TURCK

IN-LINE FLOW CONTROLS FCI *compact*

IDEAL FOR MONITORING LOW FLOW RATES

Bitte senden Sie mir Unterlagen:

Sensortechnik
- ❑ Induktive Sensoren
- ❑ Induktive Sensoren für Schwenkantriebe
- ❑ *uprox*® induktive Sensoren
- ❑ Kapazitive Sensoren
- ❑ Magnetfeldsensoren
- ❑ Opto-Sensoren
- ❑ Geräte für den Personenschutz
- ❑ Ultraschall-Sensoren
- ❑ Strömungswächter
- ❑ Druckwächter
- ❑ Temperaturwächter
- ❑ Linearweg-Sensoren
- ❑ Drehweg-Sensoren
- ❑ Steckverbinder
- ❑ CD-ROM Sensortechnik

Interfacetechnik
- ❑ Interfacetechnik im Aufbaugehäuse
  - – Bauform *multimodul*
  - – Bauform *multisafe*®

  Allgemeine Informationen
- ❑ Interfacetechnik auf 19"-Karte
  - – Bauform *multicart*®
- ❑ Miniaturrelais, Industrierelais, Zeitwürfel, Sockel
- ❑ Zeit- und Überwachungsrelais
- ❑ Ex-Schutz – Grundlagen für die Praxis (Übersichtsposter)
- ❑ CD-ROM Interfacetechnik

Feldbustechnik
- ❑ *busstop*®-Feldbuskomponenten
- ❑ Bussystem *sensoplex*®*2*
- ❑ Bussystem *sensoplex*®*2Ex*
- ❑ Bussystem *sensoplex*®*MC*
- ❑ Bussystem AS-Interface®
- ❑ Bussystem DeviceNet™
- ❑ Ethernet Netzwerkkomponenten
- ❑ BL20 I/O-Busklemmensystem
- ❑ Bussystem FOUNDATION™ fieldbus
- ❑ Bussystem PROFIBUS-DP
- ❑ Bussystem PROFIBUS-PA
- ❑ Bussystem *piconet*®
- ❑ Bussystem *excom*®
- ❑ .....

Please send me more information:

Sensors
- ❑ inductive sensors
- ❑ inductive sensors for rotary actuators
- ❑ *uprox*® inductive sensors
- ❑ capacitive sensors
- ❑ magnetic-field sensors
- ❑ photoelectric sensors
- ❑ machine safety equipment
- ❑ ultrasonic sensors
- ❑ flow controls
- ❑ pressure controls
- ❑ temperature controls
- ❑ linear position sensors
- ❑ rotary position sensors
- ❑ connectors
- ❑ CD-ROM Sensors

Interface technology
- ❑ devices in modular housings
  - – *multimodul* style
  - – *multisafe*® style

  general information
- ❑ devices on 19" card
  - – *multicart*® style
- ❑ miniature relays, industrial relays, time cubes, sockets
- ❑ programmable relays and timers
- ❑ explosion protection – basics for practical application (overview poster)
- ❑ CD-ROM Interface technology

Fieldbus technology
- ❑ *busstop*® fieldbus components
- ❑ bus system *sensoplex*®*2*
- ❑ bus system *sensoplex*®*2Ex*
- ❑ bus system *sensoplex*®*MC*
- ❑ bus system AS-Interface®
- ❑ bus system DeviceNet™
- ❑ Ethernet network components
- ❑ BL20 I/O bus terminal system
- ❑ bus system FOUNDATION™ fieldbus
- ❑ bus system PROFIBUS-DP
- ❑ bus system PROFIBUS-PA
- ❑ bus system *piconet*®
- ❑ bus system *excom*®
- ❑ .....

FAX-ANTWORT/FAX REPLY

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HIGH-SPEED FLOW RATE MONITORING

When monitoring flows in process installations, it is generally of great importance to detect variations of the flow rate with as little delay as possible.

The new TURCK series of flow controls features excellent response times which have not yet been achieved by calorimetric flow controls until today.

