

Living Industrial Partnerships



IMAGE BROCHURE

All Series



**Control
Components
Overview**

Dear Customers and Contributors,

With this issue of our company's Product Image Brochure we proudly introduce you in a glance to the results of the development work we have done during the last 5 years. With our actual and most complete 41 product lines in Control & Switchgear Products, with more than 40.000 different models available at your fingertips, we take especially pride to be your European Supplier of Choice with the widest and most complete product range in our segments of the world market places.

This success is owed to the contribution and devotion of all our staff and external providers, but to a large extent we owe this achievement to the direct input of our key industrial customers worldwide, who helped us a great deal by challenging our R & D section with the continuous formulation of their needs and requirements on the functional features and quality on the top product of their 1st- Choice, and by testing, continuously improving and finally approving our newest products in the field.

Our esteemed Partner Customers all over the world love the experience of working with us because we are devoted in our daily work to deliver proof to them that all of us really live our Company Culture and Mission statement,

LIVING INDUSTRIAL PARTNERSHIPS

In our high level of product quality and added value services by maintaining best prices, product availability and logistics well managed by one of Top 5 Logistic Groups in the world.

But working in close Industrial Partnerships with Werner, based on values like trust and harmony, stands for much more. Wherever in the world you as our valued customer might be, you can be sure we supply you with the same high quality and service standards, as we serve our European clients with.

We strictly pursuit our Product & Customer Service Principals and guarantee to all clients:

ONE WORLD MARKET ONE HIGH QUALITY

We want to express our strong desire to having you experience some new inspirations for you daily work out of the study of this booklet and to be able to welcome you in the group of highly satisfied worldwide Werner customers soon.

With Respect



Dipl. Ing.
Hans Joachim Schlößer
CEO WERNER HOLDING Ltd.



WERNER's 15 series inductive sensors offer innovative, high quality to meet the needs of the worldwide automation and process control industries. Our rich experience, flexibility and exceptional customer focus continues to allow us to offer custom designed solutions for the most distinctive and demanding applications.

Features Overview:

- ☐ Models with PVC, PUR or silicon cable
- ☐ Smooth threaded stainless steel housings
- ☐ Models approved for gas & dust Ex-zones
- ☐ Polarity reversal and short-circuit protected
- ☐ Extended temperature range: -40 °C up to +100 °C
- ☐ Connection styles include M8, M12 or terminal connection models
- ☐ Outputs in 2, 3, 4-wire AC & DC
- ☐ The extensive product range offers a solution for almost every application



15 Series Highlights:

- ☐ Models with stainless steel sensing face available
- ☐ Exclusive ferrous and non-ferrous detection models
- ☐ Reduction factor of 1, all metals sensed at same distance
- ☐ Smallest inductive sensors with fully integrated electronics
- ☐ An integrated LED which indicates the current switching status
- ☐ The flush installation protects against mechanical impact or damage
- ☐ Protective class of up to IP68/ IP69K (submersible/ high pressure water jet resistant)

Werner Electric offers extremely wide range of inductive sensors that offers un-paralleled flexibility and advantages over other designs. Werner Electric's Inductive sensors are used in wide range of Industries ranging from Metal industries, to aerospace to Security applications to name a few. Regardless of your production line's technical complexity & sophistication, we have an effective solution that will meet your business needs.

WERNER's 16 series photoelectric sensors offer the widest range of high quality & significant advantages over competitive designs, provide with High environmental resistance & cable extension capabilities, increased installation versatility & flexibility.

Features Overview:

- ☐ Stainless steel, brass or plastic housing
- ☐ Durable, long sensing distance, fast response time
- ☐ Virtually No Sensing Object Restrictions, high resolution
- ☐ Right-angle & spherical optics for precise detection
- ☐ Through-beam, Retro-reflective and diffuse-reflective types
- ☐ Precise background suppression, laser devices, fiber-optic solutions
- ☐ Transparent housing base ensures good LED visibility from all sides
- ☐ Special beam models, high power LED to compensate dirt & misalignment
- ☐ Built-in power supply, suitable for 24-240V AC; no extra power supply needed

16 Series Highlights:

- ☐ IP67, IP69 for highest water resistance
- ☐ Non-contact Sensing, easy Adjustment
- ☐ A variety of connection options, Ingenious accessories
- ☐ Complete sensor portfolio in robust housing
- ☐ High immunity against electro-magnetic noise and ambient light



Werner Electric offers extremely wide range of Photo electric sensors that offers un-paralleled flexibility and advantages over other designs. Werner Electric's photoelectric sensors are used in wide range of Industries ranging from Metal industries, to aerospace to healthcare applications to name a few. Regardless of your production line's technical complexity & sophistication, we have an effective solution that will meet your business needs.



WERNER's 17 series capacitive sensors offer fully integrated reliable solutions, that addresses the complex and difficult signal processing challenges of high demand applications; provided with innovative technology & high accuracy capacitance sensing for Industrial, Automotive, and Consumer applications.

