



TURCK



PRODUCTS

REER
Your future's safe!

CATALOG

Baumer
Passion for Sensors
ALL IN ONE



GIC



pizzato

Authorized Distributor



TURCK

Your Global Automation Partner



DELHI
AUTOMATION SYSTEMS



Inductive Proximity Sensors



Capacitive Sensors



Ultrasonic Sensors



Magnetic Field Sensors



Radar Sensors



Linear Position Sensors



Encoders



Inclinometers



Pressure Sensors



Temperature Sensors



Flow Sensors/Flow Meters



Level Sensors



Condition Monitoring Sensors



TAS

IIoT

IP 69K

IIoT

IP 69K

TURCK

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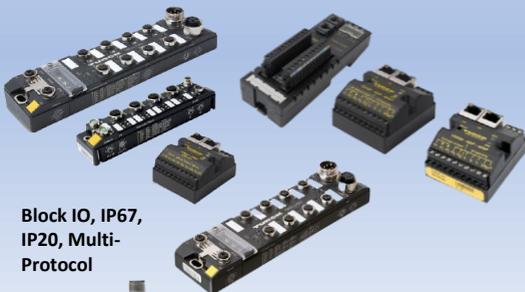
DELHI
AUTOMATION SYSTEMS



Complete RFID Solution HF and UHF(Track And Trace)



**Interface Technology
Signal Isolators
and Signal Amplifiers**



**Block IO, IP67,
IP20, Multi-Protocol**

Inductive Sensors for Rotary Actuators



**CONDITION
MONITORING OF
CONTROL CABINETS**





Your future's safe!



DELHI
AUTOMATION SYSTEMS



Access control barriers with integrated Muting functions

Access control barrier with integrated Muting functions

The new Safegate Type 4 range of access control barriers is the ideal solution for the protection of a vast number of high-risk industrial applications, in particular those requiring a high level of integration of the Muting functions.

Safegate guarantees the perfect integration of all Muting sensors directly connected to the access control barrier.

Access guarding

Exit-only

Entry-Exit

- **Flexible configuration**
Hardware or Software configuration to cover all Muting applications
- **Pre-configured Muting logics**
Exit-only (parallel/crossed),
Entry-Exit (parallel),
Entry-Exit (crossed)
- **Integrated Status and Muting lamp**
- **Fully scalable**
Change configuration at any time
- **New **M^S** multi-beam Muting photocell**
Ideal for sensing unconventional objects
- **Pre-configured and pre-wired Muting arms and Muting brackets**
- **Vast range of accessories**
Including special mounting brackets and floor mounting columns

TRX
TRANSCIEVER

Versions with passive retro-reflective elements



SAFETY LEVEL

TYPE 4

SIL 3 - SILCL 3
PL e - Cat. 4



Industrial Safety sensors

R-SAFE RFID



The RFID technology enables R-SAFE RFID safety sensors to be individually coded in three different ways to allow the appropriate tampering protection in all applications. The highest configurations allow each safety sensor to be paired with one only assigned actuator.



SAFETY LEVEL
Type 4 - PL e - SIL 3
-
SILCL 3 - Cat. 4

IP RATING
IP65 IP67 IP69K

Safelock (SLK)



Safety interlock switch with guard door locking



SAFETY LEVEL
Type 4 - PL e - SIL 3
-
SILCL 3 - Cat. 4

IP RATING
IP67

Incremental Safety Encoder



Incremental SIL 3 Sin/Cos safety encoders The safety Sin/Cos incremental encoder, together with Mosaic, comprise a SIL 3 certified safety function for speed monitoring.



SAFETY LEVEL
SIL 3 - PL e -
SILCL 3 - Cat. 4

IP RATING
IP65 IP67

Magnus MG



Magnetic safety switches for position control of movable guards.



SAFETY LEVEL
PL d / PL e
(with MOSAIC)

IP RATING
IP67

safety photocells sensors



Type 2 single-beam safety photocells sensors. The safety photocells must be connected to SR X control unit or SR XM control unit with Muting or Mosaic to form a protection system that can be composed of many single beam photocells.



SAFETY LEVEL
Type 2 - PL c -
SILCL 1 - Cat. 4

IP RATING
IP67

Measurement and automation light curtains

Beam spacing

5	10	25
30	50	75



Now with
 **IO-Link**

Light curtains for industrial and civil applications where it is necessary to detect, measure, and recognise objects.

Depending on the number and position of the beams engaged by an object, Micron can provide real time information to a PLC or PC in order to: **detect the presence or absence of objects, perform a count, detect a position, detect a shape or a profile, measure dimensions.**

Measure

Count

Detect

Micron A

Ideal for object measurement and detection of dimensional limits

AV (0/10 VDC) analogue output,
AC (4/20 mA) analogue output.

Micron IOL

Ideal for dimensional measurement, detection of object profile and position

Outputs with IO-Link protocol.

Micron B

Ideal for dimensional measurement, detection of object profile and position

RS 485 serial line and two solid state outputs
0/24V with programmable functions.

Micron C

Ideal for piece counting and detection of object presence/absence in the controlled field

Two solid state antivalent outputs 0/24V (ON/OFF) without the need of programming.



Pharma / Packaging

- Format Adjustment
- Cap Detection
- Label Detection
- Print Mark Detection
- Level measurement
- Conductivity measurement

Machine Tool

- Part Detection
- Turret & Spindle Speed Feedback
- Automatic tool changing
- Thickness, Diamater, Distance Measurement
- Pressure , Temprature measurement

Textile

- Speed detection of Shaft & Spindles
- Yarn Bobbin Diemater Control
- Yarn Tension Monitoring
- Yarn Rupture Control
- Cloth Width Control & Position

Material Handling

- Object Detection
- Travel & Angle Measurement
- Speed Feedback
- Level measurement

Motor / Drives

- Speed Feedback
- Position Feedback

Graphic Art

- Format Adjustment
- Precise Positioning
- Copy Counting
- Ink Level Measurement
- Roll Diamater Measurement
- Level Measurement

Crane

- Motor Feedback
- Overspeed Monitoring
- Position Feedback at cable Drum
- Travel Measurement
- Load Overload Measurement

Metal / Steel

- Object Detection
- Thickness Measurement
- Main & Aux Drive Feedback
- Cut to Length Feedback

Wind Industry

- Brake Pad Monitoring
- Rotor Speed Measurement
- Pitch & Yaw Control
- Oil Fill & Leakage Detection
- Generator Speed Measurement
- Blade Strain Measuremen
- Inclination Sensor