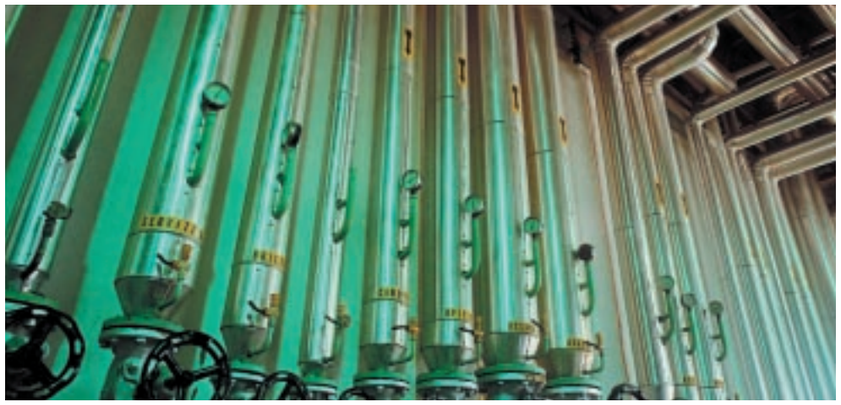
FCI *compact*
The flow sensor can be used for detection of liquids and gaseous media. Available output configurations include versions with transistor, switching, relay or analogue output (4...20 mA)

- Ideal for low flow rates of 50 to 6000 ml/min
- Optimally suited to applications involving pulsing or periodic flow rates due to a response time of less than 1 second
- Robust and compact PBT housing; all parts in direct contact with the medium are made of stainless steel (1.4571/AISI 316TI)
- Simple adjustment of the switch point and monitoring range via potentiometer
- Flow status display via an LED chain
- An inexpensive alternative to magnet-inductive flow meters

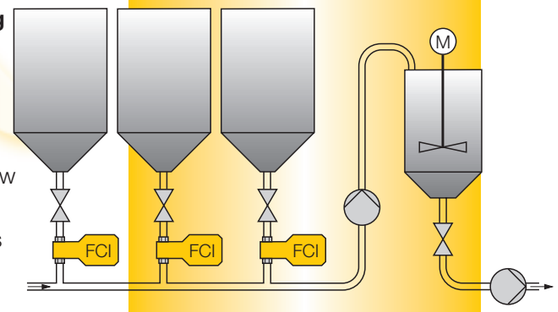
Simple device configuration
- Simple adjustment of the switch point and monitoring range via potentiometer
- Flow status display via a highly visible LED chain

Variable output functions
- Binary output for setpoint monitoring, relay or transistor versions
- 4...20 mA analogue output for continuous flow volume monitoring
- Pulse output for detection of periodic flow pulses

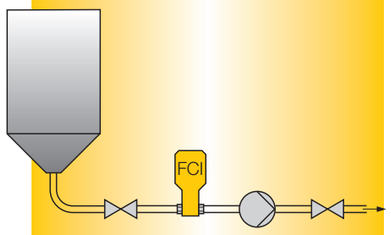
Flexible application
- For all non-explosive liquids and gases
- Various internal diameters for optimum adjustment to the flow volume
- Special materials for aggressive media on request
- Threaded, flange or hygienic connections for the food and pharmaceutical industry.

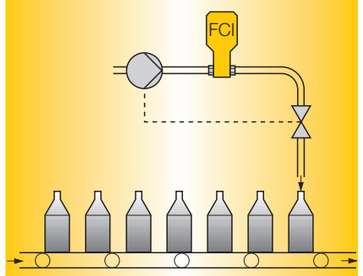


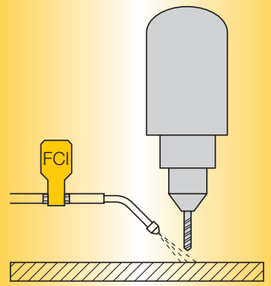
Dosage rate monitoring
Many liquid proportioning applications are timing dependent.
The **FCI *compact*** monitors the contstant flow during proportioning procedures and thus ensures identical flows. With its excellent response time, the sensor is perfectly suited to applications involving short proportioning intervals.



Flow monitoring in filling systems
To meet the requirements of quality assurance in filling lines, it must be assured that the dosage rate is always the same during the filling procedure. This is reliably monitored by the **FCI *compact***.
If an FCI with analogue output is used, even minor deviations of the filling volume can be detected.







Run-dry protection of pumps
If the monitoring task involves detection of whether the pump is actually delivering the medium, monitoring of the pump's feed pressure is not sufficient. The **FCI *compact*** monitors the actual flow rate and indicates a change in the flow speed. Pump systems are securely run-dry protected. Repair or replacement costs and system down-times are eliminated.

Monitoring of cooling circuits
During lubrication and cooling of tools and installation components the constant flow of cooling and lubricating agents has to be monitored to avoid damages.
The **FCI *compact*** immediately registers missing flows and signals the need to shut-down machines and systems.