Features Overview:

- ☐ Compact & effective
- ☐ Clear indication of Status
- ☐ Available in various sizes
- ☐ Sensing distances 2 mm and 5 mm

17 Series Highlights:

- ☐ Durable and excellent thermal stability.
- ☐ Material-independent for metallic targets.
- ☐ Excellent EMC characteristics, Low let-through energy.
- ☐ The sensors can be mounted together in direct proximity.
- ☐ ROHS Compliant, wide range of internal and external accessories.
- ☐ Direct mounting on metal surfaces, Suitable for insulating materials.
- ☐ Close protection for changing load. Line load reversibility available.

Werner Electric offers extremely wide range of capacitive sensors that offers unparalleled flexibility and advantages over other designs. Today, Werner Electric's capacitive sensors are being supplied to countless electronic and Industrial applications across the world. Regardless of your production line's technical complexity & sophistication, we have an effective solution that will meet your business needs.





WERNER's 20, 21, 22 & 23 Series General Purpose & Power Relays represent the most complete line of state-of-the-art high performance electrical switches, designed and manufactured to highest international industry standards. Mechanical lifetimes of up to 10 Million operations and electrical durability of up to 250.000 switching cycles under full load make WERNER Relays your best choice of all.

Features Overview

- ❑ All models designed applying MFMS design principles (**M**ax **F**unction **M**in **S**pace)
- ❑ All models designed applying solid modeling and finite elements design methods
- ❑ All Relay Series are equipped with mechanical operation status indicator
- ❑ All models approved under UL, CE, RoHS, CCC and DEMKO standards
- ❑ All models design for heavy duty or even vibrating environments
- ❑ All models available for use with 50 Hz and 60 Hz cycles

20,21,22,& 23 Series Highlights

- ❑ All fixed contacts powered by WERNER AFT (Anti-Fuse-Technology)
- ❑ All Power Relays Series provide massive silver blade or pin contacts
- ❑ Power Relay Series with up to 10 Ampere Continuous Load Current
- ❑ Most models available in 6V, 12V, 24V, 110V & 220V AC or DC
- ❑ Most models available in SPDT, DPDT, 3PDT as well as 4DPT
- ❑ Up to 7 types of operation status indication available

20, 21, 22 & 23 Series General Purpose & Power Relays by WERNER provide our highly demanding industrial customers out of all industry verticals worldwide with the most reliable devices in the industry. Combined with the vast selection of sockets in our 70 – 76 Product Series you will find an industrial solution exceeding your expectations whilst satisfying your every need and design requirement.



WERNER's 24 Series Ultra Slim Relays embody the latest in compact relay design technology you can buy anywhere on the world market. Only a selected few of the world's top brand relay suppliers are even able to produce this kind of high performance fully sealed type of relays. With this product line WERNER once again sets the mark in terms of advanced product design, top features and availability.

Features Overview

- ☐ All models designed applying MFMS design principles (**Max Function Min Space**)
- ☐ All models designed applying solid modeling and finite elements design methods
- ☐ All models design for heavy duty or even vibrating environments
- ☐ All models available for use with 50 Hz and 60 Hz cycles
- ☐ All models available for direct PC or socket mounting
- ☐ Featuring only 5mm width of both relay and socket

24 Series Highlights

- ☐ All models designed for direct PC mount or panel mount via 74 Series sockets
- ☐ All models available in standard current ratings from 6V, 12V, 24V & 48V DC
- ☐ Available in SPST with up to 8 Ampere Continuous Load Current
- ☐ Available in SPDT with up to 6 Ampere Continuous Load Current
- ☐ All models provide a dielectric strength of up to 5 KV
- ☐ All Relays are fully sealed type

24 Series Ultra Slim Relays by WERNER are your best selection if you need to create highly demanding low current circuits with a minimum usage of space. They stand by your optimum solution in space saving technology, if you have to satisfy your client's wishes with a very compact but yet best performing relay.



PC Board Relays

25 & 26 Series

WERNER's 25 & 26 Series PC Board Relays are the product of your choice if your designs require SPDT or even DPDT relays but board space and available height is very limited. Like our 24 Series, the 25 Series products are fully sealed for use in harsh surroundings, whilst the 26 series products are not sealed.

Features Overview

- ☐ All models available for direct PC Board Mounting, PCB socket mounting and Panel socket mounting
- ☐ All models designed applying MFMS design principles (**Max Function Min Space**)
- ☐ All models designed applying solid modeling and finite elements design methods
- ☐ 26 Series available as SPDT, DPDT, SPST-NO as well as DPST-NO
- ☐ All models available for use with 50 Hz and 60 Hz cycles
- ☐ 25 Series available as SPDT as well as DPDT

25 & 26 Series Highlights

- ☐ All models available in standard coil voltage from 6V to 240V AC/DC
- ☐ Available in SPST with up to 10 Ampere Continuous Load Current
- ☐ Available in SPDT with up to 8 Ampere Continuous Load Current
- ☐ 25 Series are fully sealed and height of only 16mm
- ☐ All models provide Dielectric strength of up to 5 KV

25 & 26 Series PC Board Relays by WERNER offer you just the right products for those circuits where space is ever precious, but the large number of sets needed weigh out a little larger use of PCB space against mentionable savings in the purchase invoice of the needed quantities.



WERNER's 28 & 29 Series Solid State Relays are designed for the ultimate applications in the world of LV-Switchgear building where electronic switching is required, when it comes to control switch tensions of up to 440V DC and handling of current of up to 100 Amperes at the same time. Both PCB mounting and Panel mounting available.

