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# PRODUCTS GUIDE

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Lloyd's Register



ABS  
TYPE APPROVED PRODUCT



*Innovation · Quality · Sharing*



### RF-Capacitance / Admittance Level Switch



#### SBX Series

- Suitable for sticky, viscosity application
- Max. operating temperature: 550°C
- Time delay & ground level test function available



### Pressure Level Transmitter



#### ECX Series

- Designed for complete submersibility
- Unique cable seal system ensures water tight integrity
- Pressure range: 0.1~400 bar
- Accuracy: 0.3%FS, 0.5%FS
- Output: 4~20mA or 0~10Vdc
- Zero & Span adjustment



### Vibrating Probe Level Switch



#### SCX Series

- Power supply: 20~250Vac/Vdc, 50/60Hz
- Output: SPDT Relay, SSR MOSFET
- No calibration required. Ease of use, rugged design
- High/Low failure safe modes. Safe and reliable operating



### RF-Capacitance Level Transmitter



#### EBX Series

- Power supply: 18~30Vdc
- Output current: 4~20mA
- Accuracy:  $\pm 1\%$ F.S.
- Max. Tensile strength of wire ( $\phi 9\text{mm}$ ) can up to 3.5 tons and 50M in length
- Measuring range: 20~2000pF
- High temp. up to 200°C
- Unaffected by pressure, sound wave temperature



### Tuning Fork Level Switch



#### SCX Series

- Power supply: 20~250Vac/Vdc, 50/60Hz
- Output: SPDT Relay, SSR MOSFET
- No calibration required. Ease of use, rugged design
- High/Low failure safe modes. Safe and reliable operating



### Capacitance Level Switch



#### SAX Series

- Ground level test function available
- Max. operating temperature: 800°C
- Sensitivity and time delay adjustable



### Rotary Paddle Level Switch



#### SEX Series

- Torsion adjustable for light material
- Clutch assembly to protect the motor
- Good shaft seal designed
- Temperature up to 200°C
- Various power supply selectable
- Unique sealing ring design to protect dust permeation
- Application: suitable for chemical, food, mining, plastic, ceramic industries



### By-pass Level Transmitter



#### EFX Series

- Material SUS316, PVDF, PP, Titanium
- Heating jacket installation available
- High temp. up to 400°C
- High pressure up to 130 bar



### Magnetic Float Level Transmitter



#### FGX Series

- Output available with loop power and 3 wire resistance
- Resolution:  $\pm 6.35$  mm,  $\pm 12.7$  mm
- Housing available with explosion proof and anti-corrosive
- Measuring range: max. 6m.



### Magnetostrictive Level Transmitter



#### EGX Series

- Absolute position measurement
- Excellent resolution and repeatability
- Voltage, current and RS485 outputs
- Field adjustable zero and span settings (analog only)
- Fast response time, High reliable performance of 0.01% F.S. resolution, with 0.1% F.S. Linearity
- Enclosure IP-67 rating
- Application: LPG liquid medium, pharmaceutical / beverage chemical process



### Side Mounting Float Switch



#### FFX Series

- Max. Operating temperature: 350°C
- Wetted parts available with stainless steel and plastic.
- Housing available with explosion proof and anti-corrosive.
- Approvals: ABS, GL, CE



### Mini Float Level Switch



#### FCX/FDX Series

- Compact simple design with high reliability, and low price
- Different mounting options
- Different connection types
- Application: water fountain, machinery, electrical, chemical, marine, test instrument, food machinery, washer, air condition, hydraulic machine



### Magnetic Float Level Switch



#### FCX/FDX Series

- Custom-made multi-point control, easy installation, reliable performance
- Housing available with explosion proof and anti-corrosive
- Max. operating temperature: 200°C for stainless steel
- Application: liquid processing, heat exchanger, hydraulic, power plant, oil, shipbuilding, petrochemical Industries



### Flexible Magnetic Float Level Transmitter

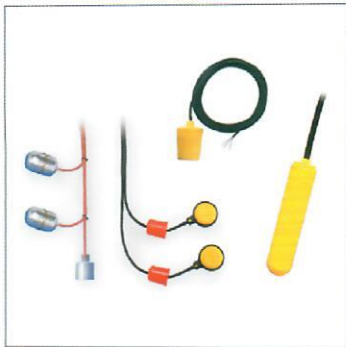


#### FGX Series

- High performance and reliable electric circuit modular design
- Explosion-proof housing
- It is not affected by environmental temperature, a change of pressure
- Flexible type is applicable for applications with longer probe lengths
- Display type is available for local indicator and quick setup Easy installation, and need require recalibration
- Choose dual-float as two different specific gravity level detection.



