Molyneux
TECHNOLOGIES

SWITCHING & MONITORING

Since 1969

Contents

All of our products can be supplied in Stainless Steel if your application requires

Conveyor Belt Alignment & Tear Detectors

GR38

GR38 This Conveyor Belt Monitor detects belt misalignment and torn belts via three separate switches mounted from a framework fitted under the Conveyor Belt from the structure.

The unit is quickly and easily installed and accommodates belt widths from 900mm to 1200mm. It is supplied with three sets of change over contacts (one per probe). The belt alignment sensors can be fitted with an optional time delay mechanism which is adjustable between 0-30 seconds.

All steel work is stove enamelled with exposed metal parts bright zinc plated. 2 x M20 brass cable glands are provided.

GR38	Belt alignment and torn belt
GR38/TD and torn belt	Belt alignment with time delay
GR38/S	Torn belt only with frame
GR38/B	Belt alignment only with frame
GR38/B/TD	Belt alignment only with time delay time and frame
CONTACTS	1 set of change over per switch – 240VAC 10 Amps

GR39 This switch detects conveyor belt misalignments and torn belts and fits directly on the structure or brackets from it. It comprises of two identical units, one positioned either side of the conveyor belt, joined by two wires running beneath the belt to follow its contour which will detect either belt tears or trailing edges.

These wires are adjusted by galvanised shackles to suit the belt width then upon operation the wire is snagged and the plug pulled out operating a change over switch. The plug is simply re-inserted to reset the unit.

Belt misalignments are registered by either of the two nylon 66 probes mounted on plastic coated 360° flexible springs which when moved release a set of change over contacts.

Each side is identical eliminating the need to carry stock of left/right handed versions, and for safety, installation is carried out at the side of the conveyor belt, not underneath it.

GR39

GR39	Belt alignment/torn belt detector
GR39/SP1 complete	Spare rope and plug assembly
CONTACTS	1 set of change over contacts each side – 240VAC 10 Amps

SW510 This unit is designed to be positioned at right angles to the conveyor belt travel and is mounted directly on to the structure or a bracket from the structure.

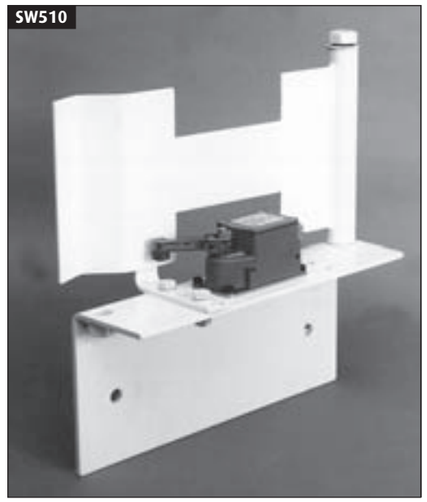
The unit is fully reversible, eliminating the need to order or hold stock of left/right handed versions.

Its robust design in mild steel enables it to be used in the harshest mining environment without the need for regular maintenance.

Any belt misalignment moves the plate and operates the IP65 limit switch which can easily be set to momentary or latching contacts.

SW510	Belt alignment switch
CONTACTS	Single pole normally open – 10 Amps

SW510



SW151

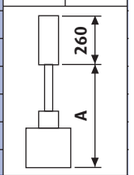
SW151 This unit is positioned next to the conveyor belt and is mounted directly on to the conveyor structure or a bracket from the structure.

The probe comprises of a nylon 66 paddle mounted on a plastic coated 360° flexible spring arranged to register misalignment.

It can be fitted with a time delay switch which is adjustable between 0-30 seconds and comes with 3 different spring lengths to suit different structures.

Mounted in an IP54 stove enamelled enclosure with all exposed parts bright zinc plated, and supplied with 2 x M20 brass SWA cable glands.

		MODEL	DIM 'A'
SW151/6	150mm probe	6	250
SW151/	150mm probe with	9	325
6/TD	variable time delay	18	550
SW151/9	225mm probe		
SW151/	225mm probe with		
9/TD	variable time delay		
SW151/18	450mm probe		
SW151/	450mm probe with		
18/TD	variable time delay		



CONTACTS	1 set of change over – 240VAC 10 Amps Time delay – 5 Amps

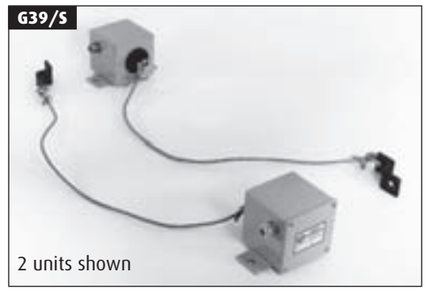
GR39/S The unit fits directly on to the conveyor structure or bracket-work from the structure and runs under the conveyor belt.

The rope is then adjusted with the galvanised shackles to suit the belt width and profile with the pullout plug fixed in position.

