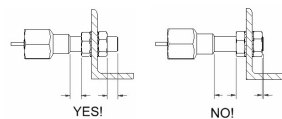


Introduction

GO™ Safety Related Switches operate on the principle of magnetic attraction, reacting to magnetic targets as they come within the switch's sensing range. Although switches vary in design according to their intended applications, all GO Switches use permanent magnets which, when actuated by the presence of a magnetic target, change the state of electrical contacts.

Mounting

- Nuclear service GO Switches are immune to EMC and RF interference.
- Use non-ferrous, stainless steel mounting brackets only. Consult factory for available mounting kits. For the maximum rated sensing distance, avoid mounting near ferrous metals or in a ferrous metal bracket.
- C7, C8, H7, H8, M7, M8, R7 and SV-7 nuclear service GO Switches must be installed with TopWorx qualified target magnets. Reference sensing ranges in corresponding sections throughout the catalog.
- Sensing and differential of switch may vary depending on target travel direction.
- Configure mounting of the switch and/or target so that target passes within the sensing area without physically contacting the switch. Sensing range will vary according to switch and target mode.
- **Caution:** Do not use excessive force on external threads when installing. The switch threads need to be properly torqued as indicated below when mounted to any fixture. Over-torquing or under-torquing the switch threads may cause the switch to operate improperly. TopWorx recommends a torque value of **35lbs - ft. (47.45 Nm)** with a tolerance of **+/- 2 lbs.- ft. (2.71 Nm)**.
- The switch must be mounted on the bracket and bolted close to the end of its threads, near its center of mass. This eliminates undue stress caused by heavy cables, connectors, etc.



- For heavy or inductive loads, arc suppression devices, or interposing relays are recommended for contact longevity. Contact factory for specifics.
- Installation must use included Jam nuts and Lock washers.
- Recommended installation distance is equal to the half of published sensing distance per switch.

H7, M7, & SV7

Specifications - SPDT
Coaxial Sensing Distance w/ C-AMS7A Target
 Average Sensing 0.150" ± 0.020" (3.81 mm ± 0.51 mm)

Average Reset 0.023" ± 0.010" (0.58 mm ± 0.25 mm)

Coaxial Sensing Distance w/C-AMS12 Target
 Average Sensing 0.350" ± 0.025" (8.89 mm ± 0.64 mm)

Average Reset 0.031" ± 0.015" (0.79 mm ± 0.38 mm)

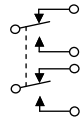
Pressure Rating At Sensing Surface: 2,000 psi (137.89 bar)

Thread Options: 5/8"-18 UNF (Consult TopWorx for metric thread options)

Operating Temperature:
SV7: -40°C (-40°F) to 200°C (392°F)
H7: -40°C (-40°F) to 175°C (347°F)
M7: -40°C (-40°F) to 150°C (302°F)
ATEX (all except SV7): -40°C (-40°F) to 150°C (302°F)

Contact Material: Palladium silver with Sawtooth surface configuration

Contacts: Single Pole, Double Throw, Form C.



Electrical Ratings: Resistive
 4A @ 120VAC / 1A @ 48VDC
ATEX (all except SV7): 4A @ 120VAC / 3A @ 24VDC

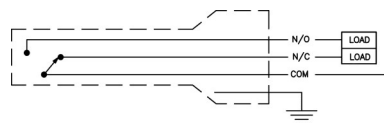
*Consult factory for higher Amp rating requirements

Target Material: Target magnets C-AMS7A or C-AMS12

Enclosure Material: SS type 303

Conduit Outlet: 1/2"-14 NPT. One location

GO SWITCH HOOK-UP DIAGRAMS C7, R7, H7, M7, and SV7



SPDT (Form C) Contacts May be wired Form A (N/O) or B (N/C)

C7 & R7

Specifications - SPDT
Coaxial Sensing Distance w/ C-AMS7A Target
 Average Sensing 0.100" ± 0.020" (2.54 mm ± 0.51 mm)

Average Reset 0.023" ± 0.010" (0.58 mm ± 0.25 mm)

Coaxial Sensing Distance w/C-AMS12 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)

Pressure Rating At Sensing Surface: 2,000 psi (137.89 bar)

Thread Options: 5/8"-18 UNF (Consult TopWorx for metric thread options)

Operating Temperature:
C7, R7: -40°C (-40°F) to 200°C (392°F)
ATEX: -40°C (-40°F) to 150°C (302°F)

Contact Material: Palladium silver with Sawtooth surface configuration

Contacts: Single Pole, Double Throw, Form C.

