

THE E-MECH SPECIALISTS



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electronics

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Rapid Electronics part of the **CONRAD** Group

LOOK TO THE FUTURE & **SWITCH** TO THE BEST

MARKET LEADER CHERRY HAS LONG BEEN RENOWNED FOR ELECTROMECHANICAL SWITCHES. TODAY THE RANGE IS EVOLVING AND EXPANDING TO INCLUDE HALL SENSOR SOLUTIONS, AND COMING SOON, INNOVATIVE PRODUCTS USING ENERGY HARVESTING TECHNOLOGY.

DISTRIBUTOR FOR CHERRY SWITCHES

Electromechanical snap action, rocker and pushbutton products for the industrial market sector.



DISTRIBUTOR FOR CHERRY SENSORS

HALL-based gearspeed and direction, angle and proximity sensors designed for motors, vehicles & automation systems.



COMING SOON

ENERGY HARVESTING

Autonomous, wireless and batteryless switch solutions for home automation and industrial applications.

THE E-MECH SPECIALIST

E-mech has always been a huge part of what we do at Rapid – so we have dedicated a mailer exclusively to it.

We hope you will find this special publication useful and informative for all things e-mech. It contains a selection from our comprehensive range of electromechanical components and associated products, from brands including Vishay, Finder, Panasonic, Omron, Cherry, Apem and many others.

Please have a browse and see if we can help with your next design or BOM. Whatever you are looking for, from plug-in power relays to toggle switches, ultrasonic sensors to control stations, panel mount indicators to potentiometers, you can find it here, and much more besides. We offer the latest e-mech components – from stock, from our European warehouse or as part of extended ranges available directly from the supplier – at competitive prices and with delivery times that are some of the quickest in the industry.

For more information about individual products, technical specifications and datasheets, please visit our website: www.rapidonline.com.

If you have any product enquiries or further questions about our e-mech range, please do not hesitate to contact us.

Enjoy the e-mech!

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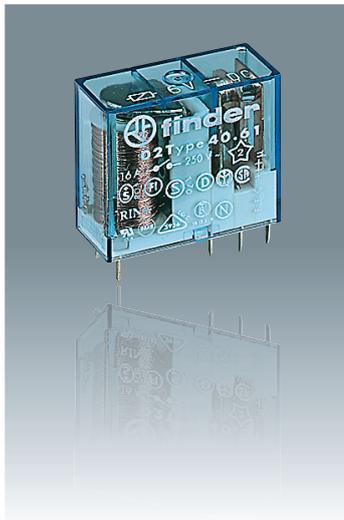
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For our latest up-to-date prices please see www.rapidonline.com

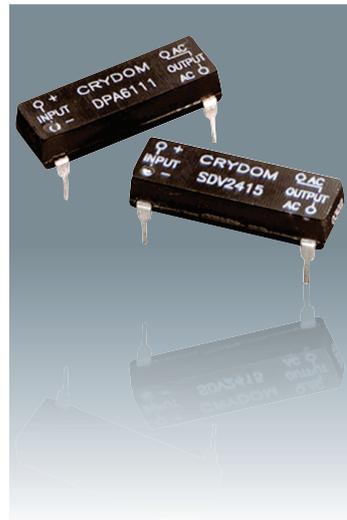


16A Miniature SPDT Relays

A range of industry standard vertical PCB or socket mounted relays.

- Incorporates an 8mm isolation gap between coil and contacts as required by **VDE0700**
- Housed in a dustproof **IP40** tinted case (AC versions have an orange tint)
- **VDE, BEAB, UL, CSA, SEV, NF-USE, SETI, IMQ, SEMKO** and **DEMKO** approved
- **Finder 40.61 series**

Coil	Resistance	Order code	1+	25+	100+	250+
6V DC	55Ω	60-1010	2.78	2.52	2.27	2.10
24V DC	1200Ω	60-1040	2.39	2.14	1.94	1.79
48V DC	3500Ω	60-1045	2.91	2.64	2.45	2.23
60V DC	5500Ω	49-4249	2.63	2.34	2.10	1.92
12V AC	80Ω	49-4252	3.00	2.66	2.40	2.18
120V AC	9000Ω	49-4253	3.47	3.08	2.77	2.52
240V AC	3150Ω	60-1080	4.83	4.35	3.96	3.61

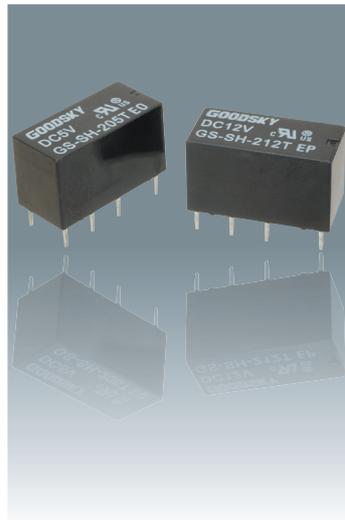


1.5A DIL16 PCB Mount Solid

These SSRs are load relays that come in a PCB mounting DIL-16 package. The relays are suitable for automatic assembly onto high density PCBs. Optically separated SCR outputs.

- Voltage or current-control input
- **CSA, UL** approved

Input	Output type	Order code	1+	5+	10+
10 to 35mA	Zero-cross	50-8372	13.21	11.73	10.40
10-35mA	Rndm turn-on	50-8373	11.17	9.69	8.36
3.5-10V DC	Zero-cross	50-8374	8.11	7.65	7.09
3.5-10V	Rndm turn-on	50-8375	5.66		

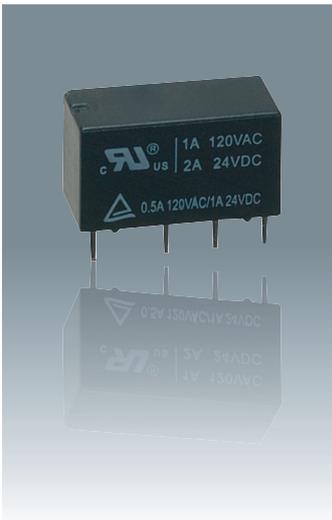


2A Subminiature DPDT Relays

A compact lightweight relay for high density PCB mounting.

- Low coil power consumption
- Available in 5V, 12V and 24V versions
- Fully sealed construction
- Applications include telecommunications and audio equipment
- **C-UL** approved

Mfrs. pt. no.	Coil	Order code	1+	25+	100+	250+
GS-SH-205T	5V DC	60-4754	1.48	1.18	0.964	0.827
GS-SH-212T	12V DC	60-4756	1.04	0.82	0.683	0.61
GS-SH-224T	24V DC	60-4758	1.48	1.18	0.964	0.827



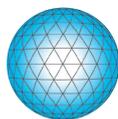
2A Subminiature DPDT Relays

Low signal 2A double pole PCB relay.

- Fully sealed construction
- Suitable for handling low signals
- Applications include computer, telecommunications and security equipment
- Reliable bifurcated crossbar contacts
- Conforms to FCC 68 1500V surge withstand
- **Omron G5V-2 series**

Type	Order code	1+	25+	100+	250+
5V DC	60-2462	1.53	1.35	1.18	1.07
12V DC	60-4446	1.53	1.35	1.18	1.07
24V DC	60-4448	1.58	1.38	1.21	1.10
48V DC	60-4449	1.73	1.64	1.48	1.38
5V DC Hi Sens	60-2468	1.66	1.46	1.29	1.16
12V DC Hi Sens	60-2464	1.66	1.46	1.29	1.16
24V DC Hi Sens	60-2466	1.66	1.46	1.29	1.16

For our full range of Relays and Panel Mount Indicators visit www.rapidonline.com



QS Series 6mm LED Panel Indicators

A range of 6mm snap-in panel mount LED indicators with coloured diffused flat lenses. Ideal for applications such as domestic and commercial white goods, catering equipment, fire alarm panels, power distribution sockets, battery chargers/power supplies.

- Ideal for replacing filament or neon indicators
- Requires no additional hardware
- Available in several colours
- Faston terminals or 200mm wire leads
- **UL496** recognised component

Colour	Voltage	Order code	1+	10+	25+
Faston terminal					
Red	12V DC	63-0593	1.72	1.52	1.37
Green	12V DC	63-0594	1.72	1.52	1.37
Yellow	12V DC	63-0595	1.72	1.52	1.37
Orange	12V DC	63-0596	1.72	1.52	1.37
Blue	12V DC	63-0597	2.14	1.91	1.72
White	12V DC	63-0598	2.53	2.25	2.03
Red	24V DC	63-0599	1.72	1.52	1.37
Green	24V DC	63-0600	1.72	1.52	1.37
Yellow	24V DC	63-0601	1.72	1.52	1.37
Orange	24V DC	63-0602	1.72	1.52	1.37
Blue	24V DC	63-0603	2.14	1.91	1.72
White	24V DC	63-0604	2.53	2.25	2.03

Colour	Voltage	Order code	1+	10+	25+
Wire terminal					
Red	12V DC	63-0605	1.72	1.52	1.37
Green	12V DC	63-0606	1.72	1.52	1.37
Yellow	12V DC	63-0607	1.72	1.52	1.37
Orange	12V DC	63-0608	1.72	1.52	1.37
Blue	12V DC	63-0609	2.14	1.91	1.72
White	12V DC	63-0610	2.53	2.25	2.03
Red	24V DC	63-0611	1.72	1.52	1.37
Green	24V DC	63-0612	1.72	1.52	1.37
Yellow	24V DC	63-0613	1.72	1.52	1.37
Orange	24V DC	63-0614	1.72	1.52	1.37
Blue	24V DC	63-0616	2.14	1.91	1.72
White	24V DC	63-0617	2.53	2.25	2.03

Panasonic



20A PCB Mount SPST Relays

A PCB mounting high power relay for home appliances.

Typical Applications include: Air conditioners, refrigerators, and home appliances.

- Especially suitable for compressor and inverter loads
- High insulation resistance
- Will withstand a 10,000V voltage surge
- Contacts are silver alloy and configured as I Form A (normally open)
- Conforms to **UL/CSA, TUV** and **VDE** pending

Coil	Order code	1+	50+	100+	500+
12V	60-5038	2.72	2.22	1.88	1.65
24V	60-5040	2.95	2.40	2.05	1.80

034971

HF



10A Subminiature High Power 'Cube' Style Relays

These Hongfa relays are subminiature PCB mounting devices that have a 10A switching capability.