Upon a torn-belt or a belt trailing edge the rope is caught, pulling out the plug thus operating a switch which has 1 set of change over contacts. The plug is simply re-inserted to reset the unit.

GR39/S	Torn belt switch
GR39/SP1 complete	Spare rope and plug assembly
CONTACTS	1 set of change over per switch – 240VAC 10 Amps

G39/S



2 units shown

Conveyor Control Relay Panel

SW315 The conveyor control panel on pressing the start button will set the first conveyor in the sequence running then, after a pre-set time which allows the conveyor to run up to speed, a set of contacts will start the next conveyor in the sequence if required.

If a conveyor should slip, stop or lose sequence, the system will trip. Likewise, if a blocked chute, belt alignment, torn belt or an emergency pullkey is activated the system will shut down.

In addition to the local stop/starts, the facilities exist for the addition of remote switches together with conveyor running and conveyor stopped indication. Any facility not required can be simply strapped out.

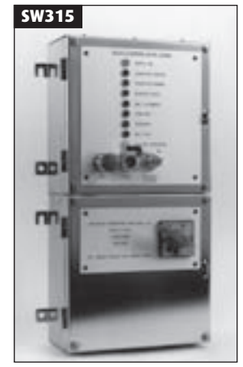
The enclosure has two hinged and lockable doors with a door interlocking isolator, fuses and all terminals in the bottom half and the stop/start buttons, sequence override key switch and all indicators along with corresponding relays and timers in the upper half.

The unit can be supplied complete with all the ancillary switches and detectors required as shown in this catalogue or it can be used with existing monitoring/protection devices. It can be supplied to work from most incoming voltages.

It is supplied in an IP67 stainless steel 600 x 300 x 150 enclosure with wall mounting brackets, external earthing lugs and full sized top and bottom plates.

SW315	Conveyor control relay panel

SW315

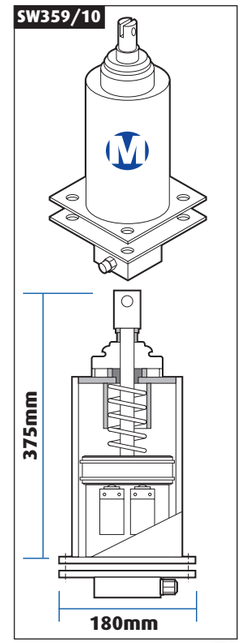


Cage Slack Rope Detector Switch

SW359/10 During normal operation the piston is pulled upwards and held in position by an internal compression spring against a mechanical stop which prevents over travel and spring deformation. If the rope or chain secured to the piston then becomes slack, the piston moves against the compression spring and operates two mechanical IP67 safety switches which each have one set of change over contacts. The switches are protected by a mechanical stop to prevent damage. Cable entry is via a junction box secured to a base plate which is mounted inside the cage on the roof, joining the two halves. The complete unit is manufactured from stainless steel to prevent corrosion. The shaft entry at the top of the unit is sealed with a flexible rubber boot that prevents any ingress of dirt or water. It comes with all necessary chains, rigging screws and shackles.

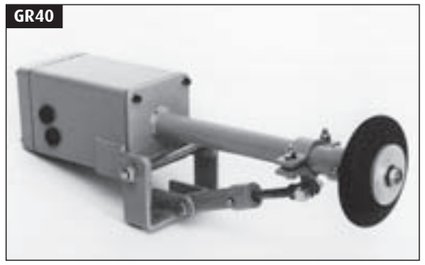
SW359/10	Cage slack rope switch

SW359/10



Conveyor Belt Slip/ Sequence Detectors

GR40



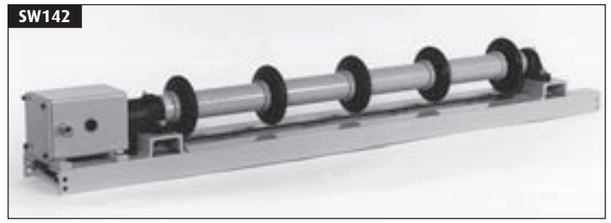
This range of sequence/slip switches is for fitting beneath the conveyor belt to enable a conveyor to run up to speed before starting the next one in line and thus ensuring all the conveyors in the sequence are running before commencement of loading. It can also be used for detecting belt slip.

GR40 The single roller version is fitted with a spring/anti-bounce damper to prevent and dampen bounce transmitted from belt and help prevent accidental tripping. It is supplied with the same speed range and contacts as the full roller version.

SW142 The full roller version is available in widths of 900, 1050 and 1200mm all having a standard speed range from 50 - 1000 r.p.m. with either 1 x normally open contact OR 1 x normally closed contact in either direction.