Electrical Ratings: Resistive
 4A @ 120VAC / 1A @ 48VDC
ATEX: 4A @ 120VAC / 3A @ 24VDC

*Consult factory for higher Amp rating requirements

Target Material: Target magnets C-AMS7A or C-AMS12

Enclosure Material: SS type 303 or 316L (RCC-EK1+)

Conduit Outlet: 3/4"-14 NPT. One location

C8, H8, & M8

Specifications - DPDT
Coaxial Sensing Distance w/ C-AMS7A Target
 Average Sensing 0.100" ± 0.020" (2.54 mm ± 0.51 mm)

Average Reset 0.023" ± 0.010" (0.58 mm ± 0.25 mm)

Coaxial Sensing Distance w/C-AMS12 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)

Pressure Rating At Sensing Surface: 2,000 psi (137.89 bar)

Thread Option: 1"-14 UNF (Consult TopWorx for metric thread options)

Operating Temperature:
C8: -40°C (-40°F) to 200°C (392°F)
H8, R7: -40°C (-40°F) to 200°C (392°F)
M8: -40°C (-40°F) to 150°C (302°F)
ATEX: -40°C (-40°F) to 150°C (302°F)

Contact Material: Palladium silver with Sawtooth surface configuration

Contacts: Double Pole Double Throw, 2 Form C.

Electrical Ratings: Resistive
 4A @ 120VAC / 1A @ 48VDC
ATEX: 3A @ 120VAC / 1A @ 24VDC

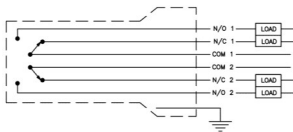
*Consult factory for higher Amp rating requirements

Target Material: Target magnets C-AMS7A or C-AMS12

Enclosure Materials: SS type 303

Conduit Outlet: 3/4"-14 NPT. One location

C8, H8, and M8



DPDT (2 Form C) Contacts

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 set of dry contacts. When a target 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 state.

The **sensing distance** recommended by TopWorx is the maximum distance between the switch and target magnet trip point. The **average reset**, also known as deadband or hysteresis, is the distance that the target magnet must move from the sensing area in order to allow the switch to reset.

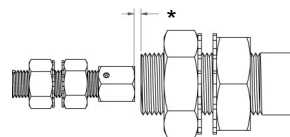
To apply the Nuclear service GO Switch and obtain the least differential, the direction the target approaches the switch must be considered (axial, radial).

The measurements shown are nominal depending on the size of target magnet used in the application. Consult the coaxial sensing distance for each switch model listed in this IOM.

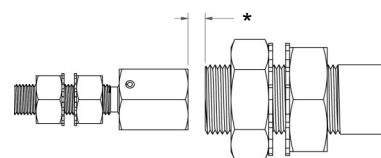
With proper mounting, once the switch is set, the GO Switch will maintain calibration for life.

See illustration below for correct switch alignment.

C-AMS7A Target Magnet



C-AMS12 Target Magnet



*Refer to switch specifications for average sensing distance.

The target magnet threads need to be properly torqued when mounted to any fixture. The target magnets were mounted at a torque value of 35lbs-ft (47.45 Nm) with a tolerance of +/- 2 lbs.-ft. (2.71 Nm) during seismic testing.



Ex d IIC T3 Gb; Ex Baseefa08ATEX0360X

IECEx BAS 08.0122X

120VAC/4A AND 24VDC/3A FOR SPDT SWITCHES

120VAC/3A AND 24VDC/1A FOR DPDT SWITCHES

PLEASE NOTE: THE SV7 SWITCH IS NOT CERTIFIED BY ATEX OR IECEx.

Attachment of Conduit or Cable

Attach conduit or cable correctly.

The switch conduit or cable needs to be properly supported when mounted to any fixture. During seismic testing, the stainless steel conduit (with PEEK cable) was supported at 3.28 ft (1 m) from the back of the switch while the Rockbestos or PEEK cables were supported at 1 ft (0.305 m) away from the back of the switch. EGS Flex conduit and support kit are available from TopWorx as an option. During seismic testing of the C7 switch with EGS QDC and flex conduit, the flex conduit was supported 15' from the QDC interface. Please consult factory for more detailed information.

