**Introduction**

GO™ Safety Related Switches operate on the principle of magnetic induction, reacting to magnetic targets as they come within the switch’s sensing range. Although switches vary in designs and applications, all GO Switches use a common technology actuated by the presence of a magnetic target, change the state of electrical contacts.

**Mounting**

- Nuclear service GO Switches are immune to EMI and RF interference.
- Use non-corrosive, stainless steel mounting brackets only. Consult factory for available mounting locations. For the maximum rated sensing distance, consult factory near ferromagnetic metals or in a ferrous metal bracket.

**Thread Options**

- C7, C8, M7, M8, and R7 and SV7 nuclear service GO Switches may be installed with either specified non-magnetic or ferromagnetic target magnets. Reference sensing ranges in corresponding sections throughout the catalog.

**Contact Material**

- Palladium silver with Sawtooth surface configuration

**Contact**

- Contacts: Single Pole, Double Throw, Form-C

**Electrical Ratings**

- Resistive: 4A & 120VAC 1A & 48VDC
- Contact material: Palladium silver with Sawtooth surface configuration

**C & R Specifications - SDPT**

- Coaxial Sensing Distance w/ C-AMST7A
  - Target: Average Sensing 0.100” ± 0.025” (2.54 mm ± 0.64 mm)
  - Average Reset 0.031” ± 0.015” (0.79 mm ± 0.38 mm)
- Coaxial Sensing Distance w/ C-AMST7B
  - Target: Average Sensing 0.250” ± 0.025” (6.35 mm ± 0.64 mm)
  - Average Reset 0.031” ± 0.015” (0.79 mm ± 0.38 mm)

**C & R Specifications - DPDT**

- Coaxial Sensing Distance w/ C-AMST7A
  - Target: Average Sensing 0.100” ± 0.025” (2.54 mm ± 0.64 mm)
  - Average Reset 0.031” ± 0.015” (0.79 mm ± 0.38 mm)
- Coaxial Sensing Distance w/ C-AMST7B
  - Target: Average Sensing 0.250” ± 0.025” (6.35 mm ± 0.64 mm)
  - Average Reset 0.031” ± 0.015” (0.79 mm ± 0.38 mm)

**Target Material**

- Target Magnets: C-AMST7A or C-AMST7B

**Enclosure Material**

- Ss type 303 Stainless Steel

**Conduit Outlet**

- 1/2”-14 NPT, One location

**GO SWITCH HOOK-UP DIAGRAMS**

- C7, R7, H7, M7, and SV7

**Setting Up A Nuclear Service GO Switch For Optimum Performance**

- Nuclear service GO Switches use permanent magnets and a push-pull plunger to control a switch trip distance. When a large magnet enters the sensing area of the switch, it attracts the primary magnet, which pulls the connecting rod and common contact. The normally closed and normally open contacts change states.

- For installation in hazardous locations, check local electrical codes.

- All conduit connected switches should be installed using proper insulation methods.

- The GO Switch must have a qualified GO Switch target magnet, or other types of target magnets, in order to contact factory for metric thread options.

**Topworx for metric thread options.

**See illustration below for correct switch alignment.**

- For safer use, please consult the nuclear service GO Switch technical data sheet for more detailed information.

**Series Wiring**

- Any number of GO Switches may be wired in parallel, as shown to the right.

**Special Conditions for Safe Use**

- The field side wires should be protected against damage and terminated to a terminal or junction box suitable for the conditions of use.

- Due to the GO Switch’s sealed construction, field service is not available. Refer to our trouble shooting guide for a possible solution. If problem persists, contact the factory directly.

**Series Wiring**

- Any number of GO Switches may be wired in parallel, with no current leakage and without drawing current operating current.

**Attachment of Conduit or Cable**

- The switch conduit or cable needs to be properly supported when mounted to any future. The target magnets were mounted at a torque value of 30lb-ft (42.74 Nm) with a tolerance of +1 – 2 lbs-ft (2.71 Nm) during seismic testing.