GR40A	'Single' roller sequence/slip switch

SW142

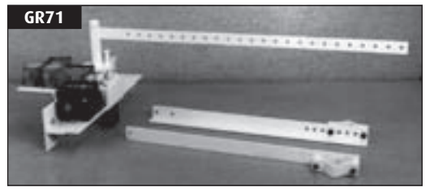


SW142/A/36	900mm Full roller, single switch
SW142/A/42	1050mm Full roller, single switch
SW142/A/48	1200mm Full roller, single switch

Conveyor Belt Men/ Material Safety Gates

GR71 A range of safety gates for use across man riding conveyors with nine switch variations available as standard. The units are supplied with legs for mounting on the structure giving height adjustment from 150mm to 750mm and with fixed or raising arms, which are drilled to attach the gate, This may be a reflective gate or simply made from conveyor belting. Manufactured from mild steel and finished in white, it is available with flameproof and/or intrinsically safe options to cope with most requirements with each switch having the option of latching or non latching contacts.

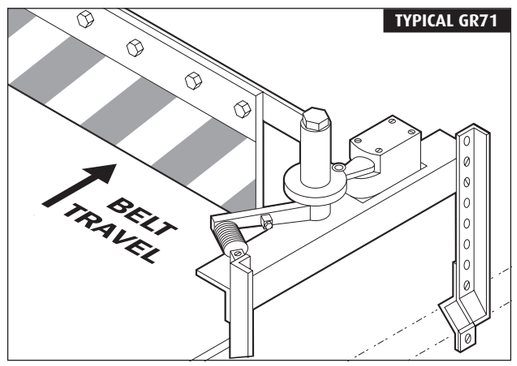
GR71



GR71/1	Safety gate with 1 I.S. switch
GR71/2	Safety gate with 2 I.S. switches
GR71/3	Safety gate with 3 I.S. switches
GR71/1/FLP	Safety gate with 1 I.S. and 1 FLP switches
GR71/2/FLP	Safety gate with 2 I.S. and 1 FLP switches
GR71/1/2FLP	Safety gate with 1 I.S. and 2 FLP switches
GR71/2/RA	Safety gate with 2 I.S. switches and raising arm
GR71/3/RA	Safety gate with 3 I.S. switches and raising arm
GR71/1/ FLP/RA	Safety gate with 1 I.S. and 1 FLP switch and raising arm
GR71/RG	Reflective safety gate for use with above

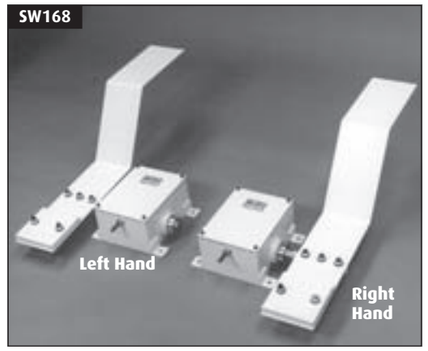
	IS Switch – Single Pole N/O	
	FLP Switch – 1 N/O – 1 N/C	
Contact Rating IS Switch	Volts AC 125	AMPS 5
Contact Rating FLP Switch	Volts AC 220	AMPS 10

TYPICAL GR71



Conveyor Belt Spillage Detectors

SW168



SW168 This is a compact and robust belt spillage switch which has an adjustable counter balance weight to alter the sensitivity of operation quickly and easily.

It can be mounted inside or outside the structure underneath the conveyor belt and is available in left and right variations.

The unit is manufactured from mild steel, that is stove enamelled and comes with a 20mm drilled and tapped gland entry, supplied with a brass SWA gland.

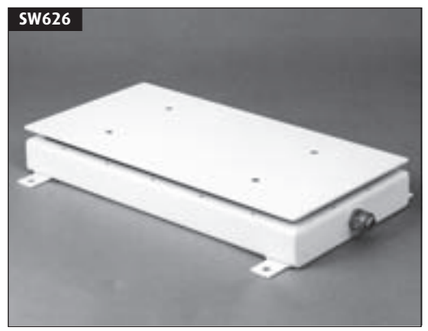
SW168/LH	Counter weight belt spillage switch
SW168/RH	Counter weight belt spillage switch
CONTACTS	1 set of change over per switch – 240VAC 10 Amps

Electronic Conveyor Belt Spillage Detectors

SW626 An intrinsically safe weight sensitive spillage detector with no moving parts. Operated from I.S. or other low voltage supplies, it can be mounted alongside or under a conveyor to detect spillage and has adjustable sensitivity over a wide range which is easily adjusted with a screwdriver.

SW626	Electronic belt spillage switch
CONTACTS	1 set of volt free contacts

SW626



Blocked Chute Detectors

SW129

SW129 A robust chain suspended blocked chute/material detector that has a variable time delay to prevent tripping of the loading conveyor for temporary blockages.

The probe is adjustable in length between 750mm - 1100mm. The unit is finished in stove enamel with galvanised suspension chains c/w fixings. One M20 brass SWA cable gland is fitted as standard.