- SPDT Contact configuration
- Standard PCB layout
- Plastic sealed
- Flux proof
- 6.0mm pinning
- **cULus, VDE** and **CQC** approved
- **Hongfa HF3FF Series**

Coil voltage	Order code	1+	25+	100+	250+
6V DC	60-1486	0.469	0.439	0.418	0.388
12V DC	60-1488	0.53	0.50	0.469	0.439
24V DC	60-1490	0.571	0.541	0.51	0.479

525142

KUDOM



20, 40 and 80A 'Puck' Style Solid State Relays

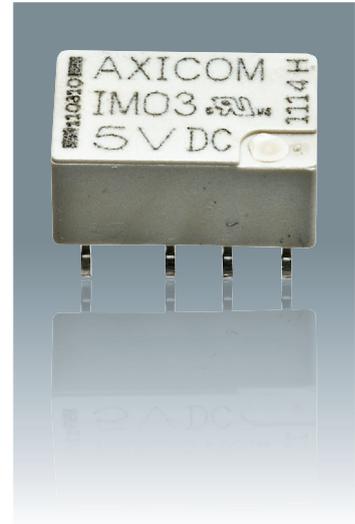
The **KSJ series** are high power single phase DC output solid state relays that have a MOSFET output. The relays are panel mounting devices and are intended for industrial DC applications such as heating systems, high power power supplies, valve operation, DC motors, solar energy, etc.

- Opto-isolation for increased reliability and safety
- Low ON impedance
- Built in LED indicator
- Dielectric strength 2500V
- Superior thermal performance

Type	Order code	1+	5+	10+
SSR 20A	60-1588	16.63	15.30	14.09
SSR 40A	60-1589	20.25	18.41	16.87
SSR 80A	60-1590	18.48	16.79	15.40

546293

TE connectivity



2A SMD DPCO Signal Relays

These signal/telecommunications relay are surface mount devices that come in a 'gull wing' surface mounting package.

The slim line 10 x 6mm dimensions along with the 5.65mm low profile and footprint of just 60mm² make these relays ideal for use on PCBs.

A rated switching current of 2A, switching voltage of 220V DC/250V AC and switching power of 60W/62.5VA together with other features such as high mechanical shock resistance mean that these relays are perfect for use in applications such as: Telecommunication, access and transmission equipment, optical network terminals, modems, office and business equipment, consumer electronics, measurement and test equipment, industrial control, medical equipment, automotive applications.

- Break before make double pole changeover contacts
- Slim line and low profile
- Polaris
- Surface mounting 'gull wing' package
- Suitable for reflow soldering
- Bifurcated contacts
- High sensitivity gives low nominal power consumption
- High surge capability
- High mechanical shock resistance
- IP67 rated, suitable for immersion cleaning
- Meets **Bellcore GR 1089, FCC Part 68** and **ITU-T K20, K21, K45**
- **UL 94V-0** approved

Type	Order code	1+	50+	100+	250+
Relay 5V DC	60-1278	1.72	1.24	1.08	0.83
Relay 12V DC	60-1280	2.18	1.50	1.36	1.13
Relay 24V DC	60-1282	1.86	1.43	1.13	0.987

502664

SIGNAL-CONSTRUCT

8mm Panel Mounting Indicator Lamps 12V DC 5mm LEDs Internal Reflector

LED indicator for direct operation on the given nominal voltage. The series resistor required with standard LEDs is already inbuilt into the housing making standard wiring superfluous. The chrome-plated brass housing, the wide working temperature range and long life make it incredibly versatile. Connection is by means of fast-on connections or soldering.

- Complete with fixing nut and washer

Type	Order code	1+	5+	10+
Recessed green LED	50-2199	1.62	1.48	1.36
Recessed yellow LED	50-2200	1.62	1.48	1.36
Recessed red LED	50-2201	1.62	1.48	1.36
Recessed blue LED	50-2202	1.62	1.48	1.36
Recessed white LED	50-2203	2.20	2.00	1.84

520142



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ENERGY INNOVATION COMES TO LIGHT

10mm Indicators with Integral Resistor

High quality panel mounted LED indicators that are suitable for a wide range of applications.

To find out more about our range of CML indicators, lamps and LEDs, please visit our CML brand page.

- Integral resistor enables direct connection to relevant supply
- Prominent style indicator in a brass housing
- Connections via faston/solder tag terminals
- Satin or black chrome bezels
- **CE** approved

Type	Order code	1+	10+	50+	100+
24V DC Red	42-0989	3.76	3.52	3.42	3.12
24V DC Super red	42-1304	2.85	2.67	2.51	2.21
24V DC Green	42-1306	2.85	2.67	2.51	2.21

029282



For technical specifications and data sheets visit www.rapidonline.com

CONTACT and PROXIMITY SWITCHES

MCS-136

Aluminium Magnetic Contact Switch, Magnets and Armoured Cable



These magnetic contact switches come in an aluminium housing and have armoured cable, making them suitable for use in harsh conditions in both industrial and commercial applications. The switches are supplied with a matching magnet.

- Available in normally open or normally closed types
- Surface mounted
- Metal magnetic contacts
- Includes fixings
- Dimensions: 50 x 17 x 9.8mm
- cULus Approval

Type	Order code	1+	25+
Proximity switch NO	78-4010	4.52	4.23
Proximity switch NC	78-4011	5.88	5.51

552774

MCS-137

Aluminium Magnetic Contact Switch, Magnet, Bracket and Armoured Cable



These low cost magnetic contact switches have a heavy duty extruded aluminium case and 22in armoured cable, making them suitable for use in harsh environments. Supplied with a wedge shape magnet that makes the switches ideal for use as heavy duty door contacts in both industrial and commercial applications.

- Small size
- Available in normally open or normally closed types
- Includes fixings
- Switch dimensions: 88.9 x 44.5 x 11.5mm
- 22AWG Wire
- cULus Approval

Type	Order code	1+	25+
Proximity switch NO	78-4012	6.14	5.74
Proximity switch NC	78-4013	7.50	7.02

552775

MCS-139

Aluminium Magnetic Contact Switch, Magnet, L Bracket and Armoured Cable



These low cost magnetic contact switches feature an extruded aluminium case and 22in armoured cable that make them suitable for use in harsh conditions. Supplied with an L shaped bracket and matching magnet, making the switch suitable for use as an overhead door contact.

- Available in normally open or normally closed types
- Slotted L bracket enables adjustment
- Includes fixings
- Switch dimensions: 104.5 x 44.5 x 11.5mm
- Bracket dimensions: 107 x 50 x 50mm
- 22AWG Wire
- cULus Approval

Type	Order code	1+	25+
Proximity switch NO	78-4015	8.54	7.99
Proximity switch NC	78-4016	9.92	9.29

552776

MCS-141

Aluminium Wedge Metal Switch and Magnet Set with Cable



These low cost magnetic contact switches have a heavy duty extruded aluminium case and 22in armoured cable, making them suitable for use in harsh environments. Supplied with a wedge shape magnet that makes the switches ideal for use as heavy duty door contacts in both industrial and commercial applications.

- Small size
- Available in normally open or normally closed types
- Includes fixings
- Switch dimensions: 88.9 x 44.5 x 11.5mm
- 22AWG Wire
- cULus Approval

Type	Order code	1+	25+
Proximity switch NO	78-4017	8.54	7.99
Proximity switch NC	78-4018	9.92	9.29

552778

MCS-142

Aluminium Wedge Metal Switch and Magnet Set with Cable



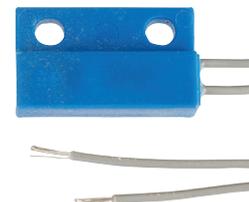
Heavy duty magnetic contact switches in a short, wedge-shape extruded aluminium housing. The switches have a 22in armoured cable and come with a matching wedge-shape magnet. Ideal for use as heavy duty door contacts for industrial and commercial applications in harsh environments.

- Available in normally open or normally closed types
- Includes fixings
- Switch length 73.2mm
- 22AWG Wire
- cULus Approval

Type	Order code	1+	25+
Proximity switch NO	78-4019	8.70	8.14
Proximity switch NC	78-4020	10.06	9.41

552779

Proximity Reed Switches



A range of right hand and left hand proximity switches based on Reed switch technology with a choice of normally open, normally closed and changeover contacts. Ideal for applications such as position and limit sensing, linear actuators, security systems switch, door switch, etc.

- Switching distance 8mm
- Available in two lengths 20 and 23mm
- Cable length 300mm (1000mm for 61-2114)
- Nylon case material
- Suitable magnets are also available (see below)

Type	Order code	1+	10+	50+
23mm Long				
RH Reed switch NO	61-2100	3.05	2.80	2.39
RH Reed switch NC	61-2101	3.89	3.62	3.11
RH Reed switch CO	61-2102	3.95	3.68	3.16
LH Reed switch NO	61-2103	3.05	2.80	2.39
LH Reed switch NC	61-2104	4.17	3.67	2.97
LH Reed switch CO	61-2105	4.48	4.13	3.52
Magnet for MPSx	61-2106	2.30	2.13	1.81

Type	Order code	1+	10+	50+
20mm Long				
RH Reed switch NO	61-2107	3.05	2.80	2.39
RH Reed switch NC	61-2108	4.66	4.29	3.66
RH Reed switch CO	61-2109	4.74	4.38	3.71
LH Reed switch NO	61-2110	3.05	2.80	2.39
LH Reed switch NC	61-2111	4.66	4.29	3.66
LH Reed switch CO	61-2112	3.70	3.33	3.15
Magnet for MMPSx	61-2113	3.71	2.75	1.14
RH Rd sw NO 1m cable	61-2114	7.91	5.79	2.39

547708

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Also available

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- Tilt Switches
- Tip-over Switches
- Acceleration Switches
- Float Switches

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LABFACILITY

TEMPERATURE & PROCESS TECHNOLOGY

Labfacility specialises in the field of Temperature and Process Measurement and is the largest UK manufacturer of both temperature sensors and thermocouple connectors.

AS Series Standard ANSI Thermocouple Connectors

A range of thermocouple connectors that are of standard size and are intended for industrial applications. The connectors are designed with solid, round pins and are manufactured using true thermocouple alloys helping to reduce the amount of electrical errors.

A wide range of connector styles are available, panel mounting connectors and twin-channel duplex connectors. Some of the connectors are available with quick wire terminations which make connection simple and easy. The panel mounting sockets are available with or without mounting brackets and quick wire terminations.



From only
£2.57
Order code
61-3071

IS Series Standard IEC Thermocouple Connectors

These standard-sized thermocouple connectors are designed for industrial applications. The connectors have solid, round pins made from true thermocouple alloys, reducing errors.

The connectors are available in a wide range of styles, including panel connectors, twin-channel duplex connectors and quick wire terminations.



From only
£2.37
Order code
61-1288

AM Series Miniature ANSI Thermocouple Connectors

These miniature thermocouple connectors are colour coded to the ANSI specification. The connectors are designed with flat pins and have terminal/contact materials that are matched to the thermocouple type, which reduces electrical errors.