Features Overview

- ☐ Unique design heat sinks save space and provide maximum heat dissipation
- ☐ Built-in snubber circuit protects against external surges with high efficiency
- ☐ All AC models come with built in '0' Crossing circuit as a standard feature
- ☐ All models available for use with 50 Hz and 60 Hz cycles
- ☐ Use 29 Series for 2 & 3 Phase Output
- ☐ Built in Reverse voltage protection

28 & 29 Series Highlights

- ☐ Find the right model for any load current between 2 and 100 Amperes
- ☐ Providing much higher operation frequency than mechanical relays
- ☐ Choose between AC and DC as the control Voltage for all models
- ☐ Highly extended lifetime by means of no moving parts
- ☐ Operation Indicators visualize the operational state
- ☐ All Solid State Relays are fully sealed type

28 & 29 Series Solid State Relays by WERNER are made for contact free switching without any moving parts and provide extended lifetime without any need of maintenance, in a totally sealed housing, protecting them from all kinds of hazardous environmental influences- and all this comes combined in a very space saving compact design.



WERNER's 30 Series Annunciator Windows are the solution of choice, if your task is to fit large number of process indicators into limited panel space. Using our 30 Series products will provide you with perfect process clarity in the daily operation of your panels with a very space and cost saving solution.

Features Overview

- ☐ Flasher circuits when integrated with our 68 Series Logic Controller
- ☐ Buzzer circuits when integrated with our 68 Series Logic Controller
- ☐ Standard fitted with high bright filament lamps & LED in AC or DC 6V, 12V & 24V
- ☐ Available in 6 Colors as per IEC Standards for different alarm conditions
- ☐ High-Bright multi color display technology
- ☐ Design based on 30mm raster elements

30 Series Highlights

- ☐ Available with BA9s Multi-Chip LED design in 6V, 12V, 24V, 110V & 220V AC/DC
- ☐ Indefinite combinations of window sizes, colors & control logics are possible
- ☐ Self-creation of window indication labeling is possible using laser printer
- ☐ Pre-wired elements provide cost savings by means of reduced wiring time
- ☐ A large variety of window sizes can easily be mixed in one single unit
- ☐ Configuration allows for up to 200 windows in one panel set-up



30 Series Annunciator Windows by WERNER go beyond all relevant industry standards in their entire technical features. They are used by panel engineers with highest expectations on quality and reasonable price.

WERNER's 31 Series Stack Lights provide the highest quality combined with usability and flexibility in the industry. The unique and stylish elliptical body and lens shape guarantees best visibility from any angle. A vast variation of bases ensure to enable you mount them everywhere you need.



Features Overview

- ❑ 4 unique ways of mounting
- ❑ Mounting is easy and flexible for maximum visibility
- ❑ Available in 12V ~ 24V AC & DC, 120V ~ 240V AC
- ❑ Standard equipped with integrated buzzer module
- ❑ Housing available in stylish Black and Grey
- ❑ Completely modular and stackable

31 Series Highlights

- ❑ Enhanced 360° visibility and attention attraction with unique oval lens shape
- ❑ Available in six lens colors (Red, Amber, Yellow, Green, Blue & White)
- ❑ Highest visibility by use of High-Bright Multi Chip LED's only
- ❑ New flashing LED modules available for maximum attention
- ❑ Custom arrangement of the LED's is easily possible

31 Series Stack Lights by WERNER are the most advanced and stylish designed solution available for all kinds of demanding industrial applications, if you need to provide your production team with a clear and conspicuous overview about the operational status of the precious machinery in your production plant.



Light Curtains

33 Series

WERNER Provides light curtains to solve almost any of optical guarding needs. From compact models designed for machine locations where space is a criteria, to larger, robust light curtains powerful enough to guard large perimeters. This optoelectronic safety barrier protects workers exposed to risks arising from the use of dangerous machines. The most economical & safety light curtain made in Asia.



Features Overview:

- ❑ Available from compact models to larger and robust models
- ❑ Sensing objects of 25 to 50 mm with a range of 6 meters to 20 meters
- ❑ All safety functions integrated inside the emitter and the receiver as per EN 61496-1

33 Series Highlights:

- ❑ Most economical safety light curtains made in Asia
- ❑ This series provides almost all optical guarding needs
- ❑ Safety barrier vision with two static outputs can operate without external control
- ❑ Ideal for protection of palletisers, depalletisers, handling, storage & robotized areas

The safety barrier vision, with two safe static outputs, can work without external control units with all the safety functions integrated inside the emitter and the receiver in perfect compliance with requirements of European and International standards. Werner light curtains can give all the functions like Single side Muting and Both side Muting, Continuous Blanking and Programmed Blanking. Objects of 25 mm and 50 mm sizes also can be sensed with a range of 6 to 20 Meters.

Ideal for protection of Palletisers and Depalletisers, Handling and Storage systems, Assembly and Disassembly lines, Robotized areas, Wood and marble processing machines, Welding systems and Robots.



WERNER's 35 series light bars mark the latest innovative invention on the market if it comes to brighten your panels or interior of your machine with a slim, flexible, high bright and cost saving illumination system which can be mounted almost everywhere, even in the tightest corners of your machine or panel.