Attachment of Conduit or Cable Cont.

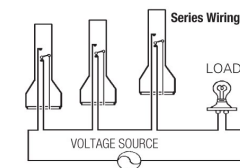
- If the switch is mounted on a moving part, be sure flexible conduit is long enough to allow for movement, and positioned to eliminate binding or pulling.
- For installation in hazardous locations, check local electrical codes.
- All conduit connected switches should be installed using proper installation methods.
- The GO Switch must have a qualified QDC, a qualified sealed stainless steel conduit, or other types of qualified accepted seal when used in submerged applications or exposed to 100% humidity. For LOCA DBA type submergence, however, only the C7 switch has been qualified for this application.

- The EGS Gen 3 field side connector O-ring (QualTech Part No. 2-021) must be replaced after being disconnected. Per Qualtech Report No. TR-23009-14 RevA, the O-ring qualified life at continuous operation, without disconnection, is 25.1 years at 144.14 F (62.3 C)

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

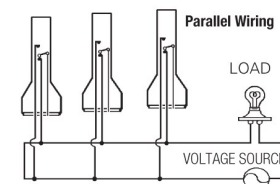
Series Wiring

Any number of GO Switches may be wired in series, without voltage drop.



Parallel Wiring

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



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, please contact the factory directly.

C7 & R7 SPDT 4 COND. Peek Cable	
N/C	Red
N/O	Blue
COM	Black
GND	Green

C8, H8, & M8 DPDT 7 COND. Peek Cable & EGS Connector	
N/C1	Red
N/O1	Blue
COM1	Black
N/C2	Yellow
N/O2	Brown
COM2	Natural
GND	Green

EGS 4 Pin Connector	
N/C	A Red
N/O	B White
COM	C Black
GND	D Green

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These terms and conditions, the attendant quotation or acknowledgment, and all documents incorporated by reference therein, binds TopWorx, Inc. hereinafter the Seller, and the buyer, hereinafter Buyer, and constitutes the entire agreement (Agreement) between Buyer and Seller for the provision of services (Services) and/or the sale of goods (Goods) including (except as provided in Section 10) firmware incorporated therein.

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9. TERMS OF PAYMENT: Subject to the approval of Seller's Credit Department, terms are F.O.B. shipping point, net 30 days from date of Seller's invoice in U.S. currency, except for applicable milestone payments covered below or export shipments for which Seller may require other arrangements. Freight charges may include shipping and handling charges, and Buyer shall pay all such charges. If any payment owed to Seller hereunder is not paid when due, it shall bear interest at a rate 1-1/2% per month interest from the date on which it is due until it is received and future shipments may be placed on hold. Seller shall have the right, among other remedies, either to terminate the Agreement or to suspend further deliveries under this and/or other agreements with Buyer in the event Buyer fails to make any payment hereunder when due. Buyer shall be liable for all expenses attendant to collection of past due amounts, including attorneys' fees. Unless otherwise provided in Seller's written quotation, periodic milestone payments shall be made by Buyer when the purchase price of this Agreement exceeds \$100,000. In such cases, invoices shall be issued by Seller and paid by Buyer based on the following milestones: Milestone 1: 30% of price upon acceptance of order by Seller. Milestone 2: 30% of price upon release by Seller of approved bills of material to manufacturing for assembly. Milestone 3: 40% of price upon shipment of the Goods by Seller. Seller reserves the right to designate additional Milestones where the Agreement provides for Services in excess of \$50,000.

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11. BUYER SUPPLIED DATA: To the extent that Seller has relied upon any specifications, information, representation of operating conditions or other data or information supplied by Buyer to Seller ("Data") in the selection or design of the Goods and/or provision of the Services and the preparation of Seller's quotation, and in the event that actual operating conditions or other conditions differ from those represented by Buyer and relied upon by Seller, any warranties or other provisions contained herein which are affected by such conditions shall be null and void.

12. EXPORT/IMPORT: Buyer agrees that all applicable import and export control laws, regulations, orders and requirements, including without limitation those of the United States and the European Union, and the jurisdictions in which the Seller and Buyer are established or from which items may be supplied will apply to its receipt and use of Goods and Services. In no event shall Buyer use, transfer, release, import, export, or re-export Goods in violation of such applicable laws, regulations, orders, or requirements.

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