The connectors are available in a selection of connector styles, including, panel mount and PCB connectors - various connectors being available with easy quick wire termination and mounting brackets.



From only
£1.52
Order code
61-3050

IM Series Miniature IEC Thermocouple Connectors

A comprehensive range of miniature thermocouple connectors with flat pins and terminal/contact materials matched to the thermocouple type, thus avoiding the introduction of errors. The thermocouple connectors are available in K, J and T types in a selection of connector styles, including panel mount and PCB mount sockets, plugs and sockets with easy quick wire termination, panel sockets with mounting brackets and also with quick wire termination.



From only
£1.60
Order code
61-1140

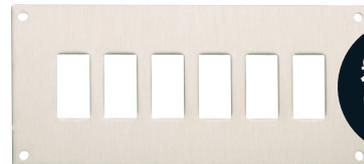
“ Labfacility’s range of thermocouple connectors are available in varying sizes and approval ratings and have been instrumental in making the company one of the leading brands in its field. ”

MOUNTING ACCESSORIES ALSO AVAILABLE



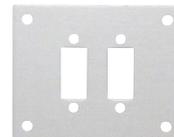
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MOQ 5

Panels for Miniature Fascia Thermocouple Sockets



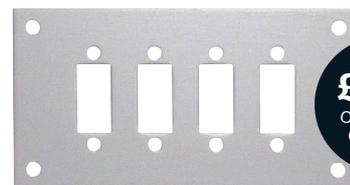
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£2.02
Order code
61-3110
MOQ 5

Panels for Standard Fascia Thermocouple Sockets



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£5.23
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MOQ 5

Panels for Miniature Panel Mount Thermocouple Sockets with Mounting Brackets



From only
£6.16
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MOQ 5

Panels for Standard Panel Mount Thermocouple Sockets with Mounting Brackets

Coming soon: Complete range of ANSI approved thermocouple connectors and cable



Miniature
Toggle
Switches



SPST
Miniature
Rocker
Switches



SPST LED
Tip Toggle
Switches



DPST
Illuminated
Snap-in
Rocker Switches



DPST Miniature
Visible on
Rocker
Switches



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Miniature
Tactile
Switches



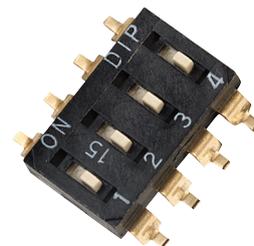
Square Button
12x12mm Tactile
Switches



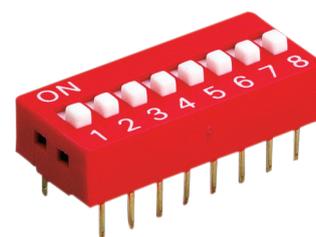
Buttons for
6x6mm Tactile
Switches



SMT
End-stackable
DIL Slide
Switches



Code
Selector
Switches
DS



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Taiwan Alpha **CAMDENBOSS**
ELECTRONICS & ENCLOSURES



White Label



Vandal Resistant Switches



DPST On-Off Toggle Switches



Keylock Switches



250V 3A Push-button Switches



IP69K Vandal Resistant 22mm Piezo Switches



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IP67 Miniature Sealed Push-button Switches



IP67 Vandal Resistant Push-button Switches



IP67 Halo Illuminated Vandal Resistant Switches



IP67 10A Heavy Duty Push-button Switches

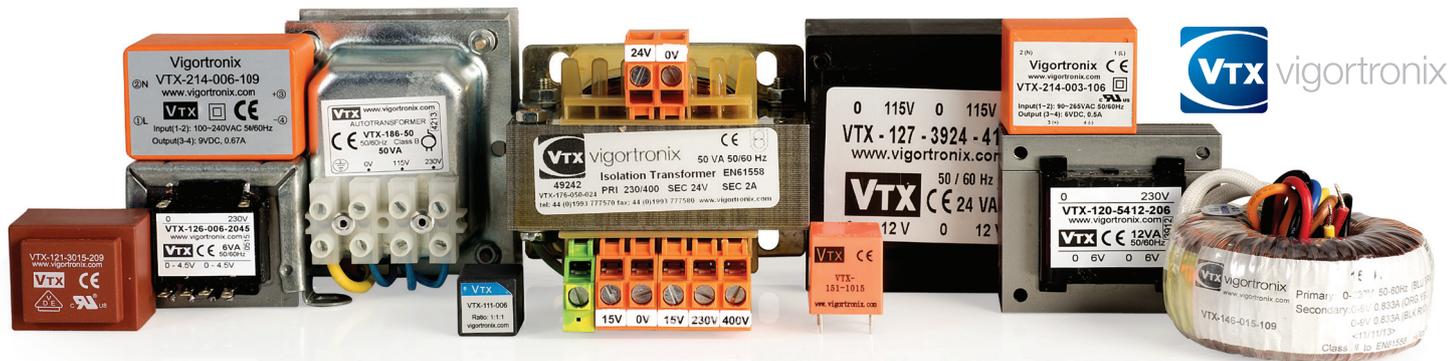


IP67 10A Steel Vandal Resistant Switches



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For full details visit www.rapidonline.com/vigortronix

BLOCK

AIM Autotransformers

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From only **£33.03**

PCB Mount

Order code 51-5235
From only **£2.27**

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Taiwan Alpha

RV16AF Series Potentiometers 16mm LIN Metal Case Solder Lugs

A range of potentiometers in a ø16mm metal case with solder tabs. Suitable for general purpose use.

- Linear taper
- Milled shaft
- 300° Rotation stop



Technical specification

Rated voltage	200V AC
Rated power	0.125W
Insulation resistance	>100MΩ
Dielectric strength	500V AC
Terminals	Solder tabs
Rotation angle	300°
Diameter	16mm
Shaft length	15mm
Shaft diameter	6mm

Value (Ω)	Order code	1+	50+	500+
470R	65-0750	0.67	0.53	0.40
1K	65-0751	0.67	0.53	0.40
4K7	65-0752	0.67	0.53	0.40
10K	65-0753	0.67	0.53	0.40
22K	65-0754	0.67	0.53	0.40
47K	65-0755	0.67	0.53	0.40
100K	65-0756	0.67	0.53	0.40
220K	65-0757	0.67	0.53	0.40
470K	65-0758	0.67	0.53	0.40
1M	65-0759	0.67	0.53	0.40



Slide Potentiometers LIN 20%

A range of slide potentiometers with either 45 or 60mm of travel in a choice of single or dual gang configurations.

- Metal lever
- Tolerance 20%
- Linear law



Technical specification

Tolerance	20%
Taper	Linear
Lever length	10.4mm
Residual resistance	10Ω
Input voltage	200V AC
Power rating	0.125W 45mm, 0.2W 60mm
Dielectric strength	300V AC
Insulation resistance	100MΩ
Sliding noise	<\$100mV
Gang error	±3dB
Sliding life	100,000 Cycles
Dimensions 45mm	60 x 9 x 6.5mm
Dimensions 60mm	75 x 9 x 6.5mm

Value (Ω)	Slide travel	Order code	1+	50+	100+
Single gang					
500R	45mm	58-6073	1.23	0.98	0.79
1K	45mm	58-6074	1.23	0.98	0.79
5K	45mm	58-6075	1.23	0.98	0.79
10K	45mm	58-6076	1.23	0.98	0.79
50K	45mm	58-6077	1.23	0.98	0.79
100K	45mm	58-6078	1.23	0.98	0.79
500K	45mm	58-6079	1.23	0.98	0.79
1M	45mm	58-6080	1.23	0.98	0.79
1K	60mm	58-6081	1.35	1.08	0.86
5K	60mm	58-6082	1.35	1.08	0.86
10K	60mm	58-6083	1.35	1.08	0.86
50K	60mm	58-6084	1.35	1.08	0.86
100K	60mm	58-6085	1.35	1.08	0.86
500K	60mm	58-6086	1.35	1.08	0.86
1M	60mm	58-6087	1.42	1.14	0.91
Dual gang					
500R	45mm	58-6088	1.39	1.12	0.89
1K	45mm	58-6089	1.32	1.06	0.85
5K	45mm	58-6090	1.32	1.06	0.85
10K	45mm	58-6091	1.32	1.06	0.85
50K	45mm	58-6092	1.32	1.06	0.85
100K	45mm	58-6093	1.32	1.06	0.85
500K	45mm	58-6094	1.32	1.06	0.85
1M	45mm	58-6095	1.39	1.12	0.89
1K	60mm	58-6096	1.44	1.15	0.92
5K	60mm	58-6097	1.44	1.15	0.92
10K	60mm	58-6098	1.44	1.15	0.92
50K	60mm	58-6099	1.44	1.15	0.92
100K	60mm	58-6100	1.44	1.15	0.92
500K	60mm	58-6101	1.44	1.15	0.92
1M	60mm	58-6102	1.52	1.21	0.97

ALPS Motorised 20K dual-gang rotary potentiometer

A high quality 20KΩ rotary potentiometer that can be adjusted manually or remotely controlled using the small built-in DC motor. Its dual-gang, log law configuration makes it ideal for use as a volume control in Hi-Fi amplifiers and CD/DVD players and other professional audio applications.



- Suitable for PCB mounting
- Metal shaft
- Tolerance 20%
- Rotation 300°
- 4.5V DC motor supply
- Rated power 50mW
- Maximum voltage 30V AC
- Overall width 36.2mm
- M8 bush with 20mm long, ø6mm plain round shaft
- Alps RK271 series

Technical specification

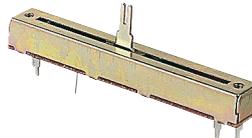
Power rating	50mW
Operating current max.	At rotation 100mA
	At end slip 150mA
Voltage rating	30V AC
Tolerance	20%
Gang error	-60 dB to 0dB within 3dB
Insulation resistance	100MΩ min. @ 250V DC
Voltage proof	1mins. @ 300V DC
Rotational angle	300° ±5°
Rotation torque	15 to 45mN·m
Rotation speed	25°/s
Motor voltage	4V to 6V DC
Operating life	15,000 cycles
Operating temperature range	-10°C to +60°C

Type	Order code	1+	10+	25+
20K Motorised pot.	66-0226	19.82	17.54	16.45

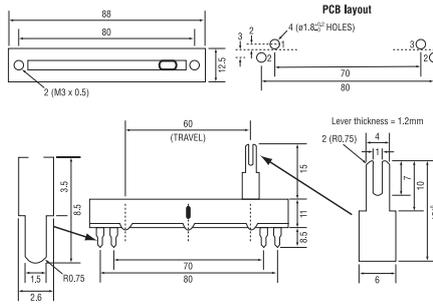


Slide Potentiometers

Good quality 60mm travel single track slide potentiometers intended for PCB mounting (or may be hard wired if required). Available in a wide range of popular values in both Log and Linear laws.