Factory automation



Process automation



Further industries

Object detection

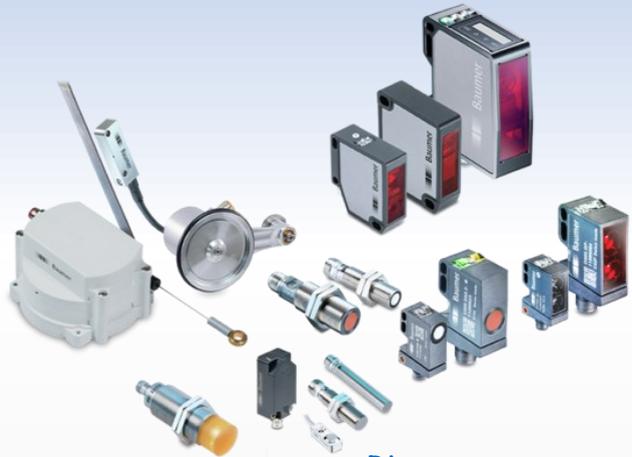


Sensors, proximity switches and light barriers for object and position detection.

- [Inductive proximity switches](#)
- [Light barriers/photoelectric sensors](#)
- [Fiber optic sensors](#)
- [Capacitive sensors](#)
- [Ultrasonic sensors](#)
- [Magnetic proximity sensors](#)
- [Precision mechanical switches](#)
- [Edge measurement and detection](#)
- [Light-band sensors](#)
- [Label sensors](#)
- [Accessories sensors](#)

Sensors for detecting distances and distance information from the μm range to 60 m.

- [Laser distance sensors](#)
- [Ultrasonic distance sensors](#)
- [Radar sensors](#)
- [Inductive distance sensors](#)
- [Linear magnetic encoders](#)
- [Measuring wheel encoders](#)
- [Cable transducers](#)
- [Accessories sensors](#)



Smart Vision Sensors

Distance measurement



Easy handling and implementation of efficient check and control tasks as well as vision-guided robotics.

- [Smart 2D profile sensors](#)
- [VeriSens vision sensors](#)
- [Easy control of Universal Robots](#)

Industrial cameras / image processing



Camera-based inspection, identification and process control.

- [Industrial cameras](#)
- [Software](#)
- [Starter Kits](#)
- [Tools](#)
- [Custom cameras](#)
- [Accessories image processing](#)
- [VeriSens vision sensors](#)

Identification

Reading and evaluation of 1D/2D codes and texts.

- [Multicode Reader IDC200](#)
- [Text reader \(OCR/OCV\) with code reading function](#)
- [Starter Kits](#)
- [Accessories image processing](#)



Measuring and monitoring of rotary speed and rotary shaft positions at machines, installations and electrical drives.

- [Industrial encoders absolute](#)
- [Industrial encoders incremental](#)
- [Bearingless encoders](#)
- [Encoders for synchronous motors](#)
- [HeavyDuty encoders absolute](#)
- [HeavyDuty encoders incremental](#)
- [HeavyDuty tacho generators / resolvers](#)
- [HeavyDuty speed switches / monitors](#)
- [HeavyDuty combinations](#)
- [Programmable encoders](#)
- [Functional safety encoders](#)
- [Real-time Ethernet encoders](#)
- [Rotary encoders for offshore and marine applications](#)
- [Accessories](#)

Rotary encoders / angle sensors



Process sensors



Automation of process technology with transmitters, sensors and measuring equipment for the parameters of pressure, temperature, fill level, flow and conductivity of gaseous, liquid, paste-like and granular media.

- [Pressure measurement](#)
- [Level sensors](#)
- [Flow measurement](#)
- [Liquid analysis](#)
- [Temperature measurement](#)
- [CombiView DFON touch display](#)
- [Accessories process sensors](#)



Force and strain measurement in machines, installations, and tools.

- [Force sensors](#)
- [Strain sensors](#)
- [Measuring amplifiers](#)
- [Customised solutions](#)
- [Cavity pressure sensors](#)
- [Strain measurement in holes](#)

Force sensors and strain sensors



Dew point meters and measurement tools for compressed air and gases



FA 510/515 - Dew point sensor for refrigeration dryers



FA 510/515 - Dew point sensor for adsorption dryers



FA 500 - Dew point sensor with integrated display and alarm relay



FA 550 - Dew point sensor in robust die-cast aluminum housing



FA 515 Ex - Dew point sensor



Details

- Ideal for all types of compressed air dryers with different measuring ranges such as -80...+20°Ctd; -60...+30°Ctd; -20...+50°Ctd
- Maximum pressure 500 bar (special version)
- Analog output 4...20 mA and Modbus RTU (RS 485) interface, contact relay with limit value adjustable via keys (max. 60 VDC, 0.5A)
- Optional: Modbus TCP (Ethernet), Modbus TCP PoE (Ethernet) or M-Bus interface
- Measured values available in different units, pressure dew point [°Ctd], temperature [°C], rel. humidity [%rh], abs. humidity [g/m³], moisture content [g/kg], moisture content V/V [ppmV/V], water vapor partial pressure [hPa], atmospheric dew point [°Ctd.atm]



IAC 500 sensor for measuring ambient conditions

- Monitoring the intake air of compressed air stations
- Monitoring of room air e.g. cold rooms, storage rooms or clean rooms
- The delivery rate of compressors depends on the intake air.



FO 510 - Industrial oil moisture sensor

- Measured variables: Water activity (aw), temperature (t) and water content in PPM (x)
- Fast response time
- Öltemperatur bis 100°C
- Pressure tight up to 300 bar
- Two analog outputs
- Digital Modbus RTU interface
- ISO G ½" or ½" NPT threaded connection



VA 500 - Flow meter for compressed air and gases

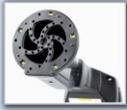


VA 520 - Thermal mass flow meter for flow measurement



VA 525 - Compact Inline flow meter for compressed air and nitrogen

Measuring devices for leak detection and calculation



Ultrasound Camera UltraCam LD 500/510



Leak detector LD 450

- Leak detection on compressed air, gas and vacuum systems
- Door seals
- Robustness and low weight ensure fatigue-free use in industrial environments
- Improved detection of leakages with the acoustic trumpet
- Modern Li-Ion battery with high capacity, external charger
- Minimum operating time 10 h
- Easy operation via membrane keypad
- Adjustable sensitivity