Features Overview

- Unlimited possibilities of mounting inside your machine or panel - even behind Z-folds & hinges - through slim and length adjustable design of the lighting units
- Mounting is easy and flexible for maximum illumination in discrete mounting spaces
- Like all WERNER products approved under European CE and RoHS regulations
- Overvoltage category III according to EN IEC 60947-5-1
- Available in single length's of 200mm up to 1000mm and operating voltage of 12V to 48V DC

35 Series Highlights

- Each super bright multi-chip LED in the unit provides the same light as a 20W regular lamp but consumes only 30% of the power of a fluorescent light
- All models available either with dust proof IP 40 or particle proof, water proof and oil tight according to IP 69 protection classification
- Use of only tier 1 LED's guarantees for a lifetime of over 50000 hours of continuous operation
- All models epoxy sealed allowing for use in food processing lines, CNC machines and panels

35 Series LED Light Bars by WERNER are especially design for heavy duty industrial use in all unfriendly environments. They represent a product line purely meant for demanding industrial clients who want to provide safe and bright illuminations to their machines and safe cost in purchase and in operations.



WERNER's 39 Series Miniature LED-Indicators are the right choice if you are in need of a basic low cost but high quality solution of panel mounted indicating light. They produce almost no heat with minimum power consumption - a very important feature when you lay out the power supply towards your panels.

Features Overview

- Bright LED light with built in reverse diode and current limiting resistor
- Fits any application with round, squared and rectangular bezel shapes
- Available in Ø 8mm, Ø 10mm and Ø 12mm panel bore size
- Choose between 6V, 12V and 24V for AC and DC
- Available with smooth flat lenses
- Long life time by use of highest quality LED's

39 Series Highlights:

- LED's used, provide a lifetime of up to 11 years in continuous operation
- All products are compliant with European CE & RoHS regulations
- Produced to match highest industry standards and applications
- Compact design saves space on and under your panels
- Operation current consumption is less than 10mA
- Choose from a wide selection of colors

39 Series Miniature LED-Indicators by WERNER are the product of choice if you attempt to equip a large number of panels on a budget but still maintaining highest industrial quality standards plus years long durability of your panels and switchboards.



WERNER's 40 Series Switch & Indicator devices provide the widest selection of switch actions and applications in any series of switches combined with matching indicators in the industry and are the first choice for many of our very demanding industrial clients with a view on highest quality at reasonable prices.

Features Overview

- ☐ Choose between illuminated & non-illuminated switches & indicators with 16mm (5/8") shafts
- ☐ Choose from LED's between 6V, 12V, 24V, 110V and 220V for AC and DC
- ☐ Fitting any application with round, squared and rectangular bezel shapes
- ☐ Very compact design to match in standard 16mm (5/8") drill holes
- ☐ In-built current limiting resistor and gasket lenses for LED's
- ☐ Double throw contacts provide perfect connectivity

40 Series Highlights

- ☐ Widest product variety such as pushbuttons, indicators, selector switches, key switches as well as mushroom head emergency push-lock versions
- ☐ All contacts of all models are gold plated for best connectivity
- ☐ Internal snap action provides unfailing switching
- ☐ Very elegant, stylish and future looking product design
- ☐ Ideal product for to use in connection with PLC's

40 Series Switches & Indicators by WERNER are the product of your choice if you have to satisfy your customer's highest demands in view of product quality combined with high expectations on product & panel design using a complete series of matching products from only one full range supplier.



Stackable Switches & Indicators

41 Series

WERNER's 41 Series Switches & Indicators comprise the same most complete line of matching solutions for 16mm bore holes like the 40 Series, but are outfitted with a stackable design. The slim design of all available models will help you to reduce the size of the required panel to a significant extent.

Features Overview:

- ☐ All colors are available as push buttons, indicators, selector switches.
- ☐ Key switches as well as mushroom push-lock turn to reset switch available
- ☐ Select from illuminated & non-illuminated, switches & indicators for your applications
- ☐ You may choose between both, Multi-Chip as well as filament lamps for illumination
- ☐ 16mm (5/8") shaft diameter makes them very compact and finger friendly
- ☐ Internal snap action provides unfailing switching and positioning
- ☐ Maximum of 3 NO + 3 NC Contact arrangement possible.

41 Series Highlights:

- ☐ Stackable contacts make them very modular to be used in any application since you can add or remove the contacts according to your individual requirements
- ☐ Guaranteed highest reliability to be used in connection with high performance solid state, PLC's and other electronic circuit applications
- ☐ Fitting any application with round, squared and rectangular bezel shapes in many colors
- ☐ Highly flexible in use to make your design changes as easy as possible

41 Series Stackable Switches & Indicators designed and produced by WERNER, supply highly reliable mechanisms and the flexibility to change your panel design at any time, without having to think about the smallest detail. And all these extremely useful features come along with a very elegant & stylish design.



WERNER'S 43 series cam switches represent the classic cam switch design. Specific models for all current ratings offer an ideal solution for a wide range of applications. The mechanical segment features the optimal layout of its components and the use of materials with high wear resistance, provides accurate operation and durability against high-frequent switching up to five million times.