- Suitable for use in mixers, audio consoles, lighting equipment, etc.



Technical specification

Dimensions	80 x 12 x 16mm
Slider length	15mm
Travel	60mm
End resistance	1% nominal
Power rating	0.5W Linear law
	0.25W Log law
Maximum voltage	500V DC Linear law
	250V DC Log law
Slide force	50-350gm/cm
Temperature range	-25°C to +70°C

Type	Order code	1+	100+	500+	1000+
10K lin	66-0105	0.818	0.678	0.585	0.551
100K lin	66-0120	0.818	0.678	0.585	0.551
500K lin	66-0130	1.03	0.854	0.731	0.687
10K log	66-0140	1.03	0.854	0.731	0.687

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Leading Potentiometer brands available from Rapid





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£10.47
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A high quality communication and control cable.
• Supplied on **reels of 30.5m**

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Bus-cable for RS-485-application (CAN-Bus)

An industrial data cable for RS-485 applications such as HART, CAN open or DMX 512.
• Supplied by the **metre**

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XPC OFC Professional I-pair

This OFC I-pair is designed for use where a small diameter balanced signal is required.
• Supplied on **reels of 100m and 500m**



TPE Control Cable

A range of igus TPE Control Cable from the Chainflex® CF10 Series. This Chainflex cable has been designed for use in cable carrier systems on automated, mobile machinery.
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This wide range of LiYY cable is UL approved, unshielded, PVC covered, and ideal for data transmission.
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Microphone Cable

A range of Sommer Cables SC-SOURCE MKII HIGH-FLEX Microphone Cables. This cable was originally developed for the manufacturers of professional studio microphones, e.g. BPM and Schoeps.
• Supplied by the **metre**



Screened Signal Multicore Cable – Defence Standard

A wide range of multi-core screened "type C" flexible cable that have an overall polyester tape with a tinned copper wire braid screen.
• Supplied on **reels of 100m**



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• Supplied by the **metre**



15AWG Professional Speaker Cable

A high-quality speaker cable with 2x 3.0mm². The cable is available in red/black and in blue/black.
• Supplied on **reels of 30m**

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A range of LappKabel Standard PVC Spiral cable from the HO5VV-F Series. This cable is able to extend up to 3 times the un-extended spiral length.
• Supplied in **lengths of 0.9, 1.5 and 3m**

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These high grade tinned copper braided earth leads cover sizes 0.5mm to 25mm to suit a wide range of applications.
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The ScotchCode STD Tape Dispenser is a compact, carry-along dispenser with ten refillable compartments, which hold eight-foot rolls of non-smear polyester tape.



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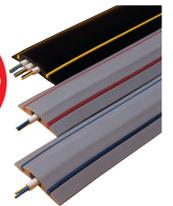


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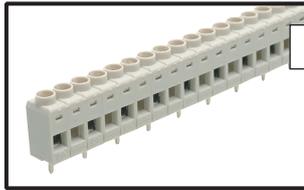
Plastic metric cable glands with short thread from the Wiska ESKV series, available in light grey, black or silver-grey.



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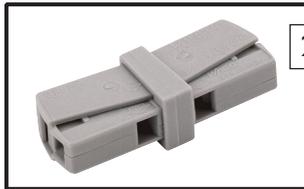
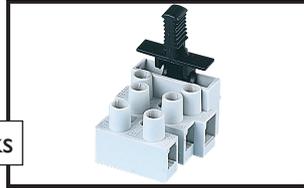
10mm/10.16mm

DIN Rail Connectors



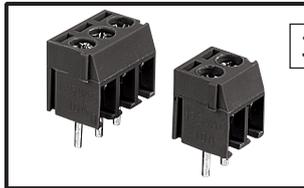
2/3 Tier

Fused Terminal Blocks



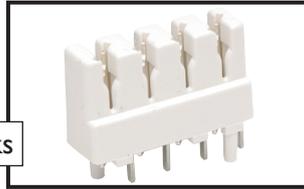
2.5/2.54mm

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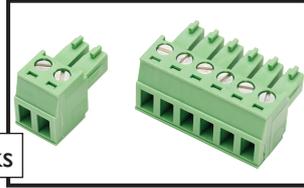
3.5/3.81mm

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45 Degree

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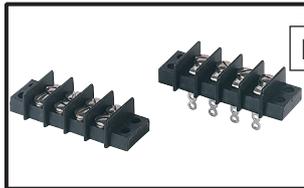
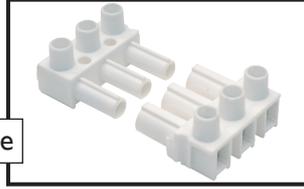
5.0/5.08mm

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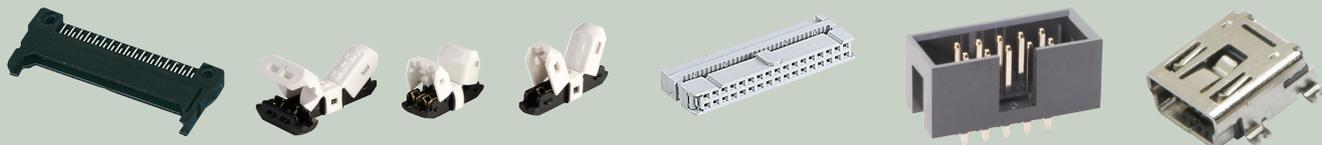


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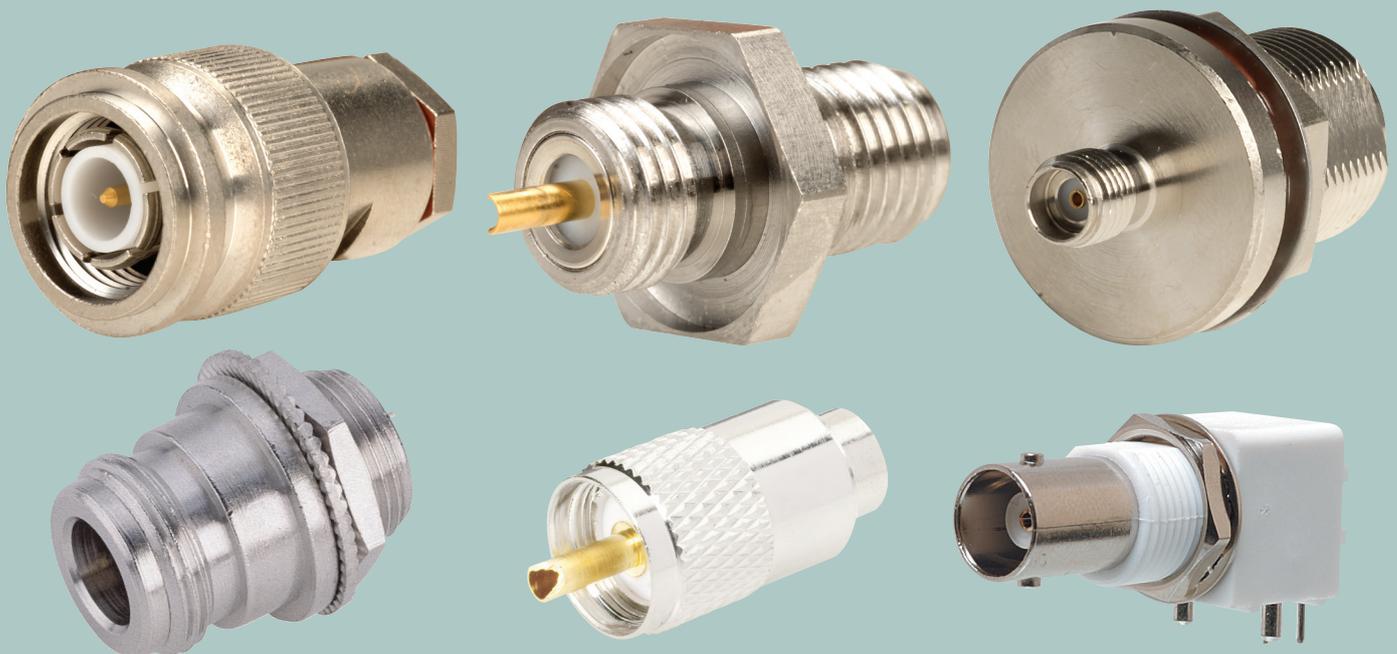
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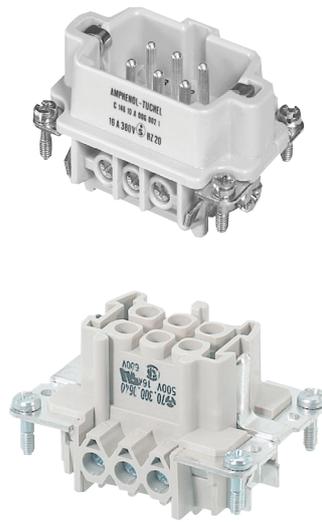
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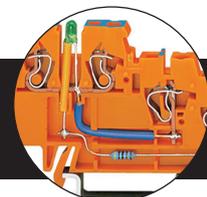
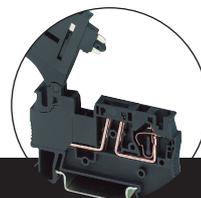
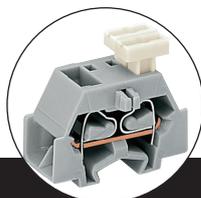
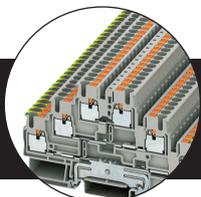
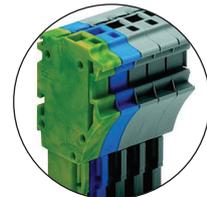
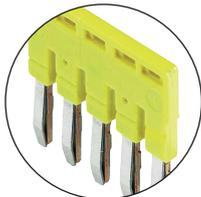
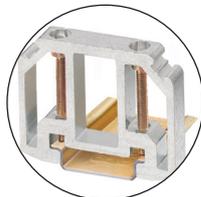
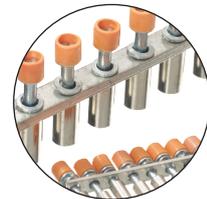


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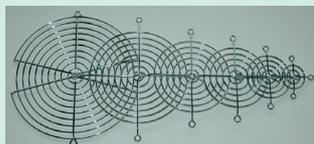
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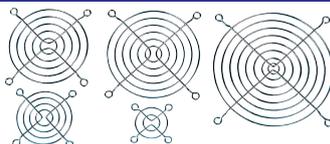
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40mm x 40mm
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120 x 120 x 38mm