Pressure sensors for compressed air and gas

PTS 500 - for measuring of pressure and temperature



- 2 in 1 sensor: Pressure and temperature
- Modbus-RTU, Ethernet or M-Bus interface
- Optional: 2 x 4...20 mA analogue output, 2 x alarm relays for pressure and temperature

IAC 500 sensor for measuring ambient conditions

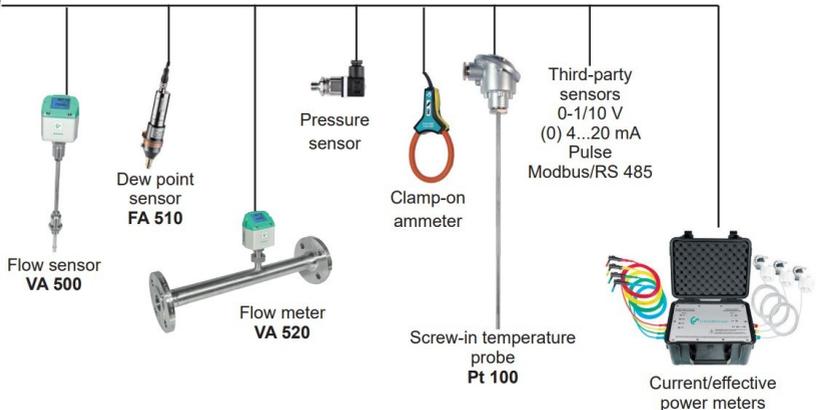


- Monitoring the intake air of compressed air stations
- Monitoring of room air e.g. cold rooms, storage rooms or clean rooms

Differential pressure probe to test filter performance



- Minimizes pressure drops (loss in energy)
- Allows exchange of filter elements according to the differential pressure specifications of the manufacturer (activated carbon filter excluded)
- Ensures maximum performance of the filter elements and thus optimal compressed air quality level over time





Experts in Fluid Measurement Solutions

Flow Meters for Liquids

- Electromagnetic Flow Meter
- Liquid Turbine Flow Meter
- Vortex Flow Meter
- Coriolis Flow Meter
- Ultrasonic Flow Meter

Flow Meters for Gas

- Gas Turbine Flow Meter
- Thermal Mass Flow Meter
- Vortex Flow Meter
- Coriolis Flow Meter
- Gas Roots Flow Meter

Specialize in Flow Measurement
Application and Flow Meter



Temperature Sensors

An infrared temperature sensor (also known as an IR sensor or an infrared sensor) uses a lens to concentrate infrared energy onto a detector, which converts it into an electric signal.

ConTurk infrared temperature sensors have strong anti-interference ability, wide power supply range, polarity protection, etc., in line with ICE, CE (EMC) standards, suitable for temperature detection of liquids and gases, to meet the aviation, military, engineering machinery, automotive industry, air conditioning and refrigeration, and other industrial supporting needs.



EVENT / PRESET / LENGTH COUNTERS : LINE SPEED / RPM INDICATORS



Model: CIPL-EC-1IN-62



Model: CIPL-LSM-4IN-42

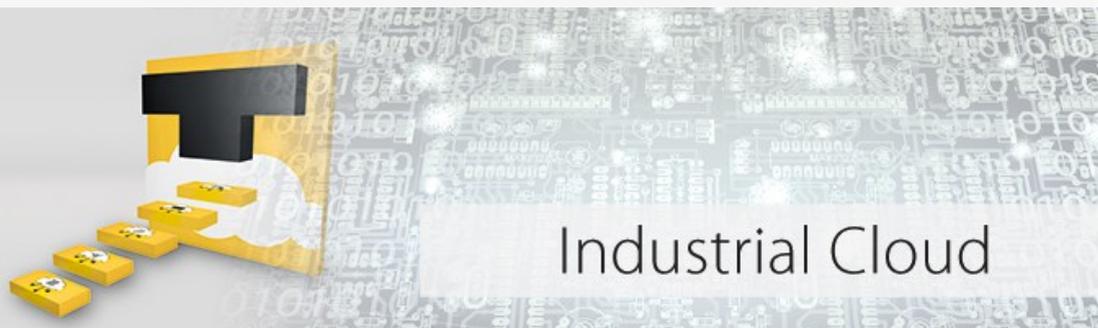


Model: CIPL-EC-4IN-62 / CIPL-PRC-4IN-62

Monitoring System (SCADA, HMI)

Monitoring System (SCADA, HMI)

Internet of Things



Industrial Cloud

Simplify Automation with Renu – Innovative Solutions for Every Layer

◆ HMI

- Easy Interface – Intuitive touchscreens simplify operations.
- Multi-Protocol Support – Integrates with various PLCs/devices.
- Live Monitoring – Real-time trends, alarms, and data logs.

◆ PLC

- Scalable Control – Suits small machines to large systems.
- Fast Execution – Reliable real-time performance.
- Native Ports – Easy RS232/RS485/Ethernet integration.

◆ Android Panels

- Rugged + Smart – Industrial-grade Android interface.
- IoT-Enabled – Supports MQTT, REST APIs, cloud.
- Custom Apps – Run diagnostics, tracking, or control apps

◆ Web Panels

- Browser-Based Access – Operate machines via standard web browsers.
- Platform Independent – Works on any device (PC, tablet, smartphone).
- Secure Connectivity – Supports HTTPS, VPN, and user authentication.

◆ HMI with I/O

- Integrated Solution – Combines display and I/O in one compact unit.
- Cost-Effective – Reduces wiring and panel space.
- Direct Control – Ideal for small machines and stand-alone operations.

◆ Field I/O Modules

- Remote Expansion – Adds digital/analog I/Os flexibly.
- Modular Design – Simplifies system upgrades.
- Reliable Communication – Works over MODBUS/RS485/Ethernet.

◆ Gateways & Protocol Converters

- Protocol Bridging – Connects different networks (e.g., MODBUS to CAN, or legacy to modern systems).
- Seamless Integration – Converts between industrial protocols with minimal latency.
- Plug & Play – Quick setup with compact, industrial-grade design.
- Legacy Support – Enables communication with older equipment using modern interfaces.



One Device Endless Possibilities

Android Panels



Experience unparalleled connectivity and performance on Industrial-grade Android Panels in 7" and 10" versions from Renu Electronics. With connectivity options, Wi-Fi, USB, Bluetooth, and Ethernet, and the possibility to add a camera, voice speaker, and microphone, the applications for this panel can be unique. The supplied rugged fan-less and cost-effective design in IP66 includes an antenna for local or remote visualization and data logging applications. Apart from connectivity to IIoT/IoT applications, it also provides compatibility with SCADA Apps.