SW129	Material/blocked chute detector
CONTACTS	1 normally open, 1 normally closed
RATING	440VAC 6 Amps
TIMER	0-60 secs variable time delay

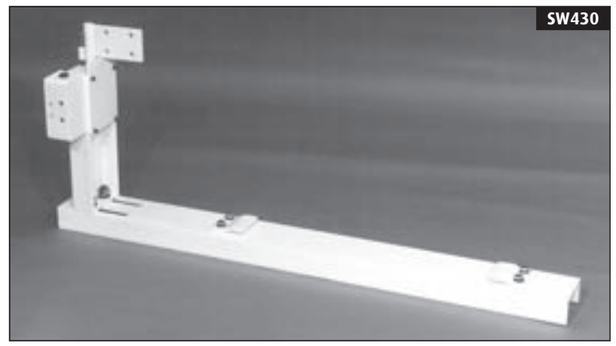
Ultimate/Penultimate Track Switch

SW430 An electro-mechanical safety switch for use on rail gauges from 520mm to 850mm that prevents haulages from passing their final limits and if operated it will lock-out until manually reset.

It has a wide range of adjustment via the two Rail Clamps and the Switch Post. Finished in stove enamel and is supplied with one brass M20 SWA cable gland as standard.

SW430	Ultimate/pre-ultimate track switch
CONTACTS	2 x change over, 250VAC 6 Amps

SW430



Cable Operated Track Points System

SW421

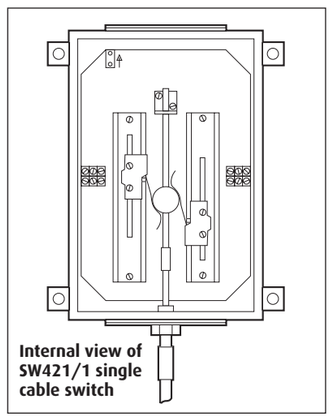
SW421 A cable operated track points switch for use where the environment does not permit the use of switches that mount directly into the web of rail (see SW422 range on page 7).

They come with a heavy duty 3 metre cable that transmits movements/loads with a minimum of friction loss and minimal backlash. The cable will follow complex curves if required over long runs. The cable is unaffected by temperature changes or load variations and is maintenance free. It comes with a forked end fitting for fastening to the blade of a turnout, and can be supplied in other lengths if required.

The switches come housed in an enclosure which is normally mounted on the wall near to the turnout.

SW421/1/3m	Single cable track switch
SW421/2/3m	Double cable track switch
CONTACTS	1 x change over, either end of limit 240VAC 10 Amps

For specials state cable length required in metres



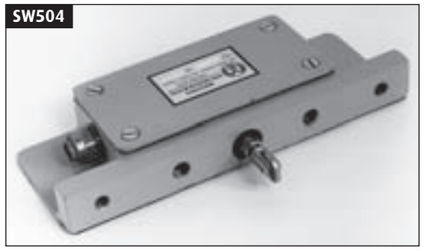
Internal view of SW421/1 single cable switch

Roller Proving Switch

SW504 This is a slimline roller proving switch measuring only 250 x 90 x 30mm for use on a range of applications including rail points, cage gates doors or ordinary doors/gates where space is limited. It can be mounted via its base or mounting lugs which extend from the switch body and can simply be altered to either vertical or horizontal roller. Its robust construction allows it to be used in the harshest environments. It is finished in stove enamel with stainless steel roller and shaft and has sealed micro-switches.

SW504	Roller type proving switch
CONTACTS	2 x change over, 240VAC 10 Amps

SW504



Track Points Switches

SW618 This is a rail mounted sleeper switch which can monitor each point tip independently directly from the drive pins which are connected to both moving rails through 13mm Ø holes in the rail flanges.

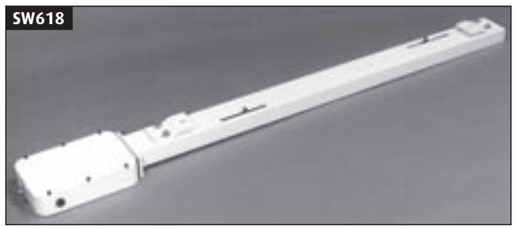
There are two change over switches per point, mounted so as to give simple adjustment over the full range of 145mm of allowable movement, giving open and closed indication.

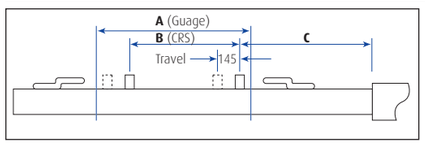
Supplied complete with two rail clamping brackets which also allow a small amount of adjustment. The whole unit is extremely robust and is finished in white with 3 x 20mm glands fitted in the switch box as standard.

