

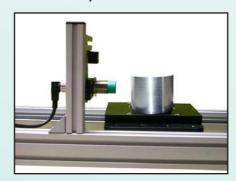


Practical Training in Sensor Technology

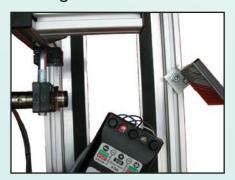
SENSOR TECHNOLOGY: From theory ...

Operational order

Test setup



Testing



Learning Objectives:

- ✓ Types of sensors and how they work
- ✓ Testing and adjustment of sensors
- ✓ Applications of sensors
- ✓ Distance measurement and material detection

Sensors:

- √ inductive
- capacitive
- ✓ optical:
 - diffuse reflective sensor
 - retro-reflective sensor

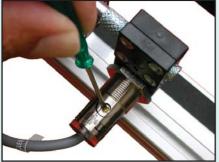
Contents of Sensorics Box

80 700	4	test pieces (plastic white, plastic black, aluminium, stainless steel)
80 701	4	sensors (capacitive, inductive,
		2 x optical with 1 reflector and
		a fastening bracker)
80 702	2	universal sensor holders
		for accommodation of cylindrical
		sensors 5 - 30 mm
80 703	1	set of fixing material for sensors
		2 x slot nut
		2 x M4 threaded screws
80 704	1	mounting system 1 x profile girder for
		setting up test stations at any free
		place on the transfer system
80 618	1	workpiece carrier pallet
		dimensions: 119 x 119 x 15 mm
80 619	1	4-bit ident system

1 set, 4-fold1 compartment for sensor test unit for accommodation of the sensor test

unit (80 705)





Commissioning and troubleshooting



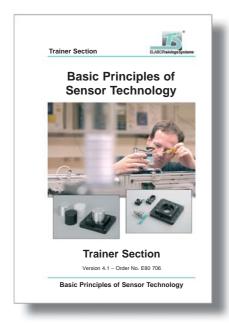
Experiment routine

- 1. Task
- 2. Simplification / simulation
- 3. Work planning
- 4. Selection of sensors
- 5. Circuit diagram
- 6. Set-up of the measurement layout
- 7. Proving the function
- 8. Evaluation of the experiment
- 9. Parts list / calculation

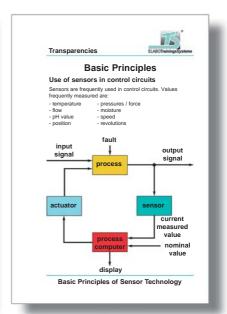
System function test



Teachware







E80 706CD **Trainer Section** E80 707CD **Practical Experiments** E80 708CD Transparencies



Data sheets (contained in the Trainer Section)



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