Deploy FAST! Compatible APKs/APPs

- Web Browser based apps
- Leading SCADA programs
- Engineering and Asset Management
- Industrial IoT (IIoT)
- Your Android apps

Use Cases

- Industrial Manufacturing: Ideal for process control, remote monitoring of production lines, and managing equipment and machinery.
- Building Management: Suitable for monitoring and controlling HVAC, lighting, security, and access control systems.
- Logistics and Warehouse Management: Provides real-time tracking, inventory management, and order fulfillment functionalities.
- Commercial Applications: Perfect for information kiosks, digital signage, point of sale systems, and interactive learning tools.

Features



High Brightness readable
In Bright Sunlight



Supports
16 Million colors



Wide Operating
Temperature to 60 degC



7" & 10" Capacitive
Touch screen



Unmatched Connectivity
Including Camera and Audio



Digital Timer



- Time Switch FM Series
- Digital Time Switch
- Astronomical Time Switch
- Astronomical Time Switch
- Lighting Automation with Using GSM Technology

- Digital Timer 17.5 mm
- Programmable Digital Timer 48 mm x 48 mm
- Electronic Timer - Series Staircase
- Electronic Timer - Series Micon 175
- Electronic Timer - Series Micon 225
- Motor Control Timers
- Synchronous Timer - Series EM 1000
- Synchronous Timer - Series EM 2000
- Basic Operating Modes / Functions



Hour Meter



- Hour Meter Series HM 36
- Digital Hour Meter & Counter
- Digital Hour Meter
- Impulse Counter Series CR 18
- Impulse Counter Series CR 26
- Impulse Counter Series CR 36
- Digital Counters

Programmable Logic Controllers



- Programmable Logic Controllers
- Smart Relay
- GSM Controller

PROTOCOL CONVERTERS

- Serial protocol support for Modbus (RTU and ASCII) Master/Slave
- Network protocol support for Modbus TCP (Server/Client)
- Supports Raw Serial to Ethernet conversion with Telnet RFC2217
- Serial Interface support for RS232, RS422 and RS485 network
- Serial Baud rate: 300 bps to 115.2 Kbps
- Ethernet interface support: 10/100Mbps with Auto Negotiation
- Network Protocols: ARP, TCP/IP, HTTP, BOOTP, TFTP, ICMP, TELNET, DHCP, AutoIP



INTERFACE CONVERTERS

USB to RS232 / RS485 / RS422 Converter
RS232 to RS485 / RS 422 Converter

- Compatible with USB 2.0
- Input : USB 2.0 Protocol
- Output : RS232 on DB9 Male connector compatible to PC RS485/RS422 on terminal block.
- Communication Speed : 300bps to 230Kbps.
- Auto direction control for RS485- 2W data transmission.
- Cable: USB 2.0 type A to type B cable.



POWER SUPPLIES



- Output Current- 0.5 A 1 A 2.5 A 4 A 4.5 A 6 A 6.5 A**
Output Voltage- 10 VDC 12 VDC 24 VDC 24VDC 5 VDC
- Excellent Load & Line Regulation
 - High Noise Immunity & Low Ripple
 - No Load Power Consumption of less than 0.5W
 - Overload & Short Circuit Protection
 - High Efficiency of Operation
 - Suitable for Temperatures upto 55°C
 - Small Form Factor • Peak Power Capacity
 - Compact Design with DIN Mounting



Switched Mode Power Supply - DIN Mount / Panel Mount
PS100W24V : 100W, 90 - 264 VAC/130 -373 VDC, 24 VDC/ 4.5A, PS150W24V
PS150W24VF : 150W, 85 - 132 VAC/170 - 264 VAC, 24 VDC/ 6.25A,

MONITORING DEVICES



- Current Monitoring
- Earth Leakage
- Frequency Monitoring
- Level Monitoring
- Phase Indicator
- Temperature Monitoring
- Voltage Monitoring

HUMAN MACHINE INTERFACE (HMI)

- 4.3" TFT Display, 24VDC, 2 Serial ports*(1 RS232/RS485, 1 RS422/RS485), 1 USB Slave, 1 USB Host
- 7" TFT Display, 24VDC, 2 Serial ports*(1 RS232/RS485, 1 RS422/RS485), 1 USB Slave, 1 USB Host
- 10" TFT Display, 24VDC, 2 Serial ports*(1 RS232/RS485, 1 RS422/RS485), 1 USB Slave, 1 USB Host



SIGNAL TRANSDUCERS



- Input / Output configuration selected via DIP switch combinations
- Choice of multiple analog input-output configurations
- Provides 3-way galvanic isolation of 3.75kV
- Fast output Response Time (<100ms)

Ordering Information

- 25C3D11CC3 Signal Transducer, 24 VDC, 1 Input & 1 Output, Voltage & Current, 3 Port Isolation, Base / DIN, Input Signal: 0-10 VDC, 2-10 VDC, 0-20 mA, 4-20 mA
- 25C3D11DC3 Signal Transducer, 24 VDC, 1 Input & 1 Output, Voltage & Current, 3 Port Isolation, Base / DIN, Input Signal: 0-5 VDC, 1-5 VDC, 0-20 mA, 4-20 mA
- 25C3D11EC3 Signal Transducer, 24 VDC, 1 Input & 1 Output, Voltage & Current, 3 Port Isolation, Base / DIN, Input Signal: 0-10 VDC, 2-10 VDC, 0-10 mA, 2-10 mA

PID Temperature Controller



- PID Temperature Controller Series PR 69
- Size- 35.5 mm 48 X 48mm 48x48x65mm 48x48x80mm 96 X 96 mm
- Sensor Input- J,K, RTD J,K,E,S,B,R,RTD , mV signal J,K,T,R,S & PT100 J,K,T,R,S,C,E,B,N,L,U, PT100, mV J,K,T,R,S,PT100 & mV RTD