Registered Design 2052678

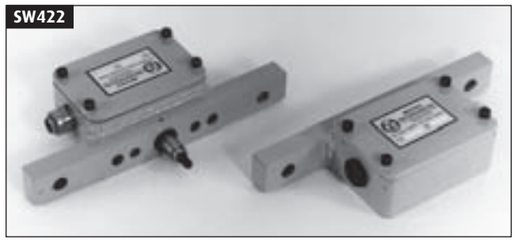
	Rail mounted sleeper switch
SW618/30	A=30″ B=565 or 640 C=280
SW618/30L	A=30″ B=565 or 640 C=430
SW618/36	A=36″ B=740 or 765 C=280

SW618





SW422



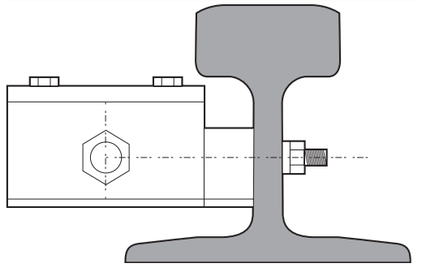
SW422 This is a track points switch that mounts in the web of the rail and will monitor the point blade position to within 2mm.

The switch housing is in mild steel with a stainless steel shaft which is sealed by means of a scraper and 'O' ring seal.

Inside is contained an easily accessible terminal block and 2 micro switches each having 1 x pair of change over contacts.

The switch is finished in stove enamel with one pair of M10 mounting holes at 60 centres, 1 pair of M12 at 95 centres and 1 pair of 13mm Ø holes at 204mm centres. It comes supplied with 2 x M20 brass SWA cable glands.

SW422/A/4 Track switch with 12mm travel



SW422/F	Track switch with 25mm travel
CONTACTS	2 sets of change over contacts
RATING	240VAC 3 Amps

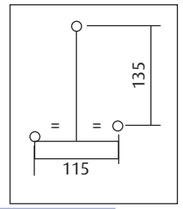
Signalling Key

SW602 This is a heavy duty steel signalling/rapper key switch operated by a removable triangular key and having one pair of change over contacts.

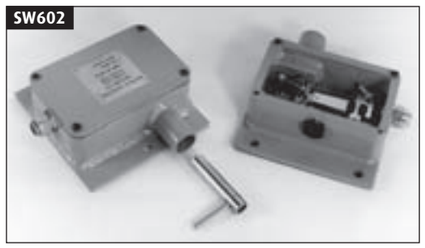
The contact mechanism is fitted with a mechanical stop to prevent over travel and damage during normal operation.

It is supplied with a 20mm brass gland and blanking plug which can be used in either the top or side entries into the switch body.

The removable triangular operating key provided with each switch helps prevent use by unauthorised personnel. There are three 11mm mounting holes in the base plate (as shown) and the unit has a stove enamelled finish.



SW602



SW602	Signalling key

Telephone Cable Reeling Drums

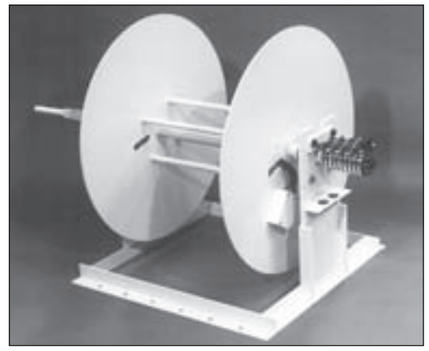
SW322 These robust units enable telephone cables to be safely stored and prevent accidental damage when not fully in use. They measure 800 high x 860 wide x 750mm diameter drums but can be adapted to virtually any dimensions to suit most applications.

The standard drum will take up to 40 way slip ring assembly and has silver graphite brushes wired to a terminal box fitted on the outside of the drum cheek.

It comes with a removable handle and can have an optional ratchet/anti-runback device fitted if so required.

SW322/A	Slip rings for 4 core cable
SW322/E	Slip rings for 6 core cable

SW322



Typical 4 way slip ring arrangement shown above

SW322/B	Slip rings for 8 core cable
SW322/C (1 each end)	Slip rings for 2 x 4 core
SW322/D (centre cheek)	Slip rings for 2 x 4 core

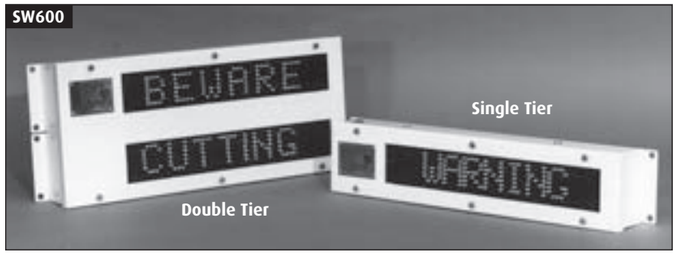
Intrinsically Safe LED Warning/Display Signs

These L.E.D. displays provide a range of illuminated signs that can be easily read from a distance. With a choice of fixed or alternating messages coloured in red, green or amber that can be set to flash or be permanently illuminated.

The displays come in single, double or triple tiers and can be single or double sided units. All units have a width of 565mm and a depth of 85mm. The height is 125, 250 or 375mm according to the number of tiers. The display unit can be mounted from two top mounting M8 bushes or M10 clearance holes in the mounting flanges. It is fully gasketed with a white stove enamelled finish and anti-glare darvic windows.

