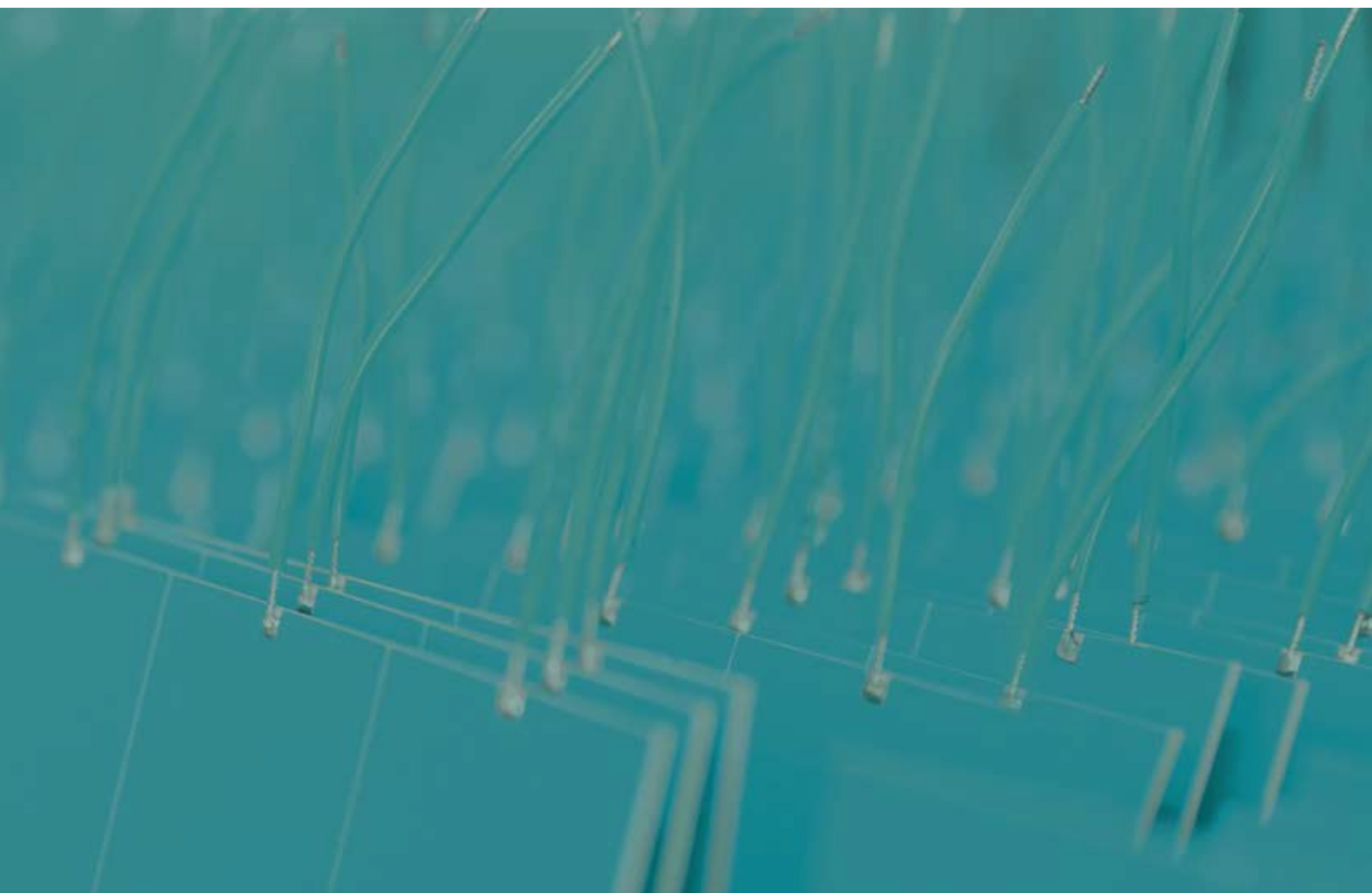




# PRODUCT RANGE

Inspiring Technology since 1986



▶ Potentiometers



▶ Linear and Rotary Sensors



▶ MetaPot Membrane Sensors



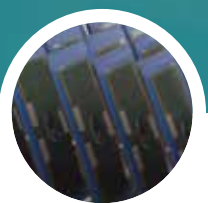
▶ Joysticks



▶ Pressure Sensors



▶ High Voltage Resistors



▶ Power Resistors

LEADING IN SENSORS

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# SENSORS, RESISTORS AND JOYSTICKS IN THICK-FILM TECHNOLOGY

## SENSORS FOR LINEAR AND ROTARY MEASUREMENT



- Absolute measuring sensors
- Metallux-Conductive Plastic-Technology, Hall-Effect
- Lifetime of up to 50 Mio. cycles
- Sensors in plastic or metal housing
- Customer specific designs
- Redundant versions or with additional switching options
- Linearity up to  $\pm 0.25\%$
- Linear sensors up to 500 mm – rotary sensors up to 355°
- Adequate protection for any usage (up to IP 67)

## LINEAR- AND ROTARY SENSORS IN CONDUCTIVE PLASTIC TECHNOLOGY



- Absolute measuring sensors
- High integration possibility
- Easy installation
- Linear sensors up to 500 mm – rotary sensors up to 355°
- Linearity up to  $< 0.1\%$
- Redundant versions or with additional switching options
- Flat design
- Lifetime of up to 50 Mio. cycles

## LINEAR AND ROTARY SENSORS IN METAPOT-TECHNOLOGY



- Flat design
- High protection class IP 65
- Up to 500 mm electrical stroke / 355° rotative
- Customer specific designs
- Magnetically operating, contactless
- Lifetime of up to 100 Mio. cycles