Features Overview:

- Ranges from 10A to 32A capacity
- Switching angles: 30°, 45°, 60° and 90°
- Gold-plated contacts for reliable switching
- The sizes up to 32A are suitable for snap on door mounting
- Switches also suitable for very low voltages 5V & currents 5mA

43 Series Highlights:

- Extended mechanical and electrical life
- Finger-proof tunnel terminals and interconnections
- Lug terminals for connecting cable clamps & crimp lugs are available
- Captive +/- screws & integrated screwdriver guides, save installation time
- Switches are suitable under adverse, aggressive environmental conditions

Finger proof terminals from 10 Amps to 32 Amps are ideally suited for many standard applications where industrial controls, instrumentation and electric motors are involved. For low voltage applications down to switching of electronic signals the 43 series switch are offered. The switch has gold plated contacts and assures reliable switching, even under adverse, aggressive environmental conditions.



WERNER's 44 Series Metal Bezel Switches & Indicators represent the next generation in switch technology, leaving the state-of-the-art in panel switchgear design behind. Using highly refined modeling methods combined with finite element analysis in the design and testing process gives you the second-to-none edge of your competitor if it comes to impress your final customer or engineering directors.

Features Overview:

- Whole Series is equipped with tamperproof mounting and modular stackable contacts 22mm (7/8") shaft diameter makes them very strong and reliable in heavy duty use
- High class metal finish of the control units provides unique and highest class looks
- Guaranteed life time between 500,000 and 5,000,000 switching operations
- Equipped with pure silver contacts with a self cleaning action
- RCBA components match IP20, all other's IP 65 standards

44 Series Highlights

- 2-piece Removable Contact Block Assembly(RCBA)-Technology allows you to wire up your panels very fast from the backside and independent from the assembly of the actuators
- RCBA Technology guarantees for minimum downtime when servicing or changing your panels and in assembling. This even allows you to change actuators without disconnecting of the wiring
- Stackable function of up to 6 contact blocks provides maximum freedom in design
- Select from maintained and momentary switching actions in Illuminated, non-illuminated, selector, key, E-stop switches and High bright LED Indicators in all colors.

44 Series Metal Bezel Switches & Indicators by WERNER combines the ultimate in useful top tier functionality with an appealing high class product design. These stylish devices guarantee for durability and utmost customer acceptance if it comes to satisfy very demanding clients in terms of product quality, product abilities and diversity, combined with a cost saving design and flexibility in the assembling of your panels.



WERNERS 46 Series Foot Switches are Rigorous and tough. Made up of strong aluminum housing with non-skid pedal offering a wide variety of switching combinations with unmatched safety.

Features Overview:

- ☐ Available in two colors Red and Yellow
- ☐ Made of Strong aluminum housing with non-skid pedal
- ☐ Available pedal protection with 400 mm / 600 mm carrying rod
- ☐ Modular contact blocks inside allow servicing and replacement of contact.
- ☐ Options for top or complete protection against unintentional actuation

46 Series Highlights:

- ☐ Oil and chemical-resistant
- ☐ Pedal protection with key Emergency off
- ☐ Stroke limitations in the switches avoid mechanical overloading
- ☐ Protects safely against dust and humidity (protection degree IP65)
- ☐ Ideal for press, punching, bending & sheet steel processing machines
- ☐ Oil & chemical-resistant rubber membrane protects against dust & humidity
- ☐ Contact block suitable for 6A@250VAC and 1NO+1NC

Depending on the environmental conditions and mechanical duty, different versions of foot switches have been designed. The robust 46 Series switches are generally used in the engineering industry, e.g. on presses, punching and bending machines as well as in sheet-steel processing.



General purpose limit switches

48 Series

WERNER'S 48 series general purpose limit switches have a sturdy construction comparable to any limit switch. It uses a zinc die-cast body, a glass-weave reinforced plastic head, and a cover. The terminal cover also boasts excellent dust-proof and drip-proof capabilities.

Features Overview:

- ☐ Sturdy construction comparable to any limit switch.
- ☐ Provides excellent dust-proof and drip-proof capabilities.
- ☐ Zinc die-cast body, glass-weave reinforced plastic head & cover.

48 Series Highlights:

- ☐ Highly accurate position detection is possible in these limit switches.
- ☐ Options of various actuator heads available for almost all applications.
- ☐ Unique head structure provides a large over travel for smooth operation.
- ☐ Ideal in forming, light, printing machines & door closing sensor applications.
- ☐ Contact block suitable for 6A@250VAC and 1NO+1NC



The terminals are open as far as flank, when cover is removed, as such no necessity to insert the fingers into the case for wiring up. Highly accurate position detection is possible in these limit switches. As contact detection is possible, the level of conducting fluids can also be controlled. The main unit and the cover are sealed with rubber packing, cord runner is doubly sealed by the cord vent. The actuator in all the models is sealed by a rubber cap and an O ring adding to the ingress protection.

Actuators available are Pin Plunger, Sealed Roller Plunger (Vertical & Horizontal), Plastic Rod (Pointed & Parallel), Roller Lever, Adjustable Roller Lever, Adjustable Rod Lever, Spring Wire, Coil Spring Wire and Adjustable Roller Lever with 50 mm Diameter rubber roller.



WERNER'S 49 series miniature limit switches are Sealed, Compact, and Slim-bodied it can replace conventional limit switches because of high degree of protection & Triple-sealed construction enables the usage in any kind of wet and damp environment.