Each display unit has provision for top, bottom or rear cable entry via a 20mm diameter gland holes and is supplied with full installation details.

I.S. Certificate No. I.S.927033 class 1, British Coal Approved No 2238.



11100000 - MESSAGE-	**- COLOUR/S**	Single tier, single-sided, master
11200000 - MESSAGE-	**- COLOUR/S**	Single tier, single-sided, slave
12100000 - MESSAGE-	**- COLOUR/S**	Single tier, double-sided, master
12200000 - MESSAGE-	**- COLOUR/S**	Single tier, double-sided, slave
21100000 - MESSAGE-	**- COLOUR/S**	Double tier, single-sided, master
21200000 - MESSAGE-	**- COLOUR/S**	Double tier, single-sided, slave
22100000 - MESSAGE-	**- COLOUR/S**	Double tier, double-sided, master
22200000 - MESSAGE-	**- COLOUR/S**	Double tier, double-sided, slave
31100000 - MESSAGE-	**- COLOUR/S**	Triple tier, single-sided, master
31200000 - MESSAGE-	**- COLOUR/S**	Triple tier, single-sided, slave
32100000 - MESSAGE-	**- COLOUR/S**	Triple tier, double-sided, master

N.B. 11 characters maximum per tier.

Intrinsically Safe Points Protection System

This series of indicators is for use in conjunction with points switches to provide a complete protection system for railway junctions.

It provides clear unambiguous displays for each aspect of a junction, being available in both single and double sided forms.

The display shows a green arrow corresponding to the direction of the points, or a red cross when the points are split, or when there is a fault and may be individually set to give flashing or steady indication as required.

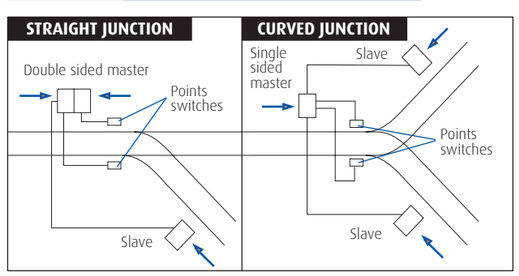
The system is certified intrinsically safe (cert. HSE (M) I.S. 877375 Class 1) and has British Coal Approval (Electrical Acceptance No.1988/1) It may be operated from any certified supply between 7.5 and 12 volts D.C.

The use of double contact on the points switches allows the system to detect external cable and switch faults, and will show all red crosses in this event.

When used on rope haulage systems, a separate isolated output may be coupled to an engine house indicator allowing the operator to be certain that all points are correctly set before hauling commences.

This system is also fail safe, and will detect system faults and cable damage.

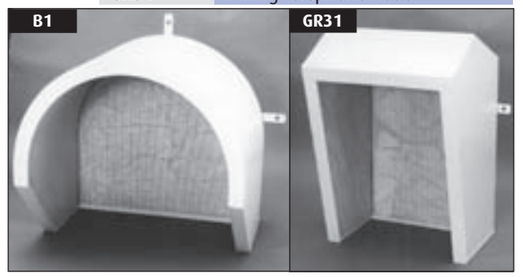
SW427	Certified 12 VDC power supply
SW501	L.E.D. single sided slave indicator
SW502	L.E.D. double sided master indicator
SW503	L.E.D. single sided master indicator
SW500	L.E.D. indicator mounting bracket



MISCELLANEOUS PRODUCTS

Heavy Duty Telephone Hoods

B1	Mining telephone hood
GR31	Mining telephone hood



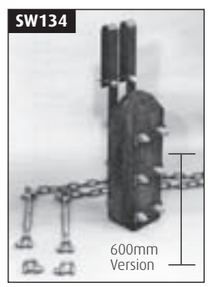
Universal Mounting Plate

SW316 A universal mounting plate manufactured from 10mm mild steel with 2 11mm x 70mm slots. It comes painted white with a zinc plated J-Bolt for fixing to 100-150mm girders.

SW316	Universal mounting plate

Shaft Cable Cleats

SW134 Manufactured from specially selected elmwood with all steelwork galvanised to BS729. The cleats are machined to exact



dimensions by our experienced craftsmen and then treated with creosote.

Three standard sizes are available in five designs dependant upon the cable size and type of mounting required (see recommendations table below).

A full comprehensive range of chains, cable cowls and mounting plates can be supplied. Please ask for a full list of catalogue sheets on any of the above.