### Cable Float Level Switch



#### FAX/FBX Series

- Float material available with plastic and stainless steel
- Micro switch, reed switch and mercury switch available
- Simple installation and durable



### Paddle Type Flow Switch



#### SF X Series

- Operating temp: 30~150°C
- Contact rating: 60W/220Vdc SPDT
- Operating pressure: 355 psi



### Food-grade Impedance Spectroscopy Sensor



#### SIS Series

- Its standard connector is easy-to-install, with a protection grade of IP67/IP68/IP69K.
- The overcurrent protection can detect the overly high current of the circuit and switch off the output immediately.
- It is applicable to CIP and SIP cleaning environment
- It is free from the impact of foam and viscous media.
- It is applicable to the fluid, viscous media and power media in the container and pipeline.



### Optical Level Switch



#### SDX Series

- NPN, PNP open collector output to energize relay or PLC
- Outer material of PC, Polysulfone, SUS304/316 for acidity and alkaline; applicable in grease, waste water, liquid solution, liquor, alcohol...etc
- Over-current and reverse polarity protection
- LED status indication
- Application: liquid leakage detection, motor/pump protection



### Thermal Dispersion Flow Switch



#### SPX Series

- Open collector alarm output
- Measuring range: (Speed) water: 1~150 cm/s, oil: 3~300 cm/s
- Material: SUS304, 316, PVDF, PP
- No moving parts to cause wear and tear
- Application: water power plant, HVAC system, steel marking, petrochemical, food process, pharmaceutical, semiconductor, cooling pipe



### Pressure Switch



#### SQX Series

- Robust in any severe application
- Customized body housing (Steel, Sus316, Brass)
- Selectable contact (Gold contact or silver contact)
- Screw / push-on terminal contact selectable
- High quality and cost effective
- Adjustable pressure range setting



### Radar Level Transmitter



#### JFR Series

- Non contact measurement
- With LCD display, user friendly calibration
- Available for high pressure, high temp. high viscosity fluid, dusty environment
- Intrinsic safety and explosion proof
- Measuring range 0.5m~40m
- Wireless supported



### Guided Wave Radar Level Transmitter



#### JTR Series

- 2-wire design with HART communication
- No moving parts and no re-calibration minimizes maintenance.
- Not influenced by medium density, conductivity, temperature, and pressure
- Handles vapor, steam, foam, buildup and turbulence well.
- Suitable for interface level measurement
- Suitable for small tanks, difficult tank geometry, and interfering obstacles
- Local Display for easy on-site installation



### Ultrasonic Level Transmitter



#### EAX Series

- Non-contact operation ensures readings will not be affected by material character (such as pressure, viscosity, density)
- Liquid measuring range max. 50m, Short range 5m available
- Solid measuring range max. 35m, Short range 5m available
- Level, distance, flow volume display function selectable



### Grain Temperature and Level Monitoring System



#### EST Series

- Real time monitoring of temperature. Prevent grain decay or burning
- Strong steel rope design for extra local and long lifespan
- For those silo application per grain, corn, bean, wheat, flour, cement, mining
- Customize measuring position per client's request.

### Paddle Wheel Flow Meter



#### EPR Series

- 128\*64 LCM display, convenient operation
- NPN and PNP pulse output
- 4~20mA analog output
- Wide range of voltage supply
- Integrated FRAM (Ferroelectric random access memory)
- RS485 communication interface, Modbus communication protocol
- Display module can be separated



### Wireless Module Monitoring System



#### JMW Series

- **End Device:** Wireless communication support for transmitter/switch.
- **Router:** Collect/transmit point-point communication data of each terminal among system structure. Increase transmission distance to enhance communication capability of monitoring system.
- **Coordinator:** Enable central control system & MMS to control each wireless device. Retrieve measurement data of each sensor to achieve unlimited measuring purpose.
- **HubLink:** Expand sensor connection by wire/wireless. Max. 4 sets of 4~20mA or RS-485 communication protocol or optional 4 sets of 1W or I/O.

### Flowmeter



#### EPD Series

- Electromagnetic / Coriolis mass / Vortex flowmeters applicable for various fluid detection.
- High accuracy & cost effective.
- Easy installation & min. maintenance.
- Well-established flow rate lab to strengthen quality control.



