

JAYASHREE

Automation & Control Products for Speed, Position & Power

- Proximity Switches
- Speed Switches
- Soft Starters
- Electronic Brake
- Level Monitors
- Load Monitors
- Optical Barriers
- Digital Indicators
- Transducers
- Annunciators & Dataloggers
- Energy Management Products
- Sequence Timers



Serving Industry since..... 1980

Drive & Control Products for Induction Motors

DIGITAL SOFT STARTERS / ENERGY SAVERS FOR LT/HT MOTORS

Manufactured with know-how from M/s FAIRFORD ELECTRONICS Ltd. UK. Micro-controller based soft starters for smooth and jerkless starting of AC Induction Motors. Complete range to meet every application requirement.

- Microstart** 3 wire, self calibrating Digital Soft Starters from 5 kW to 750 kW
- Microstart Plus** 3 wire / 6 wire with LCD display for setting and displaying running value of various parameters. State-of-the-Art design. Models from 5 kW to 1000 kW
- Startmaster** 2-phase control for economy. Range from 5 kW to 45 kW. Automatic Ramp up control based on selected application.
- SingSoft** For single phase motors up to 5 kW

Useful for : Pumps / Compressors / Fans / Crushers / Mixers Centrifuge Machines / Wind mills



REACTOR SOFT STARTERS FOR LT / HT MOTORS

HFSR / NRSS

Series Reactor type Soft Starters to meet general soft starting requirements. Specially designed air core type reactors for harmonic free operation. Iron core reactors also available for specific applications.

Useful for : Pumps / Crushers / Compressors / Machine Tools / Mixers / Fans etc.



ELECTRONIC BRAKE

Series EB 901

For controlled braking action of Induction Motor by injecting DC into stator winding. Different models for motor ratings from 1 kW to 150 kW. Units are available in IP-00 / IP-30 / IP-42 enclosures. Special models for auto-control action by sensing motor speed / back emf. Saves precious production idle time.

Useful for : Stopping of high inertia machines such as Centrifuge, Grinders, Conveyors etc.



ELECTRONIC LOAD MONITORS (Shear Pin) CURRENT MONITORS

Precision kW / current monitors for true power measurement and control. Highly reliable for protection of machines against overload / jamming. Fast & Reliable response compared to thermal overload relay. Digital display with keypad setting.

- ELM-9311 HL** Under - Over Load Monitor
- ELM 9311-H (Shear Pin)** Fast acting Overload monitor to work as Shear Pin
- ELM 9321-HL** Under - Over Current Monitor
Single model for motor of any rating.

Useful for : Machine Tools, SPM's, Grinders, Crushers, Conveyors etc.



POWERMET / ENERGY MANAGEMENT PRODUCTS

Series DI - 3601

Digital multi-data meter for display of various electrical parameters on single meter. Micro-controller based unit with RS-485 communication port. Measures and displays 3-Phase Current & Voltage, kW, kVAR, PF, Frequency.

RS-485 port with MODBUS communication for DATA Logging and remote monitoring on PC.

Useful for : Measuring Energy Consumption of any Electrical Installation.



Control & Safety Products for Automation

ELECTRONIC SPEED SWITCHES / TACHOMETERS

For monitoring Over - speed / Under - speed of any rotary or linear motion. Digital Indication with 4-20 mA output / RS - 485 port / Relay output. Wide range of speed sensors (Inductive / Magnetic / Optical). Speed sensing range from 0.1 to 10,000 RPM. More than 40 models. The major types are ; **RM 221, RM E21, RMP26**

Special models for Sensing Wind - speed (Anemometer), Belt Speed and Belt loading.
Useful for : Safety at bulk material handling plants, Cement, Fertilizer, Sugar, Process Industries.



LEVEL MONITORS

Different types of units are available for sensing levels of different materials stacked in Bunkers, Open space, Discharge chutes etc.

Series SW 421 Tilt switches are useful for sensing levels of bulk material in open yard or a bunker

Series SW 305 Ultrasonic sensors available for sensing liquid levels, slurry etc. Special models to suit specific applications are available on request.