Process Indicators/RPM Indicator



Features

- Flush Mounting Version 96X48 mm with 7 segment display
- Thermocouple (J, K, T, R & S) / RTD 3-wire (Pt-100) sensor inputs
- Analog Inputs (0-10 VDC / 0-20mA / 4-20mA), mV (Linear) - 5 to 56mV
- Alarm Outputs, Analog (0-20mA/ 4-20mA or 0-10V/ 0-5V) & Relay
- Configurable Band, Deviation Alarms
- °C & °F temperature unit selectable
- Short depth of 65 mm • RS 485 Communication • IP 20 (For terminal and enclosure) & IP 55 (For Front Panel only)

slim Relays



Slim Relays

- Compact 6.2 mm slim design
- Variety of Operating voltages (24 VDC, 24 VAC/DC, 120 VAC/DC, 230 VAC, 230 VAC/DC)
- Output Relay: 1 C/O for high switching current up to 6A at 250VAC
- All sockets with LED for relay status

Cat. No. Description

- SR24D61RM Slim Relay Module with Plugin Relay 24VDC, 1 C/O DIN Mount, Pack of 10nos
- SR24U61RM Slim Relay Module with Plugin Relay 24VAC/DC, 1 C/O DIN Mount, Pack of 10nos
- SR120U61RM Slim Relay Module with Plugin Relay 120VAC/DC, 1 C/O DIN Mount, Pack of 10nos
- SR230A61RM Slim Relay Module with Plugin Relay 230VAC, 1 C/O DIN Mount, Pack of 10nos
- SR230U61RM Slim Relay Module with Plugin Relay 230VAC/DC, 1C/O DIN Mount, Pack of 10nos

Alarm Annunciators



- Standard models available from 2 to 48 windows
- Choice of 3 window sizes and 6 different window colours
- Optically isolated fault inputs with wide fault input voltage range (12 - 240V AC/DC +/-10%)
- Field selection for NO / NC fault input contacts, grouping of alarms, window size configuration
- Space saving due to lower depth of only 100mm
- Integral push buttons for Test, Acknowledge, Mute and Reset operations
- Four SPDT relay outputs (2 for grouping, 1 for external hooter, 1 for ring back sequence)
- 7 Field selectable operation sequences as per ISA standard
- Integral buzzer for audible alarm output of 80 dB
- Communication interface with RS485 Modbus RTU protocol
- Replaceable LEDs, Fast Scan, Manned /Unmanned, Supervisory Relay & Supply fail annunciation available

**Safety
Devices**



**Position
Switches**



**Lift
Devices**



HMI



Full range of safety devices

- Safety switches with separate actuator
- Magnetic safety sensors
- Safety sensors with RFID technology
- Safety switches for hinged doors
- Safety switches with separate actuator and lock
- Safety handles
- Rope safety switches
- Single function safety modules
- Multifunctional safety modules



Complete range of safety relays

- Standard safety relays
- Programmable safety relays up to 40 inputs / 8 safety outputs

Specialist in position switches

- Up to IP69K
- 20 millions operation cycles
- Many actuators available
- Up to 17 contact blocks available
- Low temperature up to -40°C
- High temperature up to $+180^{\circ}\text{C}$
- ATEX version
- Modular solutions



Manufacturer of a complete and modern product range for

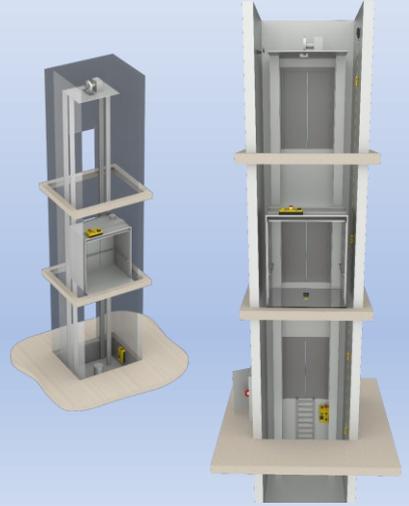
HMI



- Single foot switches
- Modular foot switches
- Buttons
- Emergency buttons
- Selectors
- Contact blocks
- LED units
- Sockets
- Indicators
- Potentiometers
- Joysticks
- Enclosures



One of the main players in LIFT applications



NS series safety switches with solenoid and RFID technology



ST G series safety sensors with RFID technology



By-pass device with VG GG guard

NG series safety switches with RFID technology and pushbuttons



Control stations for lifts EL AD series – Standard and with reduced 60 mm height

LK S lock-out device for NS series



New safety handles P-KUBE Krome series



Voltage Regulator with Precision (VRP)

A journey into the VRP's inner and outer world

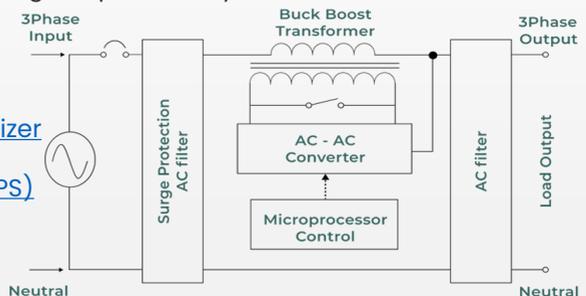
TSi Power's IGBT-based PWM Static Voltage Regulator with Precision (VRP) ensures continuous seamless voltage correction with stability amid grid problems and circuit disruptions.



Introducing our Three-Phase VRP Series, offered in sizes from 3KVA up to 300 KVA with 6KVA to 300KVA available in the $\pm 13\%$ model, 160KVA to 200KVA available in the $\pm 18\%$ model, 3KVA to 130KVA available in the $\pm 20\%$ model and 6.5KVA to 120KVA available in the $\pm 26\%$ model. This series boasts remarkable power efficiency, ranging from 95% to over 97% during voltage regulation and even higher during normal voltage conditions.

Core features/benefits of the products

- It offers a static design with no moving parts.
- It delivers step-less voltage correction.
- There's instant real-time, precision voltage correction.
- It has efficient voltage sag elimination.
- It offers an effective suppression of surges and spikes.
- It eliminates voltage overshoot during the mains cycle.
- Outstanding load compatibility is available.
- It delivers exceptional handling of regenerative loads while maintaining stability
- It utilizes the built-in fast automatic AC-AC Converter bypass system in case of a fault condition.
- It has a smooth and soft switch-on.
- It offers effortless servicing and installation with a plug-and-play functionality.
- Its exceptional reliability combines high dependability with extreme cost-effectiveness.



- [Static Voltage Stabilizer \(VRP\)](#)
- [Healthy Phase selector-cum-stabilizer \(HPS\)](#)
- [Neutral Provider-cum-Stabilizer \(NPS\)](#)
- [Deep Sag Corrector \(SF Cube\)](#)

Voltage Regulator with Precision (VRP)



Discover our Single-Phase VRP Series, with standard sizes available from 1KVA up to 15 KVA available in the $\pm 20\%$ and 3KVA to 10KVA in the $\pm 26\%$ model. Higher sizes upto 100 KVA can also be made available upon request. This series is known for its impressive power efficiency, achieving 95% to 96% during regulation and surpassing that under normal voltage conditions.