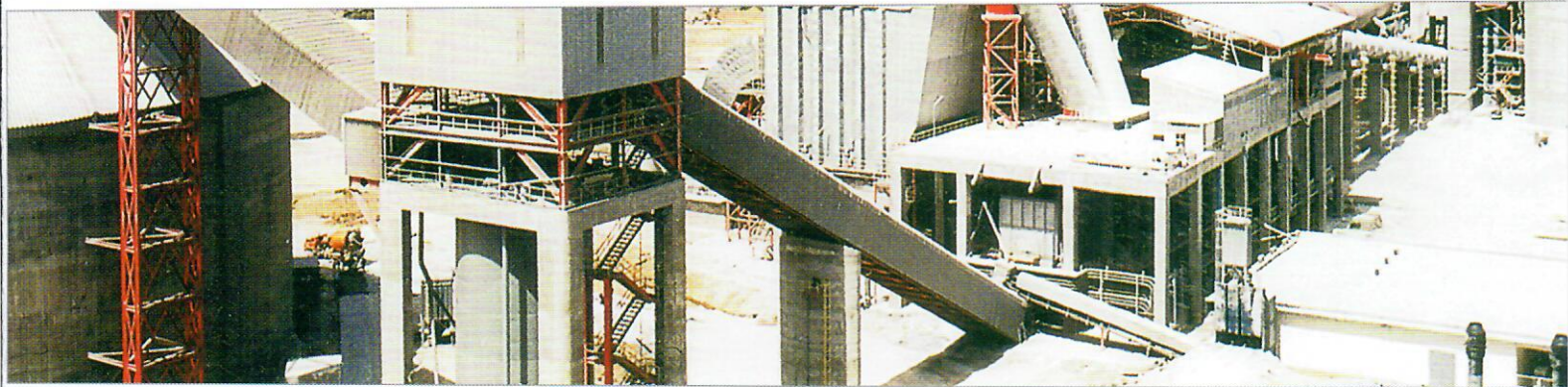
### Material Management System



#### MMS Series

- MMS accumulates tanks data from level instruments that are equipped with RS-485 interface and then data are transmitted to the main computer. Data being transmitted includes Measuring distance, Analogue output setting, Distance / Level, Tank height setting, Zero point setting, High alarm setting, Low alarm setting, Error alarm (plumb buried, cable break), Communication mode setting, Communication ID setting, Baud rate setting, Communication format setting, etc.





### Electromechanical Level Measuring System



#### EEX Series

- Microprocessor based controller
- Standard measuring range of 45m, with maximum of 70m available
- Different types of sensing weights to choose from
- Alarm output for sensing probe buried and probe wire broken condition
- Application:  
ore, clinker, coal, cement, grain, plastic powder, feedstuffs, granule, and any liquid

CE

### Temperature Transmitter



#### TRX Series

- Input signal: mV, V, mA, thermocouple, RTD or Ohm
- Accuracy:  $\pm 0.3\%$  F.S, or  $\pm 1$  digit
- Loop power: 12~32 Vdc
- HART communication protocol

UL CE



### Isolated safety barrier



#### TXX Series

- 1 current input port to connect with continuous current or current output products. Applicable for use in hazardous zone.
- Self-test function for system function monitoring.
- Setting relay output as alarm for optional external sensing unit connection.
- Optional RS-485 interface enables easy system configuration & supply current data retrieve.

CE

### Air Hammer



#### BAH/BVP Series

- Highly strengthened aluminum body
- Low frequency/ continuous impact model, sudden activation/ deactivation is allowed
- Frequency and amplitude of impact can be adjusted as required
- Direct impact onto target object to produce the optimum vibration feedback

CE

### Pneumatic Vibrator



#### BVK/BVR/BVT Series

- Special aluminum alloy, small size, light weight
- Fine enclosure protection can be applied in high humidity dust working area
- Frequency and amplitude of vibration can be adjusted as required
- Low price and durable



### Controller for Dust Collector System



#### AEX Series

- Jet pulse timing of sequential controller: 0~0.2 seconds
- Jet pulse interval: 2~180 seconds
- No switch contact in the circuit, operating life is half-eternity.
- Power supply: 110/220Vac, 24Vdc
- Control points: 10, 20, 40 points

CE

### Speed Monitor



#### EDX Series

- Maximum monitoring range 1~999rpm.
- 7-seg LED display 0~999
- Alarm monitoring: low speed, stop, reverse, blackout and overload
- Start up delay function allow motor to run up gradually
- Alarm delay function to avoid false alarm, which may be caused by temporary slow down or load change

CE



### Safety Cable Pull Switch



#### SRS Series

- Contact rating: 10A/250Vac
- For emergency or normal shut-off
- Pull force: 5Kg

