your hands feeling moisturised and refreshed, but also helps to kill bugs and bacteria to prevent them spreading
- This 3-in-1 lotion helps to moisten the skin and prevent it becoming dry and cracked whilst providing a protective barrier.



219-3684 100ml

RS PRO Automatic Stainless Steel 1150W Hand Dryer

- IP-X1 – protection from water that drips vertically onto the product
- Internal UV protection
- Infra-red touch free activation



136-9558 252mm x 260mm x 180mm

Apollo Optical Smoke Detector

- Ionisation smoke detectors are suitable for use in areas where high levels of smoke may be expected
- The packaging is such that the lid can be used as a dust cover until the commissioning of the system



240-0553 9 → 33V dc

55000-317

Carrying Case, Wall Mounted First Aid Kit for 10 people

- This essential heavy-duty ABS First Aid Kit from our own RS PRO brand is comprehensively stocked and compliant with Health & Safety regulations
- Rubber, dust and moisture seal
- Fully stocked with 1-50 person kit



367-0977 310 mm x 210mm x 120 mm

Floral Flex Hand Cleaner

- Light floral aroma leaves hands smelling clean
- Hygienically sealed to eliminate the risk of cross contamination
- Delivers up to 1,625 hand washes



146-2802 500 ml Cartridge

3486605

Tork Plastic Black Counter Top Paper Towel Dispenser

- Our slim, hygienic Tork Xpress paper towel dispenser for the Countertop is the ideal dispensing solution for smaller spaces
- Ideal for low to medium traffic washrooms
- Cost-effective and efficient to use due to individual towel removal and easy topping-up



202-8522 116mm x 218mm x 323mm

552208

Break Glass Call Point

- Green MCP, double pole, surface mounted with glass
- Break glass operation
- Unique plug and play concept saves installation time



513-6946 Emergency Release Call Point

MCP4A-G000SG

RS PRO 12L Chrome Pedal Stainless Steel Waste Bin

- These pedal bins are great for storing your waste until it becomes full and is ready to be emptied. It features an inner bucket which ensures no waste will leak out and cause spillages and an easy to use foot operated pedal.



898-8315

Tork Folded Toilet Paper

- Ideal for use in low to medium traffic areas especially in healthcare and Horeca environments
- Sheet by Sheet system
- Reduced maintenance costs



136-9584 32x2 Sheets, 2 ply

114271

Tork Fragrant Luxury Hand Cleaner with Alcohol Free

- Rich foaming soap with a delicate fragrance for a delicious hand wash
- It is gentle to the skin and dermatologically tested
- It has a rich lather and leaves your skin feeling touchably soft



202-8558 800 ml

500902

Briton Fire Door Push Bar

- Suitable for single doors up to 2500mm high x 1300mm wide
- Self-handed- will suit both left and right handed doors
- Additional security provided by anti-thrust device to prevent leverage from socket



187-7160 2-Point

376.SE



Plastic Fire Exit Right Non-Illuminated Emergency Exit Sign

- Green/White
- 150 mm X 300mm



370-1526 Fire Exit Right

Plastic Road Traffic Sign

- Shatterproof
- PVC



261-1006 H450 mm W450mm

Red Safe Conditions Label

- 75 mm x 55mm
- Vinyl



434-2033 Pack of 5

Electrical Safety at Work Safety Wall Chart

- Charts withstand grease and dirt
- Wipe clean easily
- Material - 0.7mm Semi-Rigid PVC except where stated



763-2121 600 mm x 420mm

CCTV in Operation Sign

- Environmentally friendly and durable
- 1.2mm Polypropylene



763-1516 300 mm x 400mm

Danger Live Electrical Equipment

- Dual-message sign to warn of live electrical equipment and a mandatory message for safe working or faults



763-1711 150 mm x 300mm



Facom Carabiner Stainless Steel

- 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



910-3350 60mm

MOUSQ6X60SLS

Bahco Polyester Tool Lanyard

- Maximum work-load sew-in warning tag
- Fully extended length of 120cm
- Non-removable carabineer



767-3245 3kg Capacity

3875-LY2

Nylon Tool Lanyard Wrist Strap

- Fabric webbed black toolyards with PVC fastening buckle
- Prevents tools from being dropped when working at height or in hazardous situations
- Adjustable barrel lock for attaching tools



707-7293 Small/Medium

Ergodyne Plastic (Buckle) Tool Lanyard Hard Hat Attachment

- Comfortable high stretch elastic material
- Easily attaches to hard hats and other headwear
- Quick connect clamp attaches securely to fabric

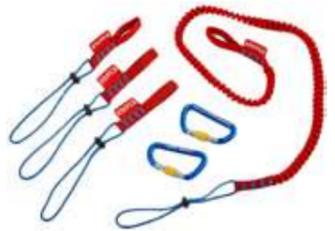


151-2985 0.9kg Capacity

E3155

Knipex Tethering System Set

- Content includes: x1 tether, x3 adapter straps and x2 carabiners
- Reliably prevents the tool from falling
- Prevents loss of the tool and damage



136-7458 Hook-on Lanyard Set

00 50 04 T BK

Tape Measure Trap

- 1200D and 600D polyester main material
- Hook and loop straps secure tape measure inside trap for safe and easy tethering
- Zinc-plated cast alloy D-Ring



151-2957 0.9kg Capacity

E3770





DeWALT PROTECTOR UV Safety Glasses, Clear Polycarbonate Lens

- These glasses are suitable for a number of applications and are essential eyewear protective equipment for keeping safe in certain hazardous environments.
- Available in Clear, Indoor/Outdoor and Sun versions
- Offer eye protection with a lightweight, streamlined design, with rubber-tipped temples, offering a secure & comfortable fit