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40 x 40 x 10mm

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60 x 60 x 15/25mm

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150 x 172 x 38mm

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24V Planetary Geared DC Motors

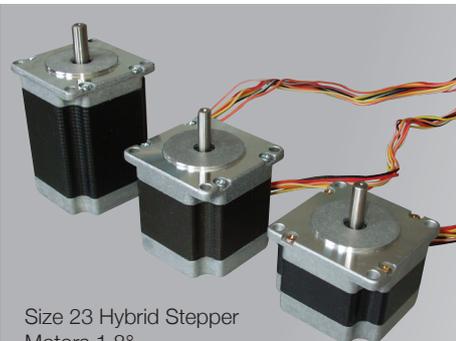


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Fixed Ratio 42mm Epicyclic Geared Motors

Stepper Motors



Size 23 Hybrid Stepper Motors 1.8°



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Size 16 Linear Actuator



Stepper Dampers

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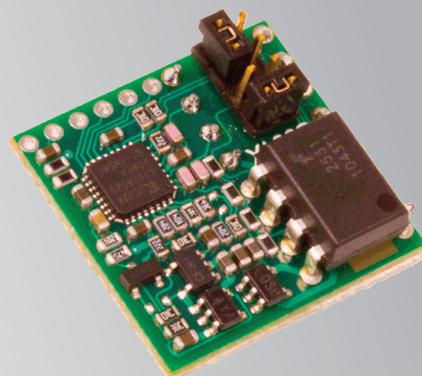


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MicrostepperMotor Drive
0.25 A to 2.2 A/phase
12 to 48VDC



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Keep a look out on our Website for Bopla enclosures coming soon ...



A Phoenix Mecano Company



FREE DELIVERY ON ORDERS OVER £30 (exclusive of VAT)

Contactors



Contactor Coil

This Techna range of mini block contactors. KTEC series contactors provide a complete solution for your AC contactor requirements.



Standard Contactors

This range of electric contactors available from IMO Controls comprises of three-pole versions, with DC coil control.



3kW 3-pole Contactors

A range of popular dual frequency contactors specially designed for heavy duty industrial applications. To find out more about the full range of ABB products please visit Rapid's ABB page.



Three Pole Contactors

A wide range of Eaton Three-pole Contactors with an Electro-magnetic AC Coil from the DIL M Series. The Contactors feature dual power terminals on units up to 400A.



Switching Contactor

A wide range of Siemens Sirius Contactors from the 3RT1 Series. These switching contactors are the most commonly used switching devices in industry, mechanical engineering and in switchgear and control gear.



Solid State Contactors - 4.8A/7.6A

DRC Series with a control voltage range up to 24V AC/DC or 230V AC. Designed for mounting on a 35mm DIN rail and manufactured with either instantaneous or zero-crossing turn-on.



Measuring Contactors

These MCR Voltage Measuring Contactors have been designed for alternating current voltages, sinusoidal alternating currents, electrical isolation, converting potentiometer positions and amplification/filtering of standard signals.

From only **£6.46**
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From only **£11.89**
Order code 28-4007

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From only **£15.60**
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From only **£39.89**
Order code 59-2071

From only **£92.88**
Order code 51-2993

Relays



MCB-7 Time Delay Relay, Timer

Time relays for time ranges between 0.1 seconds to 60 hours.

- 230V AC or 24V AC/DC operating voltage
- Switch-on delay
- 1 8A relay output

Only **£24.64**
Order code 51-9172



Time Delay Relays IP65 - Multifunction Timer

These IP65 time delay relays from Crouzet are quality multifunction timers equipped with a host of excellent functions. There are two versions available with supply voltage: 24V AC/DC, 110V AC or 24V DC, 220V AC.

From only **£107.15**
Order code 49-3570



3-Phase Solid State Contactors 90mm DIN Rail Mounting

These solid state contactors are rated at 25A per phase and are designed to fit a standard 35mm DIN rail profile. The contactors are available with a choice of control voltages and output switching types and also have SCR outputs for high switching loads in industrial applications.

From only **£99.96**
Order code 51-0098



SIRIUS Time Delay Relay Timer

This range of Siemens DIN Rail Timing Relays from the SIRIUS 3RP1 Modular System are perfectly suited for all delayed switching processes in control, starting, protection and regulation circuits.

From only **£40.39**
Order code 55-7911



TF42 Series Thermal Overload Relays

This wide range of thermal overload relays are economic electromechanical protection devices for the main circuit. They are used mainly to protect motors against overload and phase failures. Starter combinations are set up together with contactors.

From only **£25.25**
Order code 28-3438



Relay Module

A range of Finder 6A Relay Modules from the 7S series designed for 35mm DIN rail mounting. The relay modules are 22.5mm wide and supplied with forcibly guided contacts. The supply voltage of the relays is 24V DC and they are available with 2, 4 and 6 contacts, manufactured from AgNi.

From only **£23.41**
Order code 50-5066



TM16+ Multifunction Relay

This multifunction DIN rail mounting timer relay has 8x timing functions, selectable by DIP switch, that include: delayed drop off, delayed pick up, momentary pick up with impulse control, momentary On/Off, momentary drop off with impulse control, momentary pick up, flash starting with pulse, flash starting with pause.

Only **£19.29**
Order code 63-0252

Frequency Inverters



Frequency Inverters M-Max, Single and 3-Phase

A wide range of Eaton Frequency Inverters from the M-Max™ Series that allow a continuously variable speed control of three-phase asynchronous motors. They are specially suited for applications in which ease of handling and cost effectiveness have a high priority.

From only **£159.26**
Order code 60-8351



VD/E2 Series Frequency Inverters

These IP66 rated 3-phase AC drives have a compact, DIN rail mounting design and feature easy installation and programming. Additional features such as DC braking, a PWM clock frequency of 4 to 32kHz and adjustable fixed frequencies. Applications such as pumps, grinding machines, ventilators, textile machines, woodworking machines, conveying systems, printing machinery, packaging systems, etc.

From only **£453.57**
Order code 63-5977



SINAMICS G120C 3-Phase Frequency Inverter

This range of Siemens Compact Inverters from the SINAMICS G120C Range have been especially designed for machine manufacturers who are looking for an economic, space saving and easy to operate frequency converters providing a multitude of functions.

From only **£324.31**
Order code 55-6271

Light Switches & Sensors



Staircase Light Switch

The **Eaton 101064** is a **Staircase Light Switch** with a switch-off warning (according to **DIN 180-15-2**), and is rated at 250V AC, 8A. The rotary switch can be set to turn the lights On and Off from 1 second to 100h. The switch also has a permanent ON and OFF function.

Only **£11.71**
Order code **60-7395**



Time Switches 250VAC, 16A Mechanical and Digital Time Switches from the 12 Series.

These time switches are available in Mechanical Daily Time Switch, Digital Weekly Time Switch and Digital Time/Astro-Switch. This range is for mounting on 35mm DIN rail, apart from the 12.31 which are front installation.

From only **£30.17**
Order code **49-2983**



ELPA8 Staircase Switch

- Adjustable from 1 to 7 minutes in 15 second steps
- Sliding switch for continuous light
- Can switch up to 2300W of incandescent, 1300VA fluorescent or 100W of L.E. lighting
- Manufacturers part no. **TimeGuard ELPA 8**

Only **£30.36**
Order code **23-9291**

Motor Starters



MS132 Range Manual Motor Starter

This range of Manual Motor Starters (MMS) are protection devices for the main circuit. They combine motor control and protection in a single device.

From only **£33.67**
Order code **28-3394**



Soft Start Devices

The **DUOSTART** are a range of 2-phase controlled soft start devices that feature DIN rail mounting, simple installation, soft acceleration and deceleration, adjustable starting torque, starting time and flow time. Suitable for applications such as door and gate drives, pumps, fans, conveyors, packaging machines, etc.

From only **£100.14**
Order code **63-4905**



SIRIUS Soft Starter, 3RW3 and 3RW4 Series

A range of **Siemens Soft Starters** from the **3RW30** and **3RW40** ranges. These starters are used to start three-phase induction motors with reduced torque and reduced starting current, in both simple or standard applications.

From only **£94.81**
Order code **55-6078**

Circuit Breakers



Earth Leakage Relay 30mA 30A Manual Reset + Core Transformers

The **17G715GF2** is a fully featured 110-240V AC. Earth Leakage Relay, with SPCO alarm relay and 'positive safety' NC relay which opens on internal fault. This relay also monitors, detects and protects power systems from Earth leakage faults.

From only **£23.94**
Order code **28-3946**



Overload relay

A range of thermal overload relays for direct or remote mounting available for the entire range of contactors.

- MCOR-1 for use with MC10-S to MC22-S
- MCOR-2 for use with MC24-S to MC40-S
- Single phase protection
- Temperature compensation
- Trip and alarm contacts
- Manual and auto reset

From only **£24.77**
Order code **28-4018**



Miniature Circuit Breakers

Techna's **GTEC** range provides maximum price/performance ratios for customers requiring 6kA protection. **GTEC** MCBs are available in a wide range of ratings in trip curves B, C and D. For more demanding applications a high current variant is available. The winning benefits of competitive price and proven reliability keep customers re-ordering.

From only **£1.53**
Order code **28-5145**



SIRIUS 3RV1 Circuit Breakers

Siemens SIRIUS 3RV101, 3RV102 and 3RV103 Circuit Breakers can be used as Type E self-protected manual combination starters per UL508, or as components in Group Installation to turn motors On and Off. Each device has built-in heater element that provides overload protection and magnetic trip elements to protect the motor.

From only **£40.90**
Order code **55-7147**



Miniature Circuit Breakers

Miniature circuit breakers designed for protection of electrical installations against overload and short circuits. Manufactured in accordance with **EN60898**.

Available in 10kA breaking capacity with C and D type trip curves. They are available in single pole, two pole and three pole options including neutral. The Amp range covered is 2A to 63A.

From only **£3.21**
Order code **28-4131**



Residual Current Circuit-Breakers

A range of **Eaton Din Rail 2-Pole Residual Current Circuit-Breakers** with **Tripping Characteristic A** from the **PXF-A Series**. The circuit breakers have a Trip Sensitivity of 30mA. The DIN Rail Mount Protects in particular non-smoothed forms of DC fault currents (type A according to **EN61008**). The circuit breakers are fitted with function test button.

From only **£16.37**
Order code **60-8274**



DIN Rail Circuit Breaker, Output 24V 4x 2 10A

The **PM 0724-400-1** is a **DIN Rail Circuit Breaker** that distributes and monitors the load current over several current circuits. Overloads and short circuits on an output are reliably recognised.