Features Overview:

- ☐ Sealed, compact and slim bodied
- ☐ Only 16 millimeters thick
- ☐ Pre-wired cables lengths of 2, 5 and 10 meters in all models
- ☐ Center roller lever models that enable ganged mounting switches

49 Series Highlights:

- ☐ Complete aluminum die cast body
- ☐ Triple sealed construction enables usage in wet & damp environment
- ☐ Options of various actuator heads available for almost all applications
- ☐ Ideal in forming, light, printing machines & door closing sensor applications
- ☐ Contact rating of 5A @ 250VAC and 1NO+1NC

The plunger section sealed with nitrile rubber packing seal and diaphragm, switch section sealed with nitrile cap, and cable entrance sealed through encapsulating material meets the requirement for IEC IP67 degree of protection. Cable lengths of 2, 5 and 10 meters are available on all models. Multiple mounting positions possible with switches and plungers enable to achieve errorless limiting action.



WERNER'S 50 series miniature circuit breakers provide the customer a comprehensive efficient, reliable protection of equipments, cables and installations in buildings for over load and short circuit faults.

Features Overview:

- ☐ MCB's of 17.5mm pole width
- ☐ Ideal protection for overload & short circuit
- ☐ Available in single, double, triple & four poles
- ☐ Current ratings ranging from 2 amps to 63 amps
- ☐ Available in B, C, D curves with S/C breaking capacities 3, 4.5, 6 & 10 KA

50 Series Highlights:

- ☐ Compact and Din mountable.
- ☐ High mechanical and electrical life enhances reliability and savings on investment.
- ☐ Auxiliary contact, trip indicating, under voltage and shunt release blocks are available.

Ranging from 2 Amps to 63 Amps in single, double, triple and four pole versions, 50 series miniature circuit breakers are with uniform switching capacity of 3 KA, 4.5 KA, 6 KA and 10 KA throughout in three different tripping characteristics B, C & D curves provide the ideal solution for all applications from semiconductor protection to cable protection, up to the protection of control transformers.

The finger touch proofs terminals provide installation safety and combined terminals allow bus bar and feeder cable to be simultaneously connected. 50 series MCB's can be mounted in any position.



WERNER'S 51 series moulded case circuit breakers, a new launch which provides the ultimate in compact design, unprecedented value, and use anywhere in the world. Pricing itself among the lowest in the industry, 51 series is any unique choice for any application.

Features Overview:

- ☐ Available in 3 pole & 4 pole versions
- ☐ Available in 25KA, 50KA and 70 KA breaking capacity
- ☐ Ranging from 15 A to 630 A with thermal magnetic release
- ☐ MCCB's have high uptime, thus reducing maintenance costs & down time costs

51 Series Highlights:

- ☐ MCCB's with built in arc chambers
- ☐ Modular & compact design which saves space
- ☐ Wide range accessories available

The unique technology used in the arcing chambers in the circuit breakers of the series assures strong limitation of the let-through energy and reduction in the peak currents, therefore limiting overheating of the devices and electro-dynamic stresses.

The 51 series is characterized by being a product with high technological content, with excellent performances in minimum overall dimensions. Standardized range of accessories with considerable advantages in terms of reduced inventory as well as flexibility and ease of use.



WERNER'S 52 series residual current circuit breakers, designed for detecting and tripping on even a small leakage current there by offering instant protection to human life against electric shock, fire hazards and as well as electrical equipment. This series of residual current circuit breakers are manufactured with superior materials and high technology to suit its highest performance.

Features Overview:

- ☐ Available in 2 & 4 pole versions
- ☐ Available in 25A, 40A, 63A and 80Amps current ratings
- ☐ Available in 30, 100, 300 & 500 milliamps sensitivities

52 Series Highlights:

- ☐ Protects human life from electric shocks
- ☐ Most sensitive & reliable protection device
- ☐ Detects & trips even on tiny leakage current
- ☐ Fingers touch proof terminals for operator safety
- ☐ With simple and robust operating mechanisms & protect installations against fire
- ☐ Test button to check the Mechanical functionality.

52 series is also used for isolation, switching and earth leakage protection within the circuit of AC 50/60Hz, rated voltage of single pole up to 240V, three poles up to 415V. It can also be used for a intermittent switchover of circuit and illumination under normal condition. Available in 25A, 40A, 63A and 80A with 2 Pole and 4 Pole. Available in 30, 100, 300 & 500 mille-amps sensitivities.



WERNER'S 53 series general purpose contactors are most robust, economical and readily accepted by all segments of industries where a prime mover is involved. It is an electro-mechanical switch to start a motor.

Features Overview:

- Ranging from 9 A to 150 A, built in NO & NC contacts
- Available with DC coil voltages in 24V, 48V & 110Volts
- Also coil voltages 24V, 48V, 110V, 220V, 240V, 380V & 415V AC
- Chatter-free operation with easy Installation and simple wiring

53 Series Highlights:

- Most reliable & economical electro-mechanical switch
- Contact kits made of weld-resistant silver alloy make it more reliable
- Pre-wired reversing contactors with mechanical interlock
- Accessories include top & side mounted blocks, surge suppressors, timers & OLRs
- Low power consumption with mechanical life span up to 2 Million operations

53 series contactors includes reversing contactors also, featuring weld-resistant silver alloy contacts providing unparalleled reliability, ranging from 9 Amps to 150 Amps available in AC and DC coils with a life of 2 million operations. The coils are designed for low power consumption. Chatter free operation eliminates contact welding and coil failures.

