

SEACON

SEACON ADVANCED PRODUCTS, LLC PRODUCT DATASHEET

PROXIMITY SWITCHES



Proximity Switches

DESCRIPTION

SEACON offers a variety of Switches. The Proximity Switch uses magnets, either in attraction or repulsion, to open or close an electrical circuit. Several types are available to meet customer's needs. All switches are single pole double throw.

KEY FEATURES

- Load capacities
 - Light duty (LD - 1 amp)
 - Standard Duty (SD - 7 amps)
- Hermetically sealed
- No O-rings or Gaskets
- Single Pole Double Throw
- No O-rings or Gaskets
- Proximity Switch meets NAVSEA requirements for part number 5162424-101-11
- Magnet Retainer meets NAVSEA requirements for part number 5062424-102-11

MATERIALS

- 316 Stainless Steel - Available for all series
- Titanium - Available for all series

QUALITY

- SEACON Advanced Products, LLC operate a Quality Management System certified to ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007.





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CONFIGURATIONS

AU-VM Series, AU-VME Series.

Standard Proximity -	The switch can be normally open or closed. When a magnet is presented the switch will either open or close the circuit.
Sinking Hall Effect -	The sensor is normally closed. When a magnet is present the sensor opens at a very high rate of speed.
Sinking/Sourcing Hall Effect -	The switch is normally open and will gradually close as the magnet is brought closer to the switch. This is ideal for lining up two objects.
Latching Hall Effect -	The circuit is closed when a South magnet is present and opens when a North magnet is presented.

DESIGN RATINGS & TESTING

- Pressure rating:
 - 6,000 psi - VM-series, VME series.
 - 10,000 psi - VME series.
- Power load:
 - Light duty = 7 amps (115 VAC/28 VDC) - Available for all series
 - Standard Duty = 7 amps (115 VAC/28 VDC) - Available for all series
- Minimum cycles: All series greater than 50,000
- Standard Temperature range: -40° to +175°F Available for VM and VME series

OPERATION

- Magnets in repulsion for AU

QUALIFICATIONS

- Proximity Switch meets NAVSEA requirements for part number 5162424-101-11
- Magnet Retainer meets NAVSEA requirements for part number 5062424-102-11

PRINCIPLE OF OPERATION

A Proximity Switch uses magnets, either in attraction or repulsion, to open or close an electrical circuit. Except for hall effect, all switches are single pole double throw.

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