Only **£66.66**
Order code **59-2539**

Sirens & Beacons



EL Series Large Beacons/Lens

This is a range of high-powered large Xenon warning beacons from Delta Design's EL Series, designed for a variety of industrial applications.

Each beacon has an inner Fresnel lens and an easy-to-clean outer lens, making it ideal for outdoor use.

From only **£21.75**
Order code **43-3402**



XVB LED 24V Tower Lights - IP65

These **LED tower lights** from **Schneider** are ideal for long distance signalling (35-50m) and versatile in different environments - from a dark warehouse to a murky motorway. Designed not only to deliver high performance and protection, but also superb brightness.

Reliable, with a built-in high-efficiency LED offering 100,000 hours of maintenance-free lighting.

From only **£56.98**
Order code **57-7453**



Combination Red LED Flash/Buzzer, 92dB

A range of **Combination LED Flash/Buzzers** from the **423 Series** that sets new standards for optical acoustic signalling.

The combination unit emits a very bright light signal with the powerful sound of a buzzer. The continuous/pulse tone has a sound output level of 92dB can be clearly heard above environmental noise.

From only **£113.66**
Order code **63-9274**

FREE DELIVERY ON ORDERS OVER £30 (exclusive of VAT)

Panel Displays & Meters



Digital Panel Mount Ammeter

A wide range of ENTES Panel Mount Ammeters from the EPM-4x-xx Series. These ammeters measure the RMS Value of current in Single Phase Networks and save the maximum, average and instantaneous demand values.

ENDA



EPV141 Programmable Voltmeter

A panel mounting programmable digital voltmeter that can measure AC, DC and true rms voltages. Indication is by a 3-digit LED display and there is a front panel keypad for control. A multifunctional alarm relay output that can be used to indicate upper and lower limits.

GREISINGER electronic



Displaying and Regulating Device for 230V

A range of Greisinger Microprocessor Controlled Displays used for monitoring and controlling devices. The devices are supported by the interface for Normalised Signal Input and Pt1000 (2-wire-technology) type GIR230 Pt1000 / DIF.

LASCAR electronics



TFT Development Kit and Meters

The Lascar PanelPilotACE Hardware and Software Display Platform enables the rapid development of fully customised industrial and commercial user interfaces and panel meters. This wide range of PanelPilotACE products, feature a multifunctional touch-screen colour display with simple drag-and-drop design software that removes the need for any coding. This cuts development time for even the most advanced displays by months.

SIEMENS



SENTRON Multifunctional Meters

Siemens SENTRON Multifunctional Panel Meters are powerful compact power monitoring devices that are suitable for use in industrial, government and commercial applications, where basic metering and energy monitoring is required. The meters may be used as standalone devices monitoring over 25 parameters or as part of an industrial control, building automation or global power monitoring system.

TDE Instruments



Digital Panel Meters 61 Series -R, -TG, -TW, -NTG, -NTR

A wide range of LCD digital panel meters with a low profile module conforming to DIN standard panel sizes 24mm x 48mm and 36mm x 72mm.

trumeter



Voltage/Current/Frequency Panel Meters 4 Digit, Analog Bar Graph

The Trumeter APM series of programmable LCD panel meters features a 4-digit numeric display for precision and a 40 segment curved bargraph to show dynamic circuit conditions. Simply plug the meter into your PC via USB and use the free software to alter key parameters such as the scale of the bar graph, alarm set points and the background colour of the meter face.

From only
£42.31

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Only
£43.48

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From only
£27.90

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DIN Rail Power Supplies

TDK-Lambda



DPP Series DIN Rail Power Supplies

Each model can operate worldwide with a broad range of AC inputs from 85 to 264V AC without the need for pre-selecting the AC input range. In addition, these units will operate from a DC input ranging from 90 to 375V DC.

From only
£24.56

Order code 51-4648

TRACO POWER



TCL Series DIN Rail Power Supplies

DIN-Rail power supplies with an excellent price/performance ratio. With a tightly regulated output voltage and high immunity against electrical disturbances on the mains they provide a reliable power source for sensitive loads in industrial process controls, machine tools and other equipment exposed to challenging industrial environments.

From only
£35.84

Order code 51-5835

COTEK



DIN Rail Power Supplies 10-100W 1-Phase

These DIN rail power supplies measure just 90mm in height, yet offer up to 100W and have been designed to save space on a DIN rail. Offering a true DC OK signal output, the miniature power supplies have been manufactured to a high standard with high efficiency, high reliability and long life, while equipped with short circuit, overload, over voltage and brown-out protection.

From only
£15.43

Order code 59-1915



Elektro-Automatik



EA-PS 8000SM DIN Rail Power Supplies 12/24/48V DC

These EA-PS 8000SM DIN rail power supplies from EA Elektro-Automatik are powerful rail mount supplies with a compact design, developed for heavy-duty industrial applications.

From only
£114.24

Order code 54-7672

PHENIX CONTACT



QUINT-PS DIN Rail Power Supplies 24/48V DC 20/40A 960W

A range of PSU's from the Quint power supply series. Circuit breakers magnetically and therefore quickly trip at six times the nominal current, for selective and therefore cost-effective system protection.

From only
£344.00

Order code 59-2763

PULS



QS/QT Dimension DIN Rail Power Supplies - 12/48V DC 3.4-40A 120-960W

A range of power supplies from PULS are both compact and highly efficient, achieved through synchronous rectification and other groundbreaking design elements.

From only
£87.05

Order code 59-2662

DIN Rail Terminals

entrelec

Earth Terminal



From only
£1.93

Order code 28-0344

connectwell

...The Right Connection

Din rail spring clamp 4mm ground terminal

A screwless spring clamp ground terminal block. The spring clamp is operated by using a screw driver to provide an access to wire through the opening in the Spring clamp.



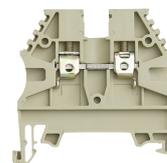
From only
£1.79

Order code 28-5410

IMO

Feed through single deck DIN rail terminals

A wide range of ER type terminals that have been manufactured from thermoplastic raw materials. Beige is the main colour, 6 different colours give users chance for grouping.



From only
£0.421

Order code 28-4053

Elmex

Earthing Terminals

Earth terminal with the same dimensions as standards terminal blocks.



From only
£1.22

Order code 28-0325

Enclosures



PM 129 LED Digital Panel Meter

The Voltcraft LED Digital Panel Meter is suitable for many applications. With the help of series resistors, shunts, or simple circuit applications you can extend the 200mV measurement range according to your wishes.

Only **£9.35**
Order code 51-5159



CRN Steel enclosures

These metal enclosures have been manufactured from a continuous length of sheet steel double folded at the front, with the back welded to the frame. Both are externally and internally protected with polyester epoxy resin grey textured paint to RAL-7032.

From only **£33.68**
Order code 28-3202



IP65 Polycarbonate Enclosures

A range of IP 65 junction boxes in polycarbonate. Ideal for outdoor harsh environment applications.

From only **£12.36**
Order code 28-3760



BRES Plain Door Wall Mounted Enclosure

A range of enclosures made from reinforced polyester with 30% glass fibre which gives high resistance against impact together with being lighter than steel enclosures but giving the same mechanical resistance. They are particularly suitable for mounting electrical or electronic equipment in aggressive environments where polyester offers the best quality and a longer life span.

From only **£69.53**
Order code 28-3268



ARCA IEC Polycarbonate Enclosures

A range of grey enclosures and covers from the FIBOX ARCA series, supplied with cabinet base, door and PUR gasket, mounting plate, screws for mounting plate and 3mm double bit lock(s) with key.

From only **£43.40**
Order code 30-2341



DIN Mounting Rail, Galvanised 2m Lengths

A range of HellermannTyton DELTA Mounting Rail that has been manufactured from cold rolled steel. They have an excellent dimensional accuracy and correspond to all common DIN standards. This complete range makes any kind of attachment possible. The mounting rails are available with and without mounting holes.

From only **£2.62**
Order code 49-7946



DIN Rail Power Supplies PFC 1-Phase 5-24V DC

A range of single-phase switched mode DIN rail power supplies, belonging to Idec's PS5R Standard series.

The supplies have been designed with a host of rich features, including the wide input range, which can easily integrate into industrial applications all over the world.

From only **£28.17**
Order code 63-1870



DPS Series AC/DC DIN Rail Power Supplies

A range of DIN rail mount power supplies (PSU) designed especially for the industrial automation markets. Manufactured by IMO these products offer a wide range of power and voltages for all low power DC devices commonly used in automated machinery.

From only **£25.57**
Order code 28-4109



DIN Rail Power Supplies, 12V and 24V, PSU300S, PSU100S

Siemens SITOP Smart DIN Rail Power Supplies meet the highest requirements for functionality, e.g. for use in complex plants and machines. The wide-range input enables connection to any system in the world and reliably guarantees a high level of safety even in the event of large voltage fluctuations.

From only **£67.58**
Order code 55-8241



DIN Rail Power Supplies Single Phase 24VDC, PC 0124 Series

A range of Block Single Phase, Primary Switched Mode DIN Rail Power Supplies that combines the basic functionality of an economic switched mode power supply with key additional features to ensure high system availability.

From only **£62.14**
Order code 59-2545



Evolution DIN Rail Power Supplies

A range of Murr Elektronik 3-phase Evolution Din Rail Power Supplies from the Evolution Series. The power supplies are compact, powerful, efficient and extremely reliable in a large number of applications. These power supply units continuously run as a 2-phase operation so they are always prepared if one phase fails.

From only **£130.82**
Order code 63-0425



DIN Rail Power Supplies

Single Phase Dehner Elektronik DIN Rail Mount Power Supplies. Offering a reliable power source, are short circuit protected with high efficiency and low ripple and are suitable for use with most sensors, electromechanical relays, contactors, solid state relays, timers, thermal-regulators, PLC's, controllers, DC motors, solenoids, displays and other types of custom electronics.

From only **£21.32**
Order code 59-1980

Control Stations



From only **£19.36**
Order code 78-2459

CSC1-60 E-Stop Box, Key Release, Plastic Switch Body, Red Actuator

This CamdenBoss E-Stop box is from the CSC1 range. The assembled E-Stop is supplied in a plastic body with a red actuator. The E-Stop switch, requires the user to insert a key in order to reset the switch and resume operation.



Registered Design
From only **£7.86**
Order code 78-2110

Single Stop/Start Push Buttons 22mm

These non-illuminated push button control stations feature a flush head. The contact blocks are 1x N.O. and 1x N.C. These unique and robust sealed control stations, has been specially designed and manufactured for use in the electrical and electronic engineering markets.