- Linearity up to  $< 0.3\%$

## INDUSTRIAL JOYSTICKS



- 1-, 2-, 3-axis
- Analog/digital
- Conductive plastic, MetaPot, Hall-Effect
- Mechanical notches
- Push button integrated in handle
- „Put and stay“-versions
- Minimal mounting depth
- Low installation height
- Customer specific designs

## SENSORS, RESISTORS AND JOYSTICKS IN THICK-FILM TECHNOLOGY

### PRESSURE SENSORS CERAMIC



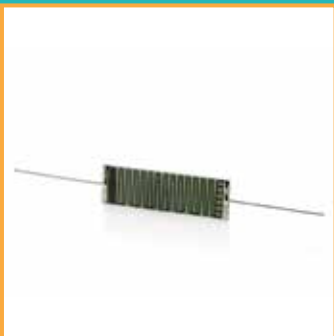
- Pressure range (0.5...600 bar, Ø 15 mm und Ø 18 mm)
- Monolithic, flush mounted
- Relative, absolute
- High precision and longterm stability
- Integrated signal conditioning 0.5 ... 4.5 V output signal
- Customer specific designs
- High chemical resistance

### PRESSURE SENSORS STAINLESS STEEL



- Steel Technology (monolithic or with integrated pressure connection)
- No seal required
- High overload and burst pressure
- Pressure range 10 ... 2000 bar
- Customer specific designs
- Integrated signal conditioning 0.5 ... 4.5 V output signal

### HIGH VOLTAGE RESISTORS/HV-DIVIDERS



- Voltage up to 100 KV
- Resistance up to 100 GΩ
- Tolerance up to 0.1 %
- TCR < 15ppm/°C
- VCR < 0.01 ppm/V
- Power up to 100 W
- Pulse load approved versions

### POWER AND BRAKE RESISTORS



- Resistors in thick-film-Technology up to 900 W
- Low inductance
- Compact and space saving
- Resistors in Wire-Technology up to 6 KW
- Protection up to IP 65
- Temperature switch

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