HAPS Static Voltage Regulator with Precision (HAPS VRP)

Presenting our Three-Phase HAPS VRP Series, offered in capacities from 3KVA to 50KVA in a $\pm 20\%$ model. This series stands out for its outstanding power efficiency, achieving levels of over 96% during voltage regulation, and even higher under normal voltage conditions.



NPS Static Voltage Regulator with Precision (VRP)

Presenting our Three-Phase NPS VRP Series, featuring capacities of up to 160 KVA. With 6kVA to 160kVA offered in the $\pm 13\%$ model, 3kVA to 130kVA offered in the $\pm 20\%$ model, and 6.5kVA to 75kVA offered in the $\pm 26\%$ model. This line showcases exceptional power efficiency, with levels ranging from 95% to well beyond 97% during voltage regulation, and even higher under normal voltage conditions.



Sag-Free Fluctuation-Free - SFCube

Allow us to present our Three-Phase SFCube Series, available in sizes from 6KVA up to 30KVA. This series offers impressive power efficiency of around 95% even when handling sag of up to 50% of nominal voltage.



Ono Sokki is a leading manufacturer of **sound and vibration measurement** instruments and sensors, established in 1954 in Japan. With over 70 years of experience, it has become a trusted name in the industry, providing high-quality and reliable solutions for noise and vibration measurement. Their commitment to quality and innovation is reflected in their advanced technology and calibration methods, ensuring that their instruments provide accurate and consistent measurements. They offer a wide range of instruments, including **sound level meters**, vibration meters, **FFT analyzers**, vibration analyzers, and acoustic cameras, as well as a variety of sensors and accessories.



High performance Sound Level Meter LA-7000 series

LA-7700 Sound level meter Class 1

Measurement frequency range: 10 Hz to 20 kHz
Measurement level range (JIS, IEC) A: 20 to 128 dB
Self-noise level A: 12 dB or less

LA-7500 Sound level meter Class 1

Measurement frequency range: 10 Hz to 20 kHz / 1Hz to 20 kHz
(When ultra low frequency sound measurement function available*)
Measurement level range (JIS, IEC) A: 24 to 138 dB
Self-noise level A: 16 dB or less

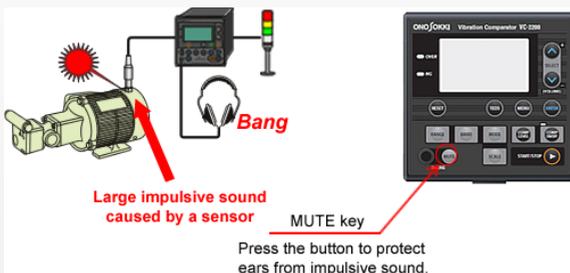
LA-7200 Sound level meter Class 2

High function type for measurement of environmental noise

Measurement frequency range: 10 Hz to 8 kHz
Measurement level range (JIS, IEC) A: 23 to 138 dB
Self-noise level A: 17 dB or less

Vibration Comparator VC-2200/3200

The VC-2200/3200 is a Vibration comparator which is used for maintenance and constant monitoring of production facilities with high accuracy, high function, and low cost in a single unit.



- **Inspection of motors before delivery (inspection of abnormality)**
- Inspection of pumps before delivery (inspection of rattling/abnormal sound)
- Inspection of compressor (inspection of abnormal sound)
- Inspection of chipped resin gear teeth
- Inspection of a nick on gear boxes
- Detecting nicks on a gear at the inspection before delivery
- Inspection of engines before delivery (Inspection of knocking / abnormal sound)
- Detection of abnormal sound of steering pumps
- Inspection of rattling from washing machines

FFT Analyzer (standalone)/ FFT Comparator



The CF-9200A and CF-9400A are an all-in-one portable FFT analyzers. All FFT analysis operations can be performed with the integrated hard keys and capacitance type touch panel without requiring an external PC for analysis. The new, exclusively developed 100kHz high-performance analysis front-end system incorporating a 24-bit A/D converter enables easier and more reliable analysis of noise and vibration generated by plant lines, pumps, motors, automobiles, railway vehicles, home electrical appliances and devices, and electrical and electronic parts than previous models. The CF-9200A and CF-9400A also offer solutions for field workers in their FFT analysis, including the resonance and frequency characteristics of mechanical structures in a vibrating environment with electromagnetic vibrators and impulse hammers.

Overview of Digital Tachometer

Rotation Detector



Tachometer



Handheld Tachometer



Massflow measurement system



Volumetric Flow Detectors FP-5000 series
Fuel density Meter FD-5110



Digital Flow Meter FM-3100

Volumetric flow measurement



Volumetric flow Detector



Flow Meter

On-board flow measurement

FP-4135
On-Board
Volumetric
Flow Detector

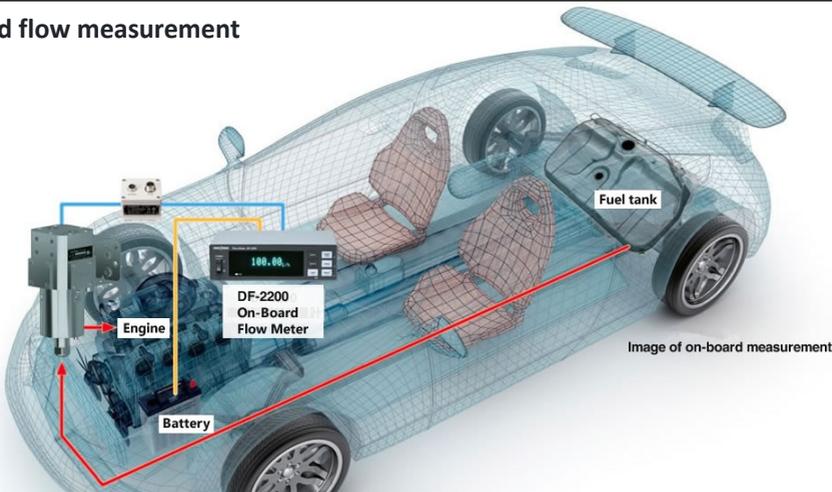


Image of on-board measurement

Digital Linear Gauge



Basic type
GS-1713A/1730A
10 μ m resolution

GS-1813A/1830A
1 μ m resolution

High resolution type
GS-3813B/3830B
0.1 μ m resolution

• **DG-5100**
[Digital Gauge Counter for GS-3800 series \(click\)](#)