518-6121 Clear Lenses

DPG54-ID EU

JSP Black Short Peaked Safety Cap

- Stylish baseball cap design
- Unique angled adjuster allowing for one-handed size adjustment
- One size fits all – cap can be adjusted from 53cm to 64cm diameter



736-2308 HDPE Protective Material

ABT000-001-100

RS PRO UV Safety Glasses, Clear Polycarbonate Lens

- These RS PRO safety spectacles give you excellent protection and are made from tough, impact-resistant polycarbonate which is lighter than normal plastic.
- These high-quality safety glasses have an ergonomic brow guard moulded into the glasses, to provide optimum comfort for the wearer, especially over longer periods of time and they also feature vented side shields to allow for circulation of air and prevent condensation while being worn
- 99% UV protection ensures that these safety glasses are suitable for use in environments with constant exposure to UV



184-5936 Clear Polycarbonate Lens

RS PRO Navy Standard Peak Bump Cap

- Visibility in daylight attributed to the Hi-Visibility colour
- Cooling mesh fabric for increased breathability
- Shock absorption provided by the Inner ABS (acrylonitrile, butadiene and styrene) shell and soft pad



171-6850 BS Protective Material

1716850

Sibille Clear Flip Up PC Face Shield with Brow Guard

- Compact, and durable
- Ultra light
- Excellent panoramic vision



203-0756 230mm Length

E29H



BM Polyco Granite 5 White Leather Coated Kevlar Work Gloves

- Superior quality green grain leather, Tensilite™ lined glove with elasticated wrist, reinforced thumb crotch, protective vein patch and additional leather protection to back of cuff
- Tensilite™ knitted lining exceeds level 5 cut resistance in a yarn that is both soft and comfortable to wear.
- Double stitched Kevlar® thread used throughout.



513-5044 Size 10, Large, 2 Gloves

8913

Mapa Tempdex Yellow Nitrile Coated Nitrile Work Gloves

- Heat resistant – high dexterity with thermal protection
- Dot embossing for better insulation and grip
- Longer lasting with excellent abrasion resistance



874-0563 Size 11, XL, 2 Gloves

710 11

Ansell HyFlex 11-618, HyFlex 11-501, HyFlex 11-735, HyFlex 11-601

- Ultralight duty seamless liner
- Dyneema diamond technology fiber
- Thin PU coating



177-5842 Size 6

11-618 06

6679775 Size 8

11-501/08

1301070 Size 8

11-735/08

731-2915 Size 10

11-601/10

Blue Leather Welding Gloves 9

- Heat resistant, blue
- Gun cut
- Lined interior, cotton padded



by Honeywell

104-1146 Size 9

2000044 9

BM Polyco Polyflex White Polyurethane Coated Nylon Work Gloves

- Tight fitting for maximum dexterity and tactility
- Seamless nylon with open back for comfort and breathability
- Elasticated cuff for snug fit



613-2428 Size 9, Large, 6 Gloves

8803

RS PRO White Cotton Work Gloves

- Secure and comfortable fit
- 18 gauge liner



137-2056 Size 9, Large, 24 Gloves



Blundstone 997 Unisex Zip-up Safety Boot

- 7 eyelet lace up with lace locking device
- Convenient heavy duty zip with zip fastener
- Moulded TPU bump cap for added leather protection
- Padded tongue and collar
- Thermal regulating bamboo lining



Search '997' or scan QR code for sizes

Blundston 310 Black print leather elastic side safety

- With a steel toe cap and TPU sole, the #310 is made to keep you safe and stable. It's a great all-rounder, slip-on work boot.



Search '310' or scan QR code for sizes

Blundstone 892 Women's wheat water resistant nubuck lace up/zip ankle safety

- The #892 safety boot has been designed specifically for women, offering optimum fit, support, comfort and protection.



Search '892' or scan QR code for sizes

8888 Blue Disposable Visitor Shoe Cover

- Composition: polyethylene, welded blue
- Thickness : 20µ (+/-10%)
- Size : 36cm x 15cm (+/-10%)



205-9685 One size

Blundstone 795 Toe Capped Lightweight Safety Shoes

- Black breathable nylon upper uniform safety jogger
- Rubber outsole heat resistant to 140°
- Designed for lightweight comfort
- Elasticated laces with normal lace option
- Airport friendly
- Broad fitting composite toe cap



Search '795' or scan QR code for sizes

Nailers Black Thermoplastic Pull-On Ice Grips

- Firm foothold on ice and snow
- Lightweight yet strong rubber construction works up to -40°C
- Easy fit over footwear



773-4227 Large

#N/A



RS PRO Yellow Men Hi Vis Jackets

- High visibility
- Weatherproof
- Reflective tape marking



918-5983 Large

918-5992 Xlarge

918-6005 Medium

918-6009 Large

918-6018 Xlarge

918-6011 XXLarge

RS PRO Black Gel Adjustable Strap Knee Pad

- One size, gel filled
- Comfortable, extra thick support round the knee
- Single neoprene strap prevents chafing



465-9369 One Size

RS PRO Black Back Support Belt

- Durable and lightweight
- Manufactured from nylon
- Hook and loop fastenings for easy adjustment



015-4857 34 → 38in

Kimberly Clark White Unisex Disposable Lab Coat

- Type 6 (PB) limited chemical protection
- Abrasion Resistance Class 2 (visual) EN 530 M2
- Trapezoidal Tear Resistance Class 2 ISO 9073-4



767-2902 M

96710

Hyflex Black Reusable Polyethylene Cut Resistant Arm Protector

- Narrow fit
- Engineered to perform with any HyFlex cut-resistant gloves



130-1061 16in One size

11-251/406N



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Ideas and advice to help you build better



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