Only **£33.50**
Order code 28-3908

Start/Stop Station - 1NO+1NC Pushbutton

A plastic pushbutton station that has been robustly constructed. It is suitable for indoor or outdoor use and is IP65 protected. The pushbutton station is supplied with actuator, contact blocks and legend plate and fully assembled.

Timers & Controllers



Modular Timer 12 Functions 0.1s - 100h 12-240VAC/DC SPCO
The GIC 1CMDT0 is a multifunction electronic timer with 10 different non signal and signal based modes. It has a wide voltage range for both AC and DC. It is a low powered consumption device with LED indications for power and relay status.

From only **£14.18**
Order code **28-3930**



Finder 80 Series 16A Modular Timer
This high current multivoltage modular timer is designed for 35mm DIN rail mounting.

Only **£27.30**
Order code **48-0770**



Digital Thermostat Temperature Controller
Depending on the version, these thermostats can be used with a cooling function (ETC-100+) or with a cooling or heating function (ETC-200+). Suitable for all kinds of high temperature cold storage, direct-cooling cabinet and high temperature refrigerating equipment.

From only **£20.81**
Order code **51-6726**



CT Range Electronic Timers
ABB's CT range of electronic timers has been used in applications worldwide, proving its excellent functionality in daily use even under the toughest conditions. These three ranges of electronic timers provide timing functions for all applications.

From only **£28.49**
Order code **28-3698**



DIN Rail Multi-Functional Timer Relay
The Conrad CMFR-66 is a DIN Rail Multi-functional Timer Relay with 6 time functions and 6 time ranges. This versatile timer is ideal for many applications.

Only **£17.90**
Order code **52-0985**



Panel Mount ETC Series PID Temperature Controllers
A range of panel mounting PID temperature controllers with a choice of selectable control outputs including relay, alarm and SSR. There are inputs for a range of Pt100 temperature sensor types. Each unit has 2x 4-digit LED displays and parameter control is set via front panel keys.

From only **£86.12**
Order code **63-5588**



DTR-20 Astronomic Timer 190 - 260 V AC 2 16A changer
An astronomic timer ideal for automatic control, for example, lighting systems at sunrise and sunset by selecting pre-programmed geographic data from cities, direct input of geographical data or for use in 24 hour mode.

Only **£72.42**
Order code **51-9162**



D1004 Digital Temperature Controller
The FOX D1004 is a Digital Temperature Controller is an easy-to-use and extremely reliable installation device. The voltage-free relay outputs (max. 250V/3A) enable use with mobile or stationary cooling and heating devices.

Only **£38.50**
Order code **52-0997**



Compact Controller with Timer and Ramp Function
The control series consists of three configurable, universally usable compact controllers in different DIN formats for controlling temperature, pressure and other process variables. The main application areas are heating cabinets, tempering and cooling, drying and freezing equipment, laboratory ovens, and sterilizers in the food, plastics and packaging industries.

From only **£177.69**
Order code **51-6917**



Single Channel 16A Digital Timeswitch
The Timeguard TR611top2 Single Channel 16A Digital Timeswitch shares all the features and benefits of the TR 610 top2 (order code 23-9303) but with 84 memory locations. It also has its programmes stored in EEPROM for highest operational security. A 35mm (2 module) wide digital 24 hour/7 day 16A timeswitch with preset UK time and automatic summer/winter changeover.

From only **£98.26**
Order code **23-9304**



Multi-function Programmable DIN Rail Time Relay
These Trumeter Digital Time Relays are versatile and easy to program. They offer 8 or 18 Operating Modes that are easily configured on the 3 digit LCD display. The Relays have a timing range of 0.1 second to 999 hours to suit all applications, and a clear indication of the changeover relay status via the front panel LED.

From only **£13.80**
Order code **48-0844**



- Fuseholders
- Quick Blow Fuses
- Thermal Fuses
- Time Delay Fuses
- PTC Fuses
- Temperature Switches



For full details and pricing visit www.rapidonline.com

Isolator Switches



IP65 2-Pole and 4-Pole Isolator Switches
A range of 2-pole and 4-pole isolator switches from Techna offering IP65 moisture protection.

From only **£8.09**
Order code **28-5250**



AC Rotary Enclosed Isolator IP65
The SCL IS rotary enclosed isolators are designed so that in the OFF position they are padlockable and the interlocked cover is removable. They have captive retained cover screws. We also supply the SCL IC4100 enclosed change over switch.

From only **£8.45**
Order code **28-0541**



4-pole Isolator
The 69 series of isolators are available for 20 to 80A in 3 and 4-pole versions.

From only **£23.45**
Order code **28-4104**

Programmable Logic Controllers

IMO

From only
£387.59
Order code 28-3980

i3 Intelligent Control Station, i3A, i3B, i3CM

A wide range of IMO i3 Intelligent Control Stations that will reduce equipment costs and build time by integrating PLC, HMI and Openbus communications technology into a single, easy to mount unit.

These Control Stations are available in three Screen Options; the i3A, i3B and i3CM (see www.rapidonline.com for full details).

With a combination of Digital and Analogue I/O, including Remote I/O, and integrating T/C and PT100 inputs, these i3 controllers are ideal for both process control and factory automation applications; especially as they are backed by IMO's unique 3-year warranty.



Schneider Electric

Only
£236.47
Order code 57-8430

VJDSTKSTOSR2 Zelio HMISTO Starter Kit

his Zelio Logic PLC starter kit contains everything required to serve as an introduction to intelligent control in modern automation. The kit consists of a Magelis operator terminal, a Zelio Logic smart relay module (see 57-8123), configuration and programming software, USB download cable, connecting cable and power supply.

SIEMENS

From only
£157.56
Order code 55-6100

Siemens LOGO! Starter Kit, 12/24RC, 230RC, TD Starter Kit 12/24V

A range of Siemens LOGO! Starter Kits, each individually equipped to meet your needs. Use these affordable complete packages to learn more about the advantages and possibilities of the logic module in a quick and easy manner.

LOGO! has been successfully used in the industry and trade for many years and solves switching and control tasks in a convenient and cost efficient manner. It now offers even more uses with the basic devices OBA6 and OBA7 with the integrated Ethernet interface.



Crouzet

Only
£157.79
Order code 49-6419

Millenium 3 Starter Kits CD12 R, CD20 R and XD26 R

A range of Crouzet Millenium 3 Starter Kits containing everything you need in one package. These Logic controllers are used for automating small devices running between 10 and 50 I/O. The Millenium 3 is the latest generation of micro-PLCs. It is easy to program (Ladder programming or using function blocks/Grafset SFC), and offers communication capabilities (via modem or network, with web supervision option) and has a wide range of accessories (display units, touch panels, sensors, power supplies).

These products are used in applications such as heating/air conditioning, access control, heat pumps, water and air treatment, waste treatment, lifting and handling, medical equipment and pump management.

FLIR

C2 Compact Thermal Imaging System

The FLIR C2 is the world's first full-featured, Pocket Sized Thermal Camera designed especially for building applications. Keep it on you so you're ready anytime to find and show hidden heat patterns that point out energy waste, structural defects, plumbing clogs, HVAC issues, and other problems.

The slim, light profile fits comfortably in any work pocket so you can always keep your C2 at your side and never miss an opportunity to uncover invisible building issues, show them to customers, and offer helpful solutions. Use it as a non-destructive assessment tool and a reliable way to verify the success of completed repairs.

The C2's 4800-pixel resolution, high sensitivity detector captures and displays subtle thermal patterns and small temperature differences useful in building applications. And a generous 45° field-of-view frames in more of the scene the way pros need to see it.

The C2 features FLIR's unique MSX® that adds key details from the onboard visible light camera to the entire infrared image in real time. The result: an all-in-one, undiluted thermal picture with visible light features that lets you instantly recognize where the problematic heat pattern is.



Only
£518.00
Order code 85-3554

MSX® is real-time whether watching the camera's LCD or streaming video over USB.

The C2 JPEG images store 4,800 individual measurements that can be post analyzed using FLIR Tools software that is included with the camera. You can analyze, change colour palettes and access both thermal and visible imagery to create convincing reports.

- What's in the Box?**
FLIR C2 thermal camera
Battery (inside camera)
Lanyard
Power supply/charger with EU, UK, US, C1 and Australian plugs
Printed Getting Started Guide
USB memory stick with documentation
USB cable

TG165 Spot Thermal Camera -25 to +380°C

The FLIR TG165 Imaging IR Thermometer is equipped with a thermal imaging camera allowing you to see issues that would be time consuming to find using a spot IR thermometer. FLIR's exclusive Lepton™ micro thermal camera provides a clear image so that you can quickly identify temperature differences in the work area. Place the on-screen cross hair over the point of interest, pull the trigger and the TG165 captures both the spot temperature and the thermal image for documentation. The thermometer has a simple menu system for easy function selection making it useable without special training. Its twin laser pointers gives this instrument even greater accuracy. It is equipped with a USB socket for fast downloading of data and has a micro-SD card slot. Other features include a tripod mount, micro Li-Ion rechargeable battery, 4x preset emissivity levels plus custom emissivity adjustment. The instrument has CE / CB / FCC / FDA certifications and is drop tested to 2m (6.5ft). Supplied with a lanyard, USB cable, international charger (US, UK, EU, AU, CN), 8Gbyte micro-SD card and technical documentation.

- 24:1 spot size ratio for added safety
- Twin laser pointers for accuracy
- Rugged construction to survive in toolbags
- 80 x 60 pixel thermal image
- 176 x 220 TFT screen
- Measurement range -25 to +380°C (-13°F to 716°F)
- 186 x 55 x 94mm (7.3 x 2.2 x 3.7in)
- Manufacturers part no. TG165



Only
£296.00
Order code 85-3552

For technical specifications visit www.rapidonline.com



Pan Head Pozidriv Screws

A range of bright zinc plated, Pozidriv cross head, coarse threaded steel screws.

- Steel grade 4.8
- Bright zinc plated and clear passivated
- Manufactured to **BS4183**
- Supplied in **packs of 100**



Price per pack of 100					
Type	Length (mm)	Order code	1+	10+	50+
M2	10	33-2210	0.98	0.84	0.678
M2.5	6	33-2200	0.895	0.809	0.722
	10	33-2202	1.05	0.872	0.755
	12	33-2205	0.98	0.819	0.732
	20	33-2207	1.03	0.851	0.765
M3	6	33-2300	0.872	0.765	0.646
	10	33-2305	0.98	0.819	0.712
	12	33-2310	0.98	0.819	0.712
	16	33-2315	0.872	0.765	0.646
	20	33-2320	1.32	1.20	1.09
	25	33-2325	1.65	1.53	1.32
M4	6	33-2410	1.65	1.53	1.32
	10	33-2415	1.32	1.16	0.98
	12	33-2420	1.21	0.97	0.819
	16	33-2425	1.23	0.99	0.851
	20	33-2430	1.28	1.02	0.883
	25	33-2435	1.61	1.45	1.23
	30	33-2440	1.84	1.51	1.32
M5	6	33-2445	1.90	1.56	1.33
	10	33-2450	2.15	1.77	1.47
	12	33-2455	1.79	1.47	1.22
	16	33-2460	1.83	1.49	1.25
	20	33-2465	2.31	1.92	1.62
	25	33-2470	3.11	2.50	2.13

Steel Nuts

A range of bright zinc plated coarse threaded steel full nuts.

