

Sensors and Systems for all Applications



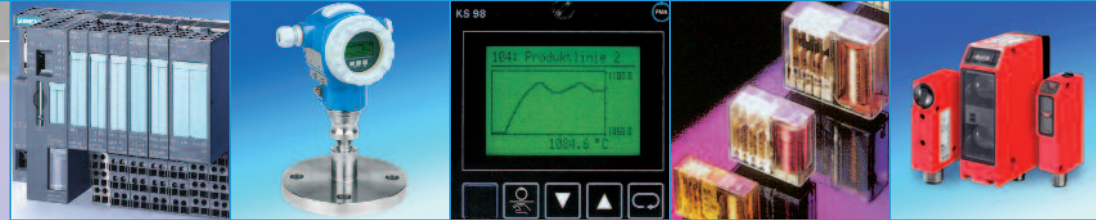
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Systems and Components
for Automation



Engineering



Manufacturing



Distribution



Man-machine interface,
Industrial computer



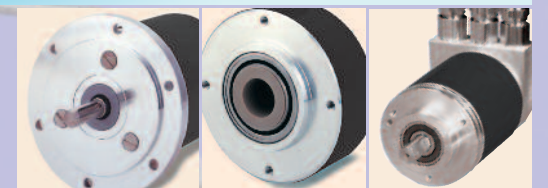
German engineering company, manufacturer and distributor of systems and components for the automation, machine building and process control industries.



Flow, conductivity, pH sensors



Incremental and absolute encoder



Push buttons



Inductive sensors
Capacitive sensors



Vibration
limit detection



Electromagnetic flowmeters



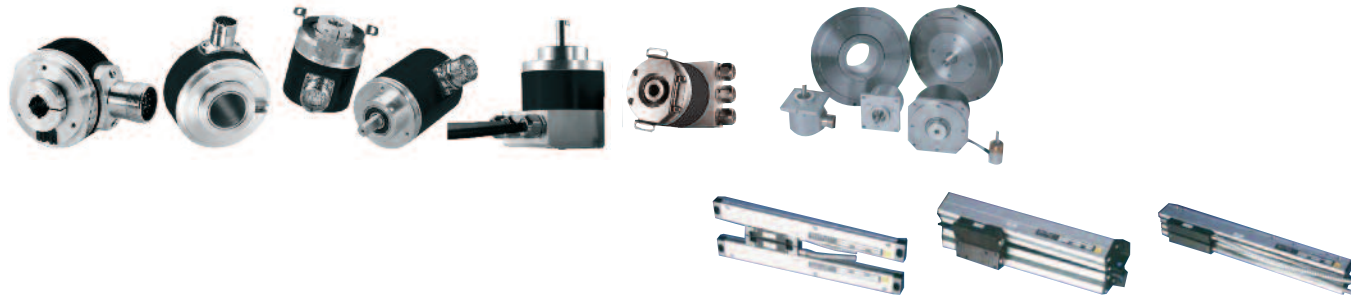
MEYER INDUSTRIE-ELECTRONIC GmbH – MEYLE
Carl-Bosch-Str. 8 · 49525 Lengerich/Germany
Phone +49 54 81-93 85-0 · Fax +49 54 81-93 85-12
www.meyle.de · E-Mail: sales@meyle.de



Sensors and Systems for all Applications



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Systems and Components
for Automation



Incremental, Absolute and Bus Encoders, Linear Encoders

- Incremental encoders with housing diameter 24 to 145 mm
- Incremental encoders with 4 to 72 mm hollow shaft
- Incremental encoders up to 80.000 increments resolution
- Double- and triple mounting of incremental and absolute encoders for different electrically isolated outputs
- Absolute encoders up to resolution 17 Bit singleturn and 30 Bit multiturn
- Bus encoders for Profibus, CANopen, CANlift, Interbus, DeviceNet, Ethernet, SSI, parallel, BiSS
- Heavy duty incremental and absolute encoders for steel, crane and paper industries
- Linear encoders for length measurement with glass scale or long length metal tape up to 30.040 mm
- Angular encoders up to resolution 1.800.000 increments (interpolated)



Safety modules and relays

- Monitoring of emergency-stop switches, safety light grids, guard doors, safety mats, ect.
- Standard safety modules safety according to category 4 (EN954-1) / SIL3 (EN61508)
- Selfconfiguring plug & play safety system, no programming or DIP switches necessary



Flow, conductivity and pH sensors

- Insertion flow sensors from DN 15 - 400
- Inline flow sensors from DN 06 - 65
- Flow transmitters and batch controllers with dosing function as compact or remote version for above sensors
- pH transmitters from DN 15 - 200
- Conductivity transmitters from DN 15 - 200
- Insertion and inline fittings for use in pure, aggressive or contaminated liquids



Level, Flow and Pressure Sensors

- Float level switches, electro optic level switches
- Multi-point level switches
- Pressure switches 0.5 to 400 bar
- Hydraulics and high pressure applications from 40-700 bar



Programmable Inductive Proximity Sensors

- Software programmable, application learning
- Background metal rejection, Band sensing and Position sensing
- Inductive sensors M12, M18, M30, (AC+DC)
- Sensing range up to 29 mm (M30)
- Senses an object at a selectable distance
- Solves the unsolvable applications



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Safety and control components for conveyor belts, steel and cement industries and machine safety

- Rotation speed monitors for braking and conveyor speed control
- Conveyor belt speed monitors and material flow control switches
- Rope and push button operated emergency STOP switches
- Pull rope emergency switches according to DIN/VDE 0660 T200/T210, EN 218
- Off track belt switches according to VDE
- Pull rope and emergency switches with Ex protected contacts according to ATEX guideline for use in zone 21 and 1
- Unlocking devices for supervisory control of drives
- Infrared sensors for steel factories, smelting works and rolling mills
- High temperature proximity sensors