Digital Linear Gauge Baby sensor
BS-1210 (10 μ resolution)

BS-1310 (1 μ resolution)



Digital Gauge Counter DG-5100



DG-4320



DG-4340
(with comparator function) *

Digital Gauge Counter
DG-4320
DG-4340
with comparator function



Inductive sensors



Cam
Switches



Photo sensors



Ultrasonic sensors



Pressure sensors



Magnetic Encoders

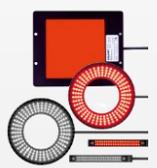
Magnetostrictive position measuring Systems (LVDT)



RFID SOLUTION (HF AND UHF)



Position Indicators

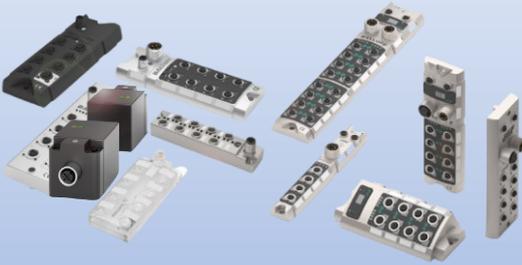


Machine Vision



BarCode Scanner

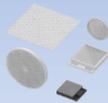
Network blocks/ IO Blocks/ IO Link/IO Hub



Supported Protocols



Inductive Couplers



Mountings and Stands



Connectors and Cables, Single Ended, Double Ended, Y-splitters, T-Splitters

Weld-immune Metal Head Proximity

Dia-M8, M12, M18, M30



High Pressure Inductive Sensors



IO-Link Sensors



Regular Proximity

Size- M6.5, M8, M12, M18, M30

Miniature Proximity

Dia-M3, M4, M5, M6.5, 5X5

IP69K Metal Head Proximity Dia-M4, M5, M8, M12, M18, M30



High Temperature Sensors

Small Size Proximity



Chips Immune Proximity Sensors



DOUBLE-SHEET Inductive Proximity Sensors



Analog Proximity Sensors





Laser sensors
Colour Sensors
Laser Distance Sensors
Contrast Sensors



Photo Sensor Square Type/IR/RED
LED/Transparent Object detection
Diffuse, Background suppression,
Reflex Through-beam.



Cylindrical Photo sensors
Diffuse, Background suppression,
Reflex Through-beam.



Measuring Grid and
Detection Grid with
Digital /Analog Output



SAFETY LIGHT CURTAINS
SAFETY DOOR SWITCHES
SAFETY RELAYS



Fork Sensors
10mm, 20mm, 30mm,
40mm,50mm, 80mm, 100mm,
120mm



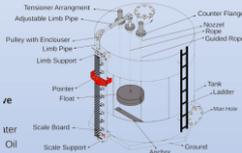
**ACCESSORIES FOR SENSORS AND
SAFETY LIGHT CURTAINS**



SENSOR TESTER

Floater & Board Type Level Indicator

- Application Temperature Range : Up to 100° C
- Adjustable Horizontal Pipe (500 to 1000 mm)
- Wetted Parts : SS 316



Vibrosonde: Vibrating Rod Type Level Sensor for Solids

- Application Temperature Range: up to 200° C
- Outputs: DPDT Relay, Open Collector PNP Output
- Probe Length: 255 to 3000 mm



Elixir-T-Uni: Tuning Fork Level Sensor for Liquids

- 1.Application Temperature Range: Up to 150° C
- 2.Compact probe length: 68 mm, 126 mm & up to 1000 mm



Coat-Endure: RF-Admittance Level Switch for Sticky Solids and Liquids

- Application Temperature Range : up to 250° C
- Outputs: DPDT Relay, Open Collector PNP Output
- Probe length: 65 mm to 1500 mm



Capvel-FUEL: Level Sensor/Transmitter for remote tracking of fuel

- Application Temperature Range : 20 to 70° C
- Probe length: 100 mm to 1500 mm



SLA: RF Admittance Type Level Sensor with Buildup immunity

- Universal Power Supply: 18-55 V DC & 90-265 V AC
- Application Temperature Range: Up to 1000° C
- Output: 1 & 2 SPDT Relay
- Remotely mounted electronics upto 15 m

SLC Series- Capacitive Level Sensor/Switch for Bulky Solids

- Universal Power Supply: 18-55 V DC & 90-265 V AC
- Application Temperature Range : Up to 350° C
- Outputs Options: 1/2 SPDT Relay & Pump Control Logic
- Probe length: 100 mm to 10m



Orbit: Rotating Paddle Level Sensor for Solids

- Universal Power Supply: 90-265 V AC & 24-55 V DC
- Application Temperature Range : up to 200° C
- Outputs: DPDT Relay, SPDT Relay



CAPVEL ICT- Capacitance Level Transmitter for Liquids & Slurries

- Power Supply: 9-30V DC
- Application Temperature Range: Up to 350° C
- Output: 4-20mA, Modbus-RTU (RS-485)
- Rod Probe up to 3.5m & Rope type probe for 1m to 15m
- Process connection: Screwed, Flange & Tri-Clamp
- Probe length: 100 mm to 15m
- Certifications: Flame Proof IIC & IP65 Housing



Heater Panels



Hyd. Press Machines Panels

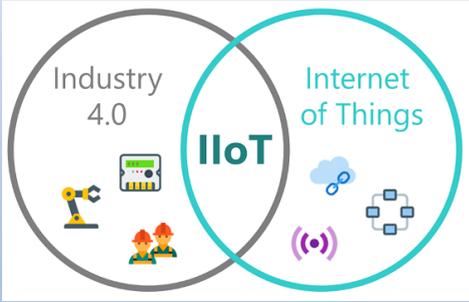


Baumer Vision Solutions



Motor and SPM Panels

Remote Live Data Monitoring

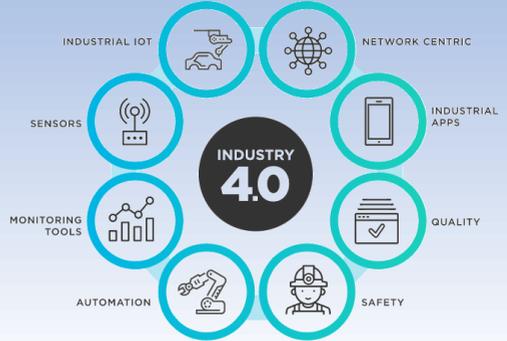


ConTurk is an Industrial IOT platform.