- Nuts are manufactured in **BS3692 grade 8**
- Supplied in **packs of 100 or 1,000**



Type	Order code	1+	10+	25+
Packs of 100				
M2	33-1725	0.877	0.796	0.704
M2.5	33-1705	0.634	0.562	0.53
M3	33-1710	0.541	0.50	0.437
M4	33-1715	0.645	0.572	0.489
M5	33-1720	0.704	0.663	0.602
Packs of 1,000				
M2	33-1925	6.18	5.75	5.44
M2.5	33-1930	5.06	4.51	4.08
M3	33-1935	4.03	3.87	3.56
M4	33-1940	4.62	4.07	3.52
M5	33-1942	5.47	4.97	4.40

Steel Washers

A range of bright zinc plated washers, available in a variety of thread sizes.

- Plain washers to **BS4320** made from mild steel
- Supplied in **packs of 100 or 1,000**



Type	Order code	1+	10+	50+
Packs of 100				
M2	33-1750	0.604	0.497	0.43
M2.5	33-1755	0.635	0.56	0.527
M3	33-1760	0.539	0.497	0.43
M4	33-1765	0.43	0.399	0.355
M5	33-1770	0.765	0.646	0.539
Packs of 1,000				
M2	33-1943	4.45	4.03	3.33
M2.5	33-1945	5.06	4.29	
M3	33-1950	5.05	4.58	4.03
M4	33-1955	3.56	3.32	3.01
M5	33-1957	5.47	4.97	4.36

Steel Shakeproof Washers

A range of bright zinc plated shakeproof washers, available in a number of thread sizes.

- Shakeproof washers made from hardened steel
- Supplied in **packs of 100 or 1,000**



Type	Order code	1+	10+	50+
Packs of 100				
M3	33-1910	0.765	0.646	0.539
M4	33-1915	0.819	0.712	0.593
M5	33-1920	1.09	0.98	0.819
Packs of 1,000				
M3	33-1965	6.07	5.40	4.97
M4	33-1970	6.17	5.51	4.97
M5	33-1975	10.99	9.87	8.77



Precision ESD De-soldering tool

Tough metal bodied De-soldering tool with a capacity of 7.7cm³.

Order code **93-2596** Desoldering Tool **£14.95**

Automatic Wire Stripper

A heavy duty tool for stripping, cutting and crimping wire and flat and round cable. Automatically strips wires without adjustment.



Order code **85-0002** Automatic Wire Stripper **£13.67**

Set of 7 Precision Screwdriver Slotted/PH/TX

Ergonomically designed handles with hollow rotating cap for ease of use and precise control. Blades manufactured from premium quality chrome vanadium/molybdenum steel for strength. Contains 6 double ended interchangeable bits - slotted 1.5, 2, 4, 4, PH000, PH00, PH0, PH1, TX05, TX06, TX07, TX08.



Order code **93-2332** Precision screwdriver set **£8.19**



PreciForce® Crimping Pliers

Knipex PreciForce® Crimping Pliers are the tools the specialists go to for daily crimping applications. They work precisely and reliably and are light and comfortable to use.



Order code **50-4495** Type 97 52 37 From only **£59.42**



Electronic Super-Knips® ESD

Knipex Electronic Super-Knips® ESD are precision pliers with electrically discharging handles designed for ultra fine cutting work, particularly in computer systems. Available in surgical stainless steel or high-grade special tool steel versions, with or without lead catchers.

Order code **50-9280** Stainless steel From only **£15.34**



60/40 Tin/Lead Flux-Cored Solder Wire

A high grade solder wire containing 60% tin and 40% lead, available in a wide variety of diameters and reel sizes.

- High grade 60/40 tin/lead alloy solder wire
- Melting temperature 190°C
- Recommended minimum bit temperature 300°C
- Rosin activated flux manufactured to **JISZ3283**

Please note: This product contains lead and rosin.

Reel size	Gauge	Approx. length	Order code	1+	5+	10+
100g	22SWG	35m	85-0592	3.95	3.59	3.39
500g	22SWG	175m	85-0595	16.95	15.95	14.95
500g	18SWG	61m	85-0610	16.45	15.45	14.45
2kg	18SWG	244m	85-0615	49.95	47.95	45.95

Lead-free Solder Wire

This high purity lead-free tin/copper solder is a cost-effective and versatile alternative to conventional lead solder and is suitable for all but the most demanding general purpose applications.

- Tin alloy with 0.7% copper
- Flux cored
- Melting point 227°C
- Available in 18SWG and 22SWG
- Supplied on **100g or 500g reels**

Gauge	Reel size	Order code	1+	5+	10+
18SWG	100g reel	85-1162	4.99	4.49	4.19
18SWG	500g reel	85-1164	21.95	19.95	18.95
22SWG	100g reel	85-1166	4.49	4.29	3.99
22SWG	500g reel	85-1168	22.95	20.95	19.95



3g Power Flex Gel Control

A gel superglue in an advanced dispensing bottle.



Order code **87-7206** 3g Superglue gel **£2.38**



Professional Quick-Change Ratchet Crimping Tool Set

A professional quality 4-piece crimping set consisting of a ratchet crimping plier and 3 sets of interchangeable jaws for different types of RJ type networking connectors.



Order code **86-4500** 4-piece crimping set **£39.99**

Professional Quick-Change Ratchet Crimping Tool Set

A professional quality 7-piece crimping set consisting of a ratchet crimping plier and 6 sets of interchangeable jaws for different types of crimp connectors.



Order code **86-4502** 7-piece crimping set **£59.99**

For full details on these products please visit www.rapidonline.com

WSD81i 80W Digital Soldering Station

Weller®

This Weller WSD 81i 80W Soldering Station has all the features of its predecessor, the Weller WSD 81, plus extra in-built functionality which means any presets can be made without the need for a separate Weller WCB 2 calibration box.

The WSD 81i station is comprised of a PUD 81i power supply and a WSP 80, 80W temperature controlled soldering iron, with KH 18 stand.

The stand accommodates a wet, sponge tip cleaning pad.

- Temperature accuracy $\pm 2^{\circ}\text{C}$
- Digitally controlled electronics
- Temperature range 50 to 450°C
- Push-button temperature control
- 3-position digital LED display
- Built-in CALIBRATION, LOCK OUT and OFFSET functions
- Antistatic housing
- Dimensions: 166 x 115 x 101mm (L x W x H)
- **Weller type WSD81i**



Order code: 85-5864
£264.99

Please see order code 85-5325 for further details of the WSP 80 soldering iron. A wide range of suitable Weller LT Series soldering tips are available.

E-Mech Special Edition

LED illumination

Flexible third hand

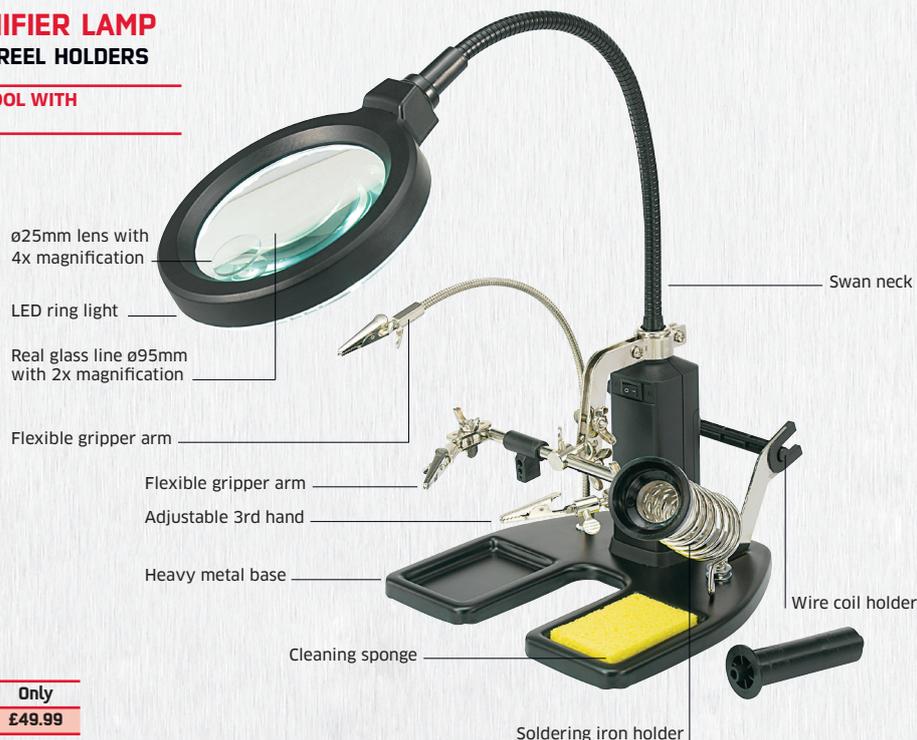
Swan neck table magnifying lamp



HELPING HAND LED MAGNIFIER LAMP INCLUDING SOLDERING IRON AND REEL HOLDERS

VERSATILE, COMBINED WORKSTATION TOOL WITH A GOOSENECK MAGNIFIER LAMP

- Flexible third hand
- LED illumination
- Swan neck table magnifying lamp
- Holder for soldering iron
- Large lens with 2x magnification
- Small embedded lens for 4x magnification of extremely small parts
- Ring light with 16 LEDs and gooseneck for optimal lighting
- Adjustable third hand with two alligator clips
- Additional flexible 250mm gripping arm with alligator clip
- Soldering iron holder
- Wire reel holder
- Cleaning sponge
- Easily adjustable hinge
- Heavy metal stand
- Supplied complete with mains adaptor, 10mm and 19mm wire reel spindle, cleaning sponge and lens cap



Type	Order code	Only
Helping Hand Lamp	51-594	£49.99

FREE DELIVERY ON ORDERS OVER £30 (exclusive of VAT)



TDK-Lambda

BRITAIN'S LARGEST DESIGNER AND MANUFACTURER
of both standard and configurable AC-DC and DC-DC power supplies

The TDK-Lambda product range includes:

- AC-DC power supplies
- DC-DC converters
- Programmable (Laboratory) Power supplies
- EMC/EMI filters

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