Useful for : Monitoring levels of Bulk Materials, Liquids, Grains, Plastic granules in Material handling plants, Thermal power stations, Process Industries etc.



DIGITAL INDICATORS / CONTROLLERS

Series : DI-360

Microcontroller based controller systems to monitor any analog type input signal and provide accurate digital readout. Key pad setting of control parameters. Single or multi input monitoring possible. RS-485 communication for Data Logging.

Built in relay for control function. Models in DIN type enclosures for mounting on panel front. Selectable scaling factor. Display size available from 0.3" to 4".



TRANSDUCERS

Series RM 313

Transducers available to convert electrical and non-electrical parameters such as Temperature, Pressure, Fluid-flow, Active & Reactive power etc into process friendly linear signal.

Highly accurate and reliable; Low temperature drift. Small size, light weight DIN- rail mounting with excellent conversion & repeat accuracy and Low ripple in output signal.

Available in single channel as well as multi-channel outputs. Option of digital readout of output parameter in user friendly format.

Useful for : Process Industries, Petrochemicals and Automation Industries.



PROCESS CONTROL TIMERS / SEQUENCE TIMERS

Special function custom built timers to meet various time dependent control actions. Standard ON delay, OFF delay and ON/OFF delay timers available. Sequence timers with programmable delay available. Provision of RS-485 connectivity.

Series ST 261

Micro-processor based timers designed to meet specific applications. Digital display / Key-pad setting. Standard bag filter cleaning sequence timers available from 6 channels to 36 channels. Available in panel / flush mounting enclosures.

Useful for : every automation operation, Plastic moulding machines, Packaging Machines, Pharmaceuticals and Process control.



ALARM ANNUNCIATORS / DLC SYSTEMS

Series : MCS 761 / Series ACS 761

Micro-controller based and discrete IC based Alarm Annunciator units to display instrument (sensor / limit switches etc.) status at a remote location. Provision of RS-485 communication. Immune to EMI / EMC noise. Custom built dedicated logic control systems for specific application.

Useful for : Process Industries, Cement, Steel Plant, Port, etc.





Proximity Switches

INDUCTIVE / CAPACITIVE / OPTICAL / MAGNETIC / ULTRASONIC

Wide range of different types of Proximity Switches useful for Position / Speed sensing of metallic and non-metallic objects.

Models equivalent to International Brands are available. the Switches are available from 4 mm dia to 140 mm dia with sensing gap from 0.5 mm to 100 mm for Inductive type and upto 50 meters for optical thru beam type. The basic series are as below.

Series SW 405 - Inductive type sensor in 2/3/4 wire versions with all DC/ AC Voltages.



Series SW 505 - Capacitive type sensor in 2/3/4 wire DC / AC voltages.



Series SW 705 - Magnetic Reed Switch / Hall effect sensor for position sensing of ferrous material or for high speed measurement of gear wheels.



Series SW 605 - Optical type with Diffuse scan / Thru beam / Retro Reflective models in 2/3/4 wire and all DC / AC voltages.



Useful for Position Sensing / Counting / Speed Monitoring in Machine Tools, Robotics, Bulk Material Handling, Pharmaceuticals, Dairy, Foundries, Steel Plant, Plastic Industries etc.

Special models such as colour mark sensors, high temperature, Intrinsically safe for flame proof application, large sensing areas, linear output etc. are available.

Series SW 305 - Ultrasonic type position sensors available in M30 / M50 size. Suitable for DC 24 Voltage.



OPTICAL BARRIER SYSTEMS

Series OBS 6057

A reliable optical curtain for safety of humans from unintentional entry in hazardous locations.

Available in different pitch of beams and upto 20 No. beams.

Sensing range up to 5 meters for wider scanning area.

Immune to visible light variations and Electro-Magnetic noise.

Useful for : Human safety while working on heavy duty machines like Presses, Cutters, Bending machines and Machine centers.



* For more technical details contact works

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