**Attachment of Conduit or Cable**

- The switch conduit or cable needs to be properly supported when mounted to any future. During seismic testing, the stainless steel conduit (with PEEK cable) was supported at 100% humidity. For LOCA testing, only the C7 switch has been qualified for this application.

- The GO Switch is “pure” contact switches, meaning they have negligible voltage drop when closed, nor do they have leakage current when open. For further installation, switches may be wired in series or parallel, as shown to the right.

- All GO Switches are “pure” contact switches, meaning they have negligible voltage drop when closed, nor do they have leakage current when open. For further installation, switches may be wired in series or parallel, as shown to the right.

**Electrical Ratings**

- Resistive: 4A & 120VAC 1A & 48VDC
- Contact material: Palladium silver with Sawtooth surface configuration

**Contact**

- Contacts: Single Pole, Double Throw, Form-C

**Electrical Ratings**

- Resistive: 4A & 120VAC 1A & 48VDC
- Contact material: Palladium silver with Sawtooth surface configuration

**Conduit Outlet**

- 3/4”-14 NPT, One location

**GO Switch HOOK-UP DIAGRAMS**

- C7, R7, H7, M7, and SV7

**TOPWORX™ engineers are happy to provide technical assistance on GO™ Switch products. However, it is the customer’s responsibility to determine the safety and suitability of the product in their application. It is also the customer’s responsibility to install the switch using the current electrical codes in their region.**
7. OUT LIMITATION FOR CAPITAL, FUEL AND POWER, AND CLAIMS OF BUYER’S CUSTOMERS. BE LIMITED TO, LOSS OF ANTICIPATED PROFITS, REVENUE OR USE AND COSTS INCURRED INCLUDING REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED IN CONTRACT, INFRINGEMENT, BREACH OF WARRANTY, NEGLIGENCE, OR STRICT LIABILITY, OR OTHER CAUSE OF ACTION) FOR ANY INJURY TO PERSONS OR PROPERTY OR ANY OTHER LOSS OR DAMAGE WHICH MAY RESULT FROM THE USE OR EXERCISE OF ANY RIGHTS ARISING FROM THE AGREEMENT. THE REMEDIES OF BUYER SET FORTH IN THIS AGREEMENT ARE EXCLUSIVE. IN NO EVENT, WHETHER SUED OR NOT SUED, WHETHER SELLER IS FOUND TO BE AT FAULT, WHETHER SUCH FAULT IS CONTRIBUTORY, SIMPLE, OR COMBINED, SHALL THE REMEDIES OF BUYER LOSSE BE LIMITED TO, OR EXTENDED TO, ANY AMOUNTS PAID TO THE INSURER OF BUYER’S CUSTOMERS, OR ANY DAMAGES WHICH MAY RESULT FROM THE USE OR EXERCISE OF ANY RIGHTS ARISING FROM THE AGREEMENT.

7. TAXES. Any tax or governmental charge payable by the Seller because of the manufacture, sale or delivery of the Goods, or any other Goods or Services, may be sold or otherwise charged to the Buyer in the prices specified herein. The foregoing and all taxes imposed by any other jurisdiction shall be the responsibility of the Buyer.

8. TERMS OF PAYMENT. Subject to the approval of Seller’s Credit Department, terms are F.O.S. and shipping point; for sales in which the end destination of the Goods is within the United States, upon delivery to the freight carrier at the shipping point; for sales in which the end destination of the Goods is outside of the United States, immediately after the shipping point; for sales in which the end destination of the Goods is within the United States, upon delivery to the freight carrier at the shipping point; for sales in which the end destination of the Goods is outside of the United States, immediately after the shipping point.

9. TAXES. Subject to the approval of Seller’s Credit Department, terms are F.O.S. and shipping point; for sales in which the end destination of the Goods is within the United States, upon delivery to the freight carrier at the shipping point; for sales in which the end destination of the Goods is outside of the United States, immediately after the shipping point.