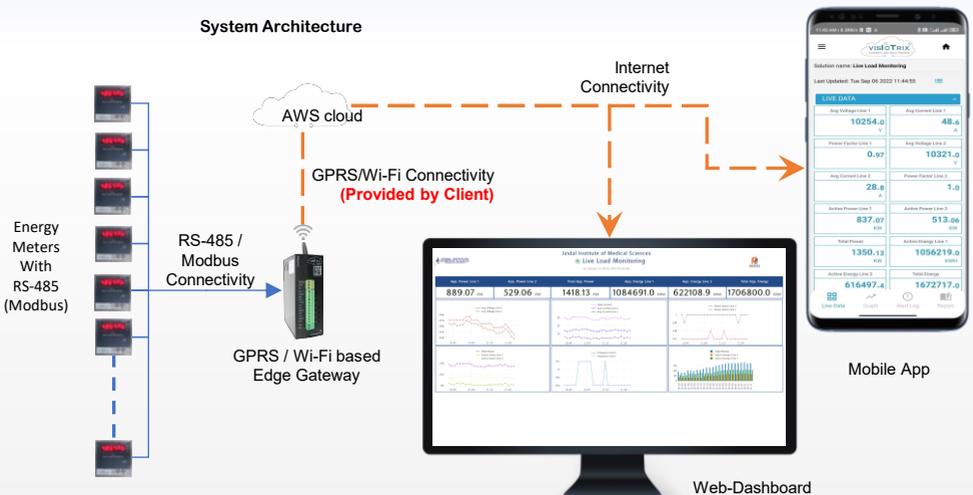
ConTurk Hardware and software designed to keep in view to connect every kind of industrial application.

All products designed based on the theme of industry 4.0

Login Window



System Architecture

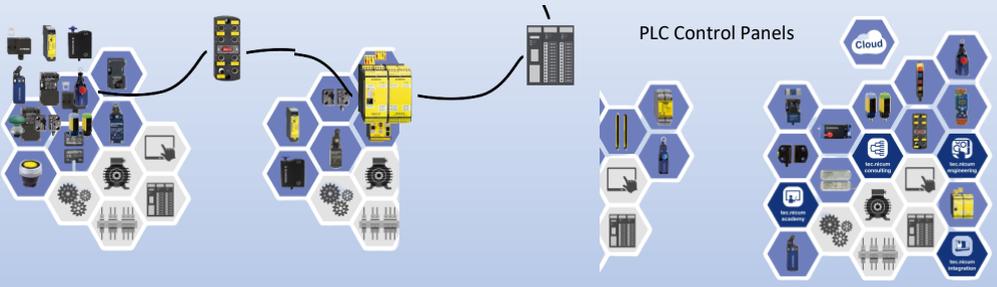


User Can be add or remove

Dashboard View of all data

Email, SMS alerts Possible

Reports in Excel and PDF



Kübler
pulses for automation



SELEC
Creating Best Value



PLC Control Panels

LIFTKIT

Benefits

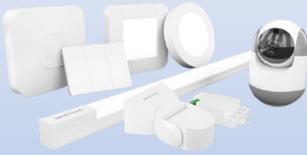
- Extend cobot operating range to increase productivity and save costs.
- Plug-and-play solution compatible with virtually any robot brand (according LIFTKIT's specifications payload, dynamic & static moment)
- No hardware/software upgrades required
- Direct positioning access within the robot control environment (where available)
- Vibration-free movement
- High positioning precision
- Compatible with several palletising software such as Pally
- Compatible with VISUAL COMPONENT software



Features

- Approved positioning axes for Universal Robots, Omron, Techman, FANUC collaborative robots
- Directly recognised by Pally software as lifting solution
- Ready-to-use complete system
- Robust column design for industrial use
- Silent operation
- High stiffness





Motion Sensors and Lightings



Remote Jumbo Displays



All Types of PLC
Programming Support

DELHI AUTOMATION PRODUCTS RANGE :-

- Ø **Sensor** :- Photo, Photoelectric, Inductive, Proximity, Capacitive, Magnetic, Ultrasonic Sensor, Signal Converter Radar, Safety Barrier, Process Automation & Factory Automation,
- Ø **Automation** :- PLC SCADA, HMI, I/O Module, PID Controller, Temp Controller, SSR, Timer, Counter & Scanner
- Ø **Encoders** :- Rotary Encoder, Incremental & KUBLER Encoder
- Ø **Recording** :- Data Logger, Chart Recorders and Paper Less Recorders.
- Ø **Control** :- Single Channel Controller, Multi-Channel Controller, Program Controller, Panel Mounting Thermostats,
- Ø **Drives** :- Electrical AC DC Drive & Servo Drive, Power quality Analyzer also.
- Ø **Pneumatics** :- Solenoid Valve & Coil, Cylinder, Air filter Regulator, Booster.
- Ø **Humidity (HVAC)** :- RH+T Transmitter, Humidity Transducers, Clean Room Indicator and measuring Probes.
- Ø **Electrical** :- Electrical Panel, Voltmeter, Ammeter, CT Relay, Transducers, Signal Isolator, Annunciator & Power Supply (SMPS).
- Ø **Testing & Measuring** :- Multi meter, Clamp meter, Earth Tester, Meager, Calibration Instruments.
- Ø **Pressure Instruments** :- Pressure Gauges, Switches, Sensors and Transmitters DPG & DPT.
- Ø **Temperature Instruments** :- Temp Gauges, Switches, Sensors and Transmitters including RTD's and Thermocouples.
- Ø **Level Instruments** :- Gauges, Switches, Indicator, Cable Float Switches, Transmitters & Rotameters
- Ø **Flow Instruments** :- Flow Meters, Electromagnetic, Ultrasonic and Transmitters

Deals In:

- ✉ Turck India Automation Pvt Ltd.
- ✉ ReeR India Pvt Ltd.
- ✉ General Industrial Controls Private Limited
- ✉ Baumer India Pvt. Ltd.
- ✉ Ono Sokki India Private Limited
- ✉ Pizzato Elettrica
- ✉ CS INSTRUMENTS gmbh & co. Kg
- ✉ Renu Factory Automation
- ✉ ConTurk India Pvt. Ltd.



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