Range of accessories include top and side mounting auxiliary contact blocks, coil surge suppressors, relay interface modules and timers. Din installation rail support and standardized terminal spacing make installation and wiring simple.



WERNER'S 55 series motor protection circuit breakers are designed for comprehensive overload, short circuit protection, most excellent device in supervision of motors in manufacturing & process industries. 55 series MPCB's are characterized by their compactness & modularity.

Features Overview:

- Available up to 32 A
- Direct mounting on 35 mm din rail
- Stand alone motor protection breaker
- Modular & compact in size saves panel space

55 Series Highlights:

- Most suitable for original equipment manufacturers
- Wide range of accessories make application field wider
- Reliable protection for over load & short circuit in motors
- Ideal for machine tools, textile machinery, automobile & food industries

55 series MPCB's can be directly mounted on 35 mm DIN rail, available up to 32 Amps. Stand alone motor protection with enhanced system life ideal for original equipment manufacturers like machine tools, Textile machinery, automobile machinery, food processing machines and special purpose machines.

Numerous accessories make the application field wider and enable the fulfillment of the majority of user's demands, ambient temperature compensation eliminates need for constant current-setting-adjustment, and matching accessories reduce inventory levels.



WERNER'S 65 series power supply module is an innovative module with half the size of the other manufacturers. This is a flagship general purpose unit type power supplies with harmonic attenuator, high efficiency, compact body, rich functions and variations. Werner's power supply modules are the highest quality in the market and offer the ultimate in performance and reliability.

Features Overview:

- ❑ Sleek modules for space constraints
- ❑ Universal input voltage 90 V to 300V AC
- ❑ Mountable on 35 mm DIN rail or direct mounting
- ❑ Available range of out-puts 5V, 12V, 24V, 48V DC
- ❑ Wide out-put wattage range from 10 watts to 1500 watts

65 Series Highlights:

- ❑ Power supply modules have rich functions and variations
- ❑ Built in over-load and short circuit protections available in modules
- ❑ These modules are with high efficiency, performance and reliability

Short circuit protection and over load protection make the power supply very safe to use. Din rail mounting clamp are available. They have universal voltage inputs 90 Volts to 300 Volts AC. Derating not required in the modules, hence cost, space and time effective.

65 series power supply modules are available with different output voltages such as 5V, 12V, 24V, 48V DC and rated power between 10 Watts to 1500 Watts.



Wireless Remote controllers

66 & 67 Series

WERNER's 66 & 67 series wireless controllers provide the highest quality combined with ruggedness, usability and flexibility in the industry. The rugged remote controllers have been a great choice to crane manufacturers due to its light weight (10 ounces or less) & 100% error-free encoding.

Features Overview:

- ❑ Available from 24V to 230V AC
- ❑ Single speed and Dual Speed variants available
- ❑ Simultaneous operation of up to 50 Devices without interference.
- ❑ Easy plug-in interface provides quick and easy installation on existing cranes
- ❑ Rugged industry design to provide precise operation, degree of Protection IP65
- ❑ Remotes available in 8 and 12 buttons variant with Key-lock and Emergency Push button

66 & 67 series highlights:

- ❑ Operating temperature - -25°C ~ +70°C
- ❑ Impact and temperature resistant housing
- ❑ Lockable switch to prevent unauthorized use
- ❑ Improved safety due to extended range, typically 150M
- ❑ Hassle free operation, Resistant to Dust, water, oil, acids, alkaline, heat and sunlight
- ❑ Less power consumption, 150 hours of continuous operation with just two "AA" Alkaline Cells

Werner Crane controllers are offered in Single and dual speed configurations with multiple options to choose from, to suit wide range requirements. Werner Wireless controllers are offered in 8, 12 button options with further options like Push to Lock – Turn to release and Key-Lock safety features. Werner Electric offers extremely wide range of wireless controllers that offers un-paralleled flexibility and advantages over other designs.



WERNER's 68 series annunciator logic controller can be used for integrated alarm and supervision in various manufacturing processes. In highly automated and robotized plants, sophisticated control technology is employed to ensure safe operation.

Features Overview:

- ☐ Highly reliable in the event of emergency
- ☐ Sleek & economical, saves space in panel
- ☐ Basic module available with 16 channels, Test, Accept, Reset & Buzzer Stop
- ☐ Expansion module available in 16 & 8 channels
- ☐ MODBUS & Redundancy features available

68 Series Highlights:

- ☐ Available with 16 ISA and JIS sequence patterns
- ☐ Sequence selection through pre-set switches in this module
- ☐ Options of redundancy and modbus protocols available in the module
- ☐ Field changeable NO-NC input signal
- ☐ Built for easy interface with Werner's 30 series annunciator facia

In the event of accidental control circuit breakdown, 68 series annunciator logic controller plays a great role in monitoring process condition until the system returns to normal conditions. Mainly confirms to JIS/ISA standards and incorporates many first-out operations. As all signals necessary for a system are provided, one unit suffices to construct an annunciator system.