CE

### Diaphragm Valve



#### BRD/BDV Series

- Fast response, large flow volume, good reverse cleaning affect, less air consumption
- Available with 3/4", 1-1/2", 2", 2-1/2", 3" Material: Aluminum, Stainless steel

CE

### Conveyor Belt Misalignment Switch



#### SRT Series

- Contact rating: 10A/250Vac
- For protection of belt conveyors and personnel

CE

### Accessories of Diaphragm Valve for Dust Collector



#### BDB Series

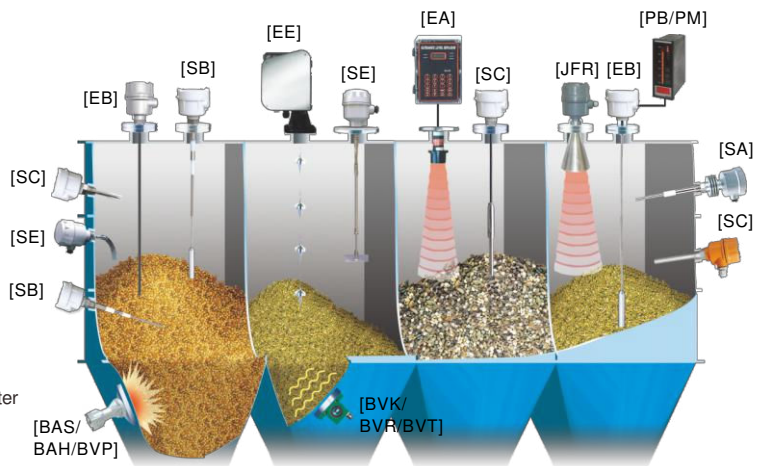
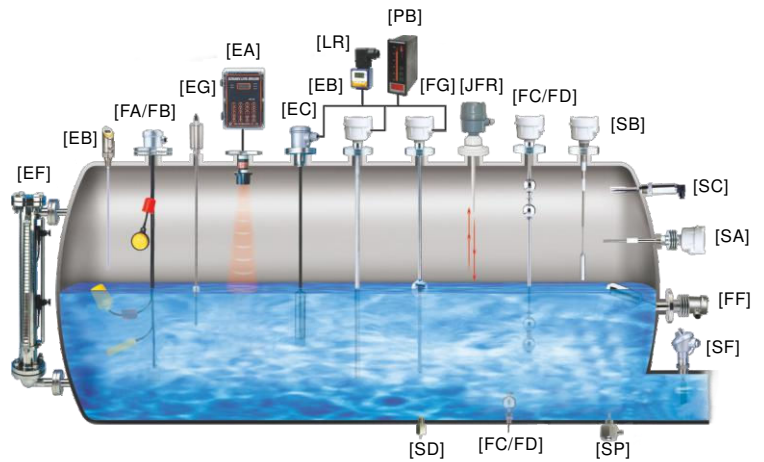
- Connector:**
- Convenient for users to install ash cleaning system on the dust collector
  - Free from welding process during installation, and allows easy removal for maintenance purposes
- Remote Solenoid Enclosure**
- Fluid: Air
  - Diaphragm material: NBR
  - Operation temp.: -20~85°C
- Remote Solenoid Pilot:**

CE



# EXAMPLES OF TANK MOUNTING

- [FC/FD] Mini Float/Magnetic Float Level Switch
- [FG] Magnetic Float Level Transmitter
- [FF] Side Mounting Float Switch
- [FA/FB] Cable Float Level Switch
- [SP] Thermal Dispersion Flow Switch
- [SF] Paddle Flow Switch
- [SD] Optical Level Switch
- [SE] Rotary Paddle Level Switch
- [SA] Capacitance Level Switch
- [EC] Pressure Level Transmitter
- [LR] Loop Power Indicator
- [SC] Vibrating Probe Level Switch
- [SC] Tuning Fork Level Switch
- [EB] RF-Capacitance Level Transmitter
- [SB] RF-Capacitance / Admittance Level Switch
- [EG] Magnetostrictive Level Transmitter
- [EF] By-Pass Level Transmitter
- [MEF] Mini By-Pass Level Transmitter
- [EA] Ultrasonic Level Transmitter
- [JFR] FMCW Radar Level Transmitter
- [EE] Electromechanical Level Measuring System
- [ED] Speed Monitor
- [SRT/SRS] Conveyer Belt Misalignment Switch & Safety Cable Pull Switch
- [PB/PM] Microprocessor Based Bargraphic Display Scaling Meter
- [BRD/AE] Valve and Controller for Dust Collector System
- [BAS/BAH/BVP] Air Hammer
- [BVK/BVR/BVT] Pneumatic Vibrator



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