600mm – Cables up to 50mm diameter
900mm – Cables up to 70mm diameter
1200mm – Cables up to 90mm diameter

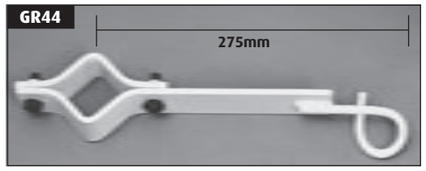
SW134	Shaft cable cleats

BRACKET/STEELWORK – TO YOUR DESIGN

Ask for a quotation

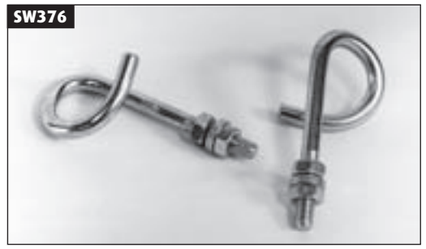
Conveyor Structure Pullwire Pigtail Bracket

(Made to suit most sizes)



GR44	50mm conveyor structure bracket

Threaded Pigtail Nuts and Washers



SW376/A	Large 4" threaded pigtail C/W nuts and washers, B.Z.P.
SW376/A	Small $1\frac{1}{2}$" threaded pigtail C/W nuts and washers, B.Z.P.

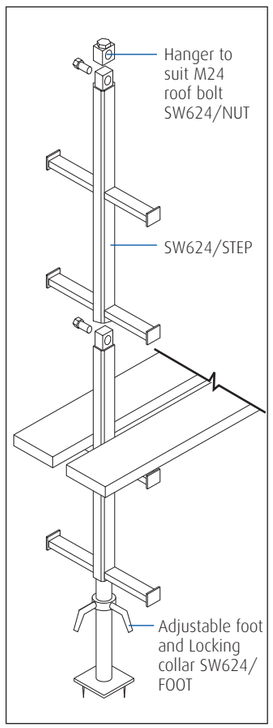
Roof Bolt Ladders

For use in pairs with planks to make a safe and portable platform or individually as a ladder.

Adjustable foot (SW624/FOOT) has spikes for positive location in soft ground.

The 750mm sections weigh approximately 5kg per section and bolt together to make the required length.

SW624/2LAD	Complete assembly, floor to roof range 1.5m (5' – 7'4")
SW624/3LAD	Complete assembly, floor to roof range 2.25m (5' – 9'10")
SW624/4LAD	Complete assembly, floor to roof range 3m (5' – 12'4")
SW624/5LAD	Complete assembly, floor to roof range 3.75m (5' – 14'6")
SPARE PART NUMBERS	
SW624/NUT	
SW624/STEP	
SW624/FOOT	



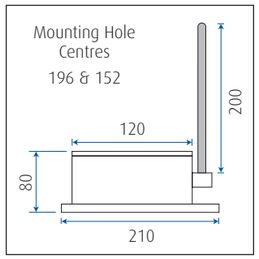
Lever Activated Switches

This is a bi-directional lever operated switch with a semi-flexible wire rope actuation lever.

SW218

It can be used in a wide variety of applications where the switch actuation load is from light to fast moving or aggressive contact.

Both directions can be latching or spring return lever with a choice of stayput, momentary or timed contacts which are rated at 240V AC 10AMP. One set of change over contacts being standard in each direction. The switch is finished in stove enamel and has 2 x 20mm brass glands. Some uses include positioning, zoning or just vehicle counting.

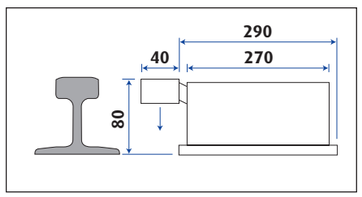


SW218/S	Lever activated switch with momentary contacts & spring return arm
SW218/H	Lever activated switch with stayput contacts & spring return arm
SW218/ST	Lever activated switch with timed contacts & spring return arm
SW533	Lever activated switch with stayput contacts & latching arm
CONTACTS	1 x change over each direction, 240VAC 10 Amps

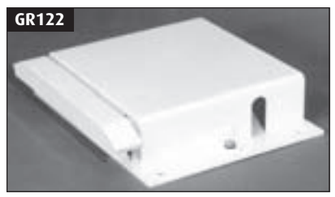
Treadle Operated Switches

GR122 A robust track switch suiting any gauge of rail, with positive action spring return. Designed to be operated by the Wheel Flange as the train runs by, it is difficult to operate accidentally by foot.

Manufactured from 3mm mild steel and finished in white, it is a robust switch for use in the harshest of environments and is mounted between the rails. It has one EACH normally open and normally closed contacts.



GR122



GR122	Treadle operated track switch
GR122/TD	Treadle operated track switch with time delay
Contacts	1, normally closed, 1 normally open
Rating	Volts AC 125 AMPS 5

Stop/Start Buttons

These heavy duty stop/start stations are manufactured in 5mm stove enamelled mild steel, with the principal components of the buttons made from chromium plated brass and are suited for use in the most adverse environments. Large multi-control stations can be made to order.