No instruction word or grammar is necessary for programming, as such operation is greatly facilitated and danger of settings change due to power failure or noise is eliminated. As the input/output circuit is isolated from control circuit, excellent noise-resistance characteristics are obtained. CPU circuits are under supervision at all times due to the original self-diagnostic function.



WERNER's 70-76 series sockets are the widest range of relay sockets. They are designed, manufactured and tested to meet the most demanding worldwide standard industrial requirements, our general purpose sockets offer reliable design, compact quick replacements, panel space saving and cost effective solutions.

Features Overview:

- ☐ Sockets with built in Diodes
- ☐ Sockets with upto 30 amps contact ratings
- ☐ Sockets with dielectric strength 2000V
- ☐ Options from single pole up to four poles

70 - 76 Series Highlights:

- ☐ Suitable for Din rail and PC board mounting
- ☐ Sockets with screw type & plug in type termination
- ☐ Werner sockets can accommodate all makes of relays
- ☐ Sockets available with finger proof terminals and spring clamp terminals
- ☐ Suitable for worldwide relay brands

Werner sockets are designed for matching or mounting any make of standard relays and will perform for heavy-duty applications, large loads, long life and safety circuits. Werner has pioneered the popular and much copied DIN rail, snap-mount sockets today. Werner supplies sockets for many other relay manufacturers, and has done so far a long time.

The series include screw type wire connection, plug in type wire connection, PCB connection which are mountable on DIN rail, direct to panel and on board. If you are not certain you are getting the world's best-selling, highest-quality sockets available, it's time you plugged into Werner Sockets.



WERNER's 77 series terminal blocks are standard screw terminal blocks with an innovative edge mountable on standard 35mm DIN rail, except for 10 Amps block which sits on 15 mm Din rail saving huge space in the panel. Available in different types like standard, spring lift, double deck, 3 pole with one piece Din rail and terminal blocks with fuse and indicator in Led or Neon.

Features Overview:

- ☐ One piece construction concept
- ☐ Standard 35 mm Din rail mounting
- ☐ Terminal blocks with fuse and indicator (LED/Neon) also in the range
- ☐ Spring lift blocks with touch-down terminals with spring loaded captive screws
- ☐ Made of PPE giving it a VERY high temperature resistance characteristic

77 Series Highlights:

- ☐ Terminal blocks are flame , shock and deformation resistant
- ☐ Many options of terminations available in this model
- ☐ Terminal blocks are with marking strips and dust covers

The unique "spring lift" terminal makes wiring ring-lugs very simple, 77 series terminal blocks with full size screws (nut & bolt termination on larger models) and current ratings up to 300 Amps almost for all applications. A UL94-VO flammability rating ensures safety. Dust covers and fuse holders with optional fuse status indication complete the model selection.

These terminals use full size screws in various sizes, held captive by unique carrier armature. Modular construction is incorporated for stacking of multiple sized blocks, with only one end plate require per run. A wide range of accessories such as jumper strips, dust covers and name tags are available to simplify wiring and to protect terminals.

WERNER'S 78 series Feed through terminal blocks are simple DIN rail mounted electrical terminal blocks. This is an ideal product to connect the control wiring (PLC's, Relays, contactors, etc.) to the field wiring.

Features Overview:

- ☐ Mount on standard 35 mm Din rail
- ☐ Terminal blocks are explosive resistant
- ☐ Shock resistant, easy mounting & dismantling
- ☐ Standard industrial color coding of green / yellow in this range
- ☐ Terminal blocks suitable for grounding / earthing wires available

78 Series Highlights:

- ☐ Marker holding to accept marking tags for circuit identification
- ☐ Sleeves & shorting links screws for cross connection available
- ☐ Ideal terminal block to connect the control wiring of PLC's, contactors & relays

78 series terminal blocks provide a means of connecting and identifying two or more wires within the demands of an industrial environment. It can terminate solid or stranded wires ranging from 18-3/0 AWG, and offer fusing, grounding or disconnecting capability within the electrical terminal block itself.

With standard screw terminals, 78 series terminal blocks are economical and reliable.



WERNER's 90 series Mosaic systems is widely used in almost all parts of industrial applications like Power Generating Plants, Water Treatment Plants, water pipeline systems, control cabinets, control rooms and Monitoring Arena within huge Industrial Plants.

Features Overview:

- ☐ Clear indication of process flow in the plant
- ☐ Printing, plotting and engraving options available on the mosaics
- ☐ Strong aluminum frame make it very strong and rugged
- ☐ Basic tile sizes suit din standards of 24x24, 24x48 and 48x48
- ☐ Tiles are made high quality MFPC

90 Series Highlights

- ☐ Werner can supply you the entire console with wiring and integration of all equipments.
- ☐ The print on the tiles are done with high quality inks which does not fade or peel off with age.
- ☐ Mounting of the mosaic into the panel is very easy and requires no additional adjustment in the console.

The uniqueness of this application or system is to combine the two different honey comb grids that is M24 W & M48 W with any desk plate, control panel, indicator panel & imbibe easily in a desk top by a seamless method. This incorporates with a host of measuring instruments, knobs, signal & control circuits present in the desk plate, wall panel or cabinet. In short we can say that it is one application which can hoist loads of other useful components with ease.





Product specifications are subject to change without notice.

Thank you for choosing **WERNER** products.

