



PRODUCT PORTFOLIO

Inspiring Technology since 1986



▶ Potentiometers

▶ Linear and Rotary
Sensors

▶ MetaPot
Membrane Sensors

▶ Joysticks

▶ Pressure Sensors

▶ High Voltage
Resistors

▶ Power
Resistors

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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 or 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°, Hall-Effect up to 360°
- Adequate protection for any usage (up to IP 67)
- Low-current consumption, perfectly suitable for battery operation

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
- Customized design
- High resolution

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



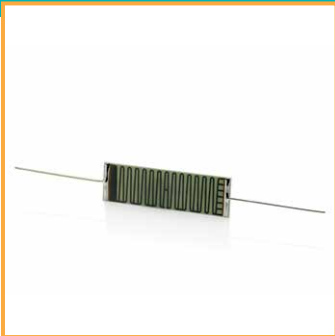
- Pressure range (0.5–600 bar, Ø 18 mm)
- Monolithic, flush membrane
- Relative, absolute and gauge
- High precision and longterm stability
- Optional with signal conditioning 0.5 – 4.5 V or 4 – 20 mA output signal
- Customer specific designs
- High chemical resistance

PRESSURE SENSORS STAINLESS STEEL



- Pressure range 10 – 2000 bar
- Monolithic, optional with thread
- High overload and burst pressure
- Customer specific designs on request
- Optional with signal conditioning 0.5 – 4.5 V or 4 – 20 mA 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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