GO™ Switch hook-up diagrams

Specifications - SPD7

- Sensing Distance: 71 & 72: 0.040 (1.02mm) 2,000 PSI, 71: 0.043 (1.09mm) 2,000 PSI, 77: 0.043 (1.09mm) 5,000 PSI
- Range with Target Magnet: Up to 35' (Model 71 & 72 up to 15’)
- Differential: Approx. 0.050 (1.3mm)
- Thread Options: 71: 5/8-18 UNF, M12 x 1
- Temperature Rating: 71 & 72: 40ºC to 221ºF (105ºC) Std.
- Contact Material: Palladium silver with Sawtooth configuration
- Contacts: Single Pole, Double Throw, Form C
- Electrical Ratings: Resistive: 4A @ 120VAC @ 240V, 2A @ 240V, 0.25A @ 48VDC
- Target Material: Ferrous or magnetic target
- Conduct Outlet: 1/2”-14NF, One location
- Enclosure Material: Stainless steel type 303, 316 optional
- Temperature Rating: 71 & 72: -20ºC to 74ºC
- Assembly: Not required
- Sensing Distance: 0.050” (1.3mm) Under operating conditions

Setting up a series GO™ Switch

- Use when installing more than one GO™ Switch
- Connect switch wiring in series
- Connect GO™ Switches in series to the control circuit
- When GO™ Switches are connected in series, the total resistance of the circuit remains constant
- Parallel Wiring
- When solid state switches are placed in parallel, there is about 100 microamps leakage through each switch. If tens solid state switches were wired in parallel, the total leakage would be 10 amps or one milliamp - sufficient current to degrade the performance of logic control (PLC). Any number of GO™ Switches may be wired in parallel, with no current leakage and without degradation of operating current.

EC Declaration of Conformity

The products described herein conform to the provisions of the following European Community Directives, including the latest amendments:
- Low Voltage Directive (2006/95/EC)
- Machinery Directive (2006/42/EC)
- ATEX Directive (94/9EC)

Air and Hydraulic Cylinders

A ferrous cylinder cushion or piston will actuate the switch. To determine the correct thread length, measure the distance from the head face to the cushion and add 1/2” for seal nut.

Series Wiring

Any number of GO™ Switches may be wired in series, without voltage drop. By contrast, solid state switches have about two volts across the switch when operated in a 12volt solid state system with four switches in series. 8 volts is dropped across the switches. Only 4V is left to operate the load. When using GO™ Switches, 12V is still available to operate the load. (Except 71L, approx. 5V drop)

GO™ Switches sense ferrous materials such as 400 series and stainless steel.

Although switches vary in design according to their intended applications, all GO™ Switches use permanent magnets which, when actuated by the presence of a ferrous or magnetic target, change the state of the electrical contacts.

**Mounting**

- 77 Series GO™ Switches are unthreaded for field installed and RF interference.
- 70 Series GO™ Switches may be mount
- **Switch as close to the middle of the body for special installations.**
- **tact factory for specifics.**
- recommended for contact longevity. Con-
- **low current controls applications.**
- increase contact pressure. This is helpful in frequency, type of load, etc.
- appropriate GO™ Switch model to match
- Sensing and differential of switch may vary depending on target travel direction. - Use when applying a GO™ Switch. Howev-
- Sensing 0.100
- Target Material:
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Subject to the limitations contained in Section 6 other than the purpose for which it was provided and may not be disclosed to or otherwise, legal title to the Goods and risk of loss thereto shall transfer to

1. Seller shall not be liable for delays in advance by Seller. All costs of dismantling, reinstallation and freight and the cause not the fault of Seller are not covered by this limited warranty, and shall found by Seller to be defective, or refund the purchase price of the defective

all Consumables and Services are warranted for a limited warranty period. All other Goods are warranted for twelve (12) months from the date of shipment by Seller. Consumables and Services are warranted for a period of 90 days from the date of shipment or completion of the Services. Products purchased by Seller from a third party for Buyer ("Third-Party Products") shall only be warranted by the original manufacturer. Seller shall, to the extent practical, promptly endeavor to arrange for procurement and shipment of the repaired or replacement Goods directly to the Buyer or to Seller at the Buyer’s expense. In no event shall Seller be required to repair or replace Goods or Services in the Buyer's place of business. Seller shall be deemed to have fully performed the warranty repair or replacement required under this Agreement,

Wiring Diagrams 7G, 7H, 7I– DPDT

Special Conditions for Safe Use and Possible Misuse

- The overheaded or individual conductors must be suitably protected against mechanical damage and be arranged in such a way that a 16 mm² flexible cable or a terminal or junction facility for suitable for the conditions of use.

- The proximally switches do not require a connection to earth for safety purposes, but an earth connection facility is to be mounted within the equipment enclosure. An intrinsically safe circuit may be earthed at one point only. If the earth connection is made, the point of connection shall be fully considered in any installation, i.e. the use of a geocentrically isolated interface.

- The switch must be supplied from a certified Ex ic intrinsically safe source.

- An external ground connection must be protected by an external mounting device and / or cable conduits / connections.

- In Case 14 Switch, any potential source of abnormal temperature

- are marked T6: TB5 (C°) ≤ 50°C ≤ TB6 ≤ 100°C

- Single pole switch, within one proximity switch must form a connection facility for the earthing or bonding conductor. It is therefore

- The proximity switches do not require a connection to earth. They are to be used as a substitute for normally open contacts in a protective circuit. If the distance between the switches is increased, the protective circuit must be made more sensitive.

- Warning-Explosion-Hazard: Suitable conditions of use require: a fixed earthing connection, a protective earth connection, a fixed bonding connection, or an earth connection, if possible, complying with the requirements of a hazardous location.

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