Applications

For more complex sensing needs, refer to www.SeSensors.com, the Essential Guide to Sensing or the Sensors General Catalog for information relative to the sensors described below.

OsiSense® Sensors

XC for special applications
- The most comprehensive offering of special limit switches dedicated to severe-environment and heavy-duty service. Mainly for hoisting, handling, mining, minerals and metals and other harsh-environmental constraints (foundry, welding and automotive industries etc.)
- Severe duty for hoisting and material-handling applications
- Specifically designed products for bulk-shift monitoring
- Cross Limit Switches – Dedicated products for overhead cranes and stock holds for end of travel control

Safety detection
- One of the most comprehensive offerings of industrial safety switches on the market, complemented by a range of safety light curtains and safety mats for dangerous machines in industrial segments. Example: packaging, handling, robotics, machine tools, presses, automotive market.
- Detection of gates or cover openings
- Guard switches with mechanical actuator
- Coded magnetic guard switches
- Detection of operators in free access zone
- Safety light curtains
- Safety mats

XS for special applications
- One of the most comprehensive offerings of inductive sensors for general purpose as well as assembly machines, robotics, machine-tools, machining, packaging, materials handling, conveying and food & beverage industry.
- Rotation control, ferrous/non-ferrous detection
- Plastic case sensors for double insulation and electrical environment compliance
- Miniature cylindrical format planar, smooth barrier 4 mm and 6.5 mm or M5 for assembly applications
- Stainless steel and plastic housings for dedicated food & beverage applications
- Capacitive sensors XT range for detection of insulating or conductive materials

R&D

NOTE: Sensors described in this catalog with the exception of the safety detections products are designed to be used for standard industrial presence-sensing applications. These sensors do not include the self-checking redundant circuitry necessary to allow for use in safety applications.

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The information and dimensions in this catalog are provided for the convenience of our customers. While this information is believed to be accurate, Schneider Electric reserves the right to make updates and changes without prior notification and assumes no liability for any errors or omissions.

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SM/XX Ultrasonic sensors
- Detection of metals (Fe, Al, Cu, …) without contact (no touch)
- High measuring range, best response time
- Excellent resistance to industrial environments

XS Proximity sensors
- Detection of all solid objects by contact
- Detection of metals (Fe, Al, Cu, …) without contact (no touch)
- Excellent detection range of up to 40 m (131.0 ft)
- High reaction rate, available with background suppression

Sensing of materials without contact (no touch), transparent or not.
Direct detection of objects (cables, poles, other objects close to sensor)
Large measuring range: detection from -14.5 to 8,700 PSI (-1 to 600 bar)

C24X...M12 M12 4-pin
C24X...W 1/2" 3-pin
XU...M8 M8 3-pin
XS...U20 1/2" 3-pin

Choose the body
- Detection of metals (Fe, Al, Cu, …) without contact (no touch)
- High measuring range, best response time
- Excellent resistance to industrial environments

Choose the body size
- Size of product (diameter, length) and sensing range

Choose the output type
- According to the load compatibility (PLC, …)
- DC 3-wires PNP/NPN, DC... at 24VDC

Choose the output signal & function
- According to the automation function to achieve discrete (NO, NC, NO+NC)… or analog (0-10V, 4-20mA)

Choose the hydraulic fluid connection
- According to facility standards or machine requirements.
- M12 connector or screw clamp terminal with different tapped cable connections

Choose the family
- Detection of objects without contact (no touch), transparent or not.
- Direct detection of objects (cables, poles, other objects close to sensor)
- Large measuring range: detection from -14.5 to 8,700 PSI (-1 to 600 bar)

Choose the electrical connection
- According to the automation function to achieve discrete (NO, NC, NO+NC)… or analog (0-10V, 4-20mA)

Choose the electrical connection
- According to the load compatibility (PLC, …)
- DC 3-wires PNP/NPN, DC... at 24VDC

Choose the hydraulic fluid connection
- According to facility standards or machine requirements.
- M12 connector or screw clamp terminal with a tapped cable connection

Choose the family
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