

With great brands and a product choice of 1000's we have sensors for all applications.

HENGSTLER

ABB

SMC

SICK

OMRON

PEPPERL+FUCHS

TURCK
BANNER

bürkert
FLUID CONTROL SYSTEMS

Panasonic

ifm electronic



Honeywell®

Kübler



Baumer



Telemecanique

RS

Sensors and Transducers at RS Components



RS is offering a huge range of sensors and transducers to control your industrial application, but also versions to be integrated on your electronic design solution.

The RS offer covers over a hundred brands ranging from the generalists like **Honeywell, Sick, Turck Banner** or **Omron** to the specialists like **Wika, Vega, Kubler, Wachendorff** or **Hengstler**.

Sensor ICs are also available from manufacturers like **Analog Devices, Maxim, Microchip** or **Texas Instruments**.

On the following pages you will find some range highlights, incl. linecards of the most popular technologies including ultrasonic, capacitive and inductive proximity sensors as well as flow, level and pressure sensors.

Sensor Linecard – Part 1



	<u>Honeywell</u>	<u>Turck Banner</u>	<u>Sick</u>	<u>Omron</u>	<u>RS</u>	<u>Pepperl & Fuchs</u>	<u>ifm electronic</u>	<u>Baumer</u>	<u>Schneider Electric</u>	<u>Telemecanique</u>	<u>Carlo Gavazzi</u>	<u>Panasonic</u>	<u>Balluff</u>	<u>Gems</u>	<u>Siemens</u>	<u>SMC</u>	<u>Jumo</u>	<u>ABB</u>	<u>Cynergy 3</u>	<u>Eaton</u>	<u>Calex</u>	<u>Flowline</u>	<u>Gefran</u>	<u>Reckmann</u>	<u>Emerson / Mobrey</u>	<u>Assemtech</u>	<u>LEM</u>	<u>Phoenix Contact</u>	<u>Sensitec</u>	<u>Harting</u>
Capacitive Proximity Sensors		✓	✓	✓		✓	✓	✓	✓	✓	✓		✓																	
Current Transducers	✓																	✓									✓	✓	✓	✓
Fibre Optic Sensors		✓	✓	✓		✓		✓	✓	✓		✓																		
Flow Sensors & Switches	✓	✓			✓		✓							✓	✓	✓			✓											
Hall Effect Sensors	✓	✓				✓							✓													✓				
Inductive Proximity Sensors		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							✓										
Infrared Sensors	✓	✓	✓	✓		✓						✓										✓								
Infrared Temperature Sensors				✓																		✓								
Level Sensors & Switches	✓		✓		✓	✓	✓				✓			✓	✓			✓	✓				✓		✓					
Linear Transducers	✓												✓										✓							
Photoelectric Sensors		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						✓				✓							
Platinum Resistance Temperature Sensors	✓				✓												✓							✓						

Click on your preferred brand in the above list to view the full range on the RS website in your country

Sensor Linecard – Part 2



	<u>Honeywell</u>	<u>Turck Banner</u>	<u>Sick</u>	<u>Omron</u>	<u>RS</u>	<u>Pepperl & Fuchs</u>	<u>ifm electronic</u>	<u>Baumer</u>	<u>Schneider Electric</u>	<u>Telemecanique</u>	<u>Carlo Gavazzi</u>	<u>Panasonic</u>	<u>Balluff</u>	<u>Gems</u>	<u>Siemens</u>	<u>SMC</u>	<u>Jumo</u>	<u>ABB</u>	<u>Guardmaster*</u>	<u>Hengstler</u>	<u>Kubler</u>	<u>Flowline</u>	<u>Gefran</u>	<u>Reckmann</u>	<u>TE Connectivity</u>	<u>Asmetech</u>	<u>Schmersal</u>	<u>Pilz</u>	<u>IDEM</u>	<u>Burkert</u>	<u>Smartscan</u>
Light Curtains		✓	✓	✓					✓	✓								✓	✓												✓
Light Beams			✓	✓					✓	✓									✓												✓
Non Contact Safety Switches		✓	✓	✓					✓	✓								✓	✓								✓	✓	✓		
Pressure Sensors	✓		✓	✓	✓		✓		✓			✓		✓	✓	✓	✓		✓			✓	✓								✓
Pressure Switches	✓				✓					✓				✓	✓	✓															
Rotary Encoders	✓		✓	✓	✓			✓												✓	✓				✓						
Sensor ICs	✓																														
Thermocouples					✓												✓							✓							
Ultrasonic Proximity Sensors	✓	✓	✓			✓		✓	✓	✓	✓		✓																		
Vibration Sensors	✓			✓																					✓	✓					
Vision Sensors		✓	✓	✓									✓																		

* not available in all markets

Click on your preferred brand in the above list to view the full range on the RS website in your country

FLIR Thermal sensor AX8 for industrial use



- Compact and easy to install
- Streaming video output
- Automated alarming when pre-set temperature thresholds are exceeded
- Temperature trend analysis
- Results can be shared to a PLC
- Image masking function
- Easy to install in space-constrained areas
- Image storage modes: IR, visual, MSX



Click on image to view the product on the RS website

FLIR AX8 is a thermal sensor with imaging capabilities, combining thermal and visual cameras in a small, affordable package.

OMRON Transparent detection with E3S-DB sensors



- Precise detection and positioning of films, vials, bags, syringes, etc.
- Detection, positioning, counting, cutting, etc. of films, food packed in transparent or translucent bags, trays, etc.
- Detection, positioning, counting, of wrapped sets or pallets
- Other transparent detection ranges from Omron available at RS.



Click on image to view the product on the RS website

Omron offers a full range of sensors which allow customers to choose the most suitable version for their specific application

Q4X clear object detection laser sensor



- Detects distance changes as small as 1mm
- Reliable sensing range of 25 to 300 mm
- Detects across a variety of target colors, materials and surfaces based on distance
- Dual teach mode (intensity + distance) is ideal for error-proofing applications and enables clear object detection with no retro-reflector required
- Robust housing rated to IP69K with FDA-grade stainless steel
- Rugged design resists mechanical impact, over tightening and extreme vibration



Superior performance – reliably identifies the position and reflectivity of the reference background

- Sensing range up to 50mm
- Excellent linearity: $\pm 0.1\%$ F.S.
- Compact & light weight: 20 x 44 x 25mm
- Repeatable measurements of $10\mu\text{m}$
- Analog voltage output 0 - 5V
- Configurable external input
- IP67 rated
- Solid aluminium diecast body



Click on image to view the product on the RS website

Reliable detection with $10\mu\text{m}$ measurement repeatability – high-end performance in a small lightweight package



Telemecanique

OsiSense XS series – inductive sensors



- One of the most comprehensive ranges on the market
- Standard cylindrical forms with M8,12,18, 30 - short & long bodies
- Complying with international standards, CE, UL, CSA, CCC; CTick, TUV
- With a top international quality IP69K
- With all electric standards including AC/DC power supply
- Best in class quality and immunity to harsh industrial environments



Click on image to view the product on the RS website

Best in class quality and immunity to harsh industrial environments