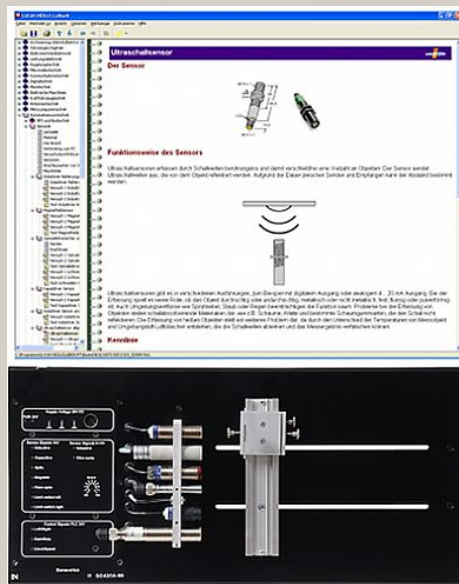


Item No.: SO4204-8U

## Course - Automation Technology 7: Sensors for automation

### Includes:

- Sensor technology experiment board with:
- Inductive and capacitive proximity switches, optoelectronic proximity switch, magnetic field sensor, optoelectronic sensor with fibre optic wave guide
- Two guide rails (X and Y axes) for moving material samples
- Electrically driven X axis with displacement measurement facility
- Motor-driven segmented disc with speed control to determine limiting frequencies
- Counters and frequency meters
- Various interchangeable material samples
- CD-ROM with Labsoft browser and course software



### Course contents:

- Introduction to the operation and function of sensors
- Introduction to the application areas of various sensors
- Determining how various material samples affect different sensors
- Measurement of sensing distances, hysteresis, limiting values and switching frequencies for inductive, capacitive, optical and magnetic field sensors
- Explanation of the reduction factor
- Course duration 4 h approx.