GR30	Stop lock push button station
GR36	Stop lock/start, push button station
Contacts	1 normally open, 1 normally closed
Rating	240VAC–8 Amps 110VAC–2 Amps

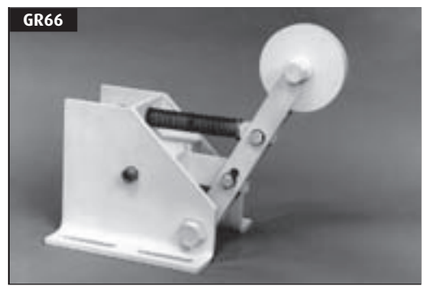
GR30

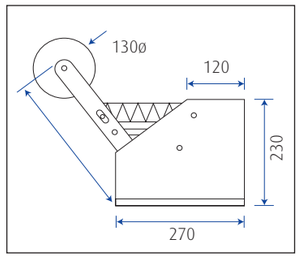
GR36

Heavy Duty Roller Switch

GR66 An over-travel switch with 2 IS safety switches to ensure that the contacts are always broken even in cases of contacts welding together, or spring failure, that can easily and quickly be set to latching (manual reset) or non-latching mode.

GR66





It is an extremely robust switch capable of withstanding use in the harshest of environments, as demonstrated by its original application as a cage overwind switch mounted in the headgear. It is finished in stove enamel and with two 20mm glands.

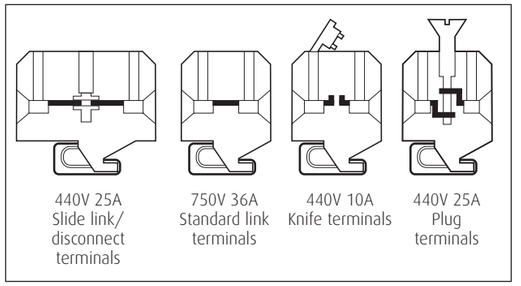
GR66	Overtravel limit switch
Contacts	2x change over. 240VAC 5 Amps

SW300/11

Junction Boxes

SW300 A series of IP55 rated junction boxes manufactured in mild steel with two removable, gasketed gland plates and two mounting bars with M10 CLR holes, all finished in RAL 7032 light grey.

Klippon type terminal are fitted to 'G' type din rail and are available in the quantities and styles shown.



Slide Link	
SW300/10	6 pair
SW300/11	10 pair
SW300/12	15 pair
SW300/13	20 pair
SW300/14	25 pair
SW300/15	30 pair
SW300/16	50 pair
SW300/18	100 pair

Standard Link	
SW300/3	6 pair
SW300/4	10 pair
SW300/5	15 pair
SW300/6	20 pair
SW300/7	25 pair
SW300/8	30 pair
SW300/9	50 pair
SW300/17	100 pair

Knife Link	
SW300/30	6 pair
SW300/31	10 pair
SW300/32	15 pair
SW300/33	20 pair
SW300/34	25 pair
SW300/35	30 pair
SW300/36	50 pair
SW300/37	100 pair

Plug Link	
SW300/40	6 pair
SW300/41	10 pair
SW300/42	15 pair
SW300/43	20 pair
SW300/44	25 pair
SW300/45	30 pair
SW300/46	50 pair
SW300/47	100 pair

GR32

GR32 A light duty girder or wall fixing junction box with an 8 way terminal block and 2 x 20mm brass SWA cable glands. Finished in white stove enamel they are supplied with a removable lid and either a zinc plated J-Bolt for fitting to 100-150mm girders or a drilled back bar for mounting directly onto a wall or a flat surface.

GR32/8	8 way girder mounting
GR32/8/WM	8 way wall mounting

Protect-A-Flex Cable Handling System

SW130 Protect-a-flex is a cable handling system that provides support and protection for all types and sizes of cables and hoses.

It is manufactured from 10mm mild steel for strength and has 2 openings 127mm x 275mm wide.

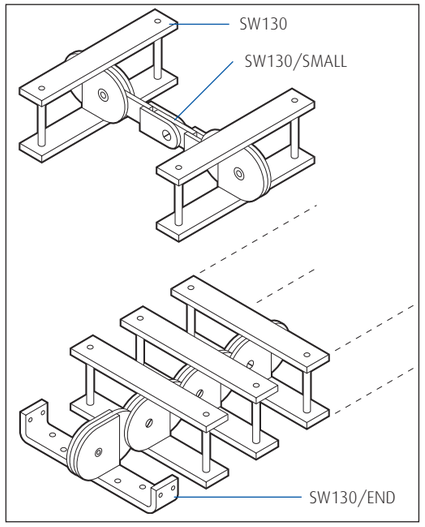
There are 9 links to 1 metre of length and these can either be the full links type SW130, or a combination of full links and the smaller weight/cost saving links part number SW130/small.

Each full link is supplied with 2 bolts/pins to secure the cables/pipes in place and is finished in white.

When ordering, multiply the required length by 9, to give the total number of links and then split that quantity into standard and small links as required.

Note: if required, the links can be made having different size openings or manufactured from stainless steel.

SW130	Standard link
SW130/SMALL	Small link
SW130/END	End bracket



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