



THE ALL IN ONE PROXIMITY SENSOR AND LIMIT SWITCH. GO Gets It.

GO Switch is the most versatile sensing solution. It detects like a proximity switch and functions like a limit switch, providing higher reliability when conventional switches fail.



Ex NEPSI













A GLOBAL LEADER IN VALVE CONTROL AND PROXIMITY SENSING



Emerson™ Process Management is a global leader in valve control and proximity sensing for the process industries. Our solutions enable plants, platforms, and pipelines to manage and control operations more intelligently and efficiently under the most demanding and extreme conditions.

GLOBAL TECHNOLOGY LEADERSHIP

TopWorx technology advancements are at the forefront of innovation in the process automation industry. TopWorx uses wireless technologies and fieldbus protocols such as FOUNDATION Fieldbus, DeviceNet, AS-Interface, Profibus, and HART to reduce installation costs and enable predictive maintenance.











GLOBAL HAZARDOUS AREA CERTIFICATIONS

In addition to high temperature (204°C), cold temperature (-50°C), and sub-sea (7,010 meters) applications, TopWorx products are suitable for use in Flame-proof/Explosion Proof, Non-Incendive, Intrinsically Safe hazardous areas with IECEx, ATEX, GOST, InMetro, UL, CSA, KOSHA, and NEPSI certifications.



















GLOBAL SERVICE & SUPPORT

With company locations in the United States, United Kingdom, South Africa, Bahrain, and Singapore, TopWorx is strategically positioned to provide outstanding support. In addition, over 200 Certified Product Partners throughout the world are available to provide competent local support when needed.







WWW.TOPWORX.COM

Visit **www.topworx.com** for comprehensive information on our company, capabilities, and products – including model numbers, data sheets, specifications, dimensions, and certifications.

HIGH RELIABILITY APPLICATIONS







GO Switch provides reliable, durable proximity sensing in the most demanding conditions. Using unique technology, GO Switch outperforms all other types of sensors in applications that require high reliability and durability.

CAPABILITIES

- Superior current rating
- Superior pressure rating
- Superior temperature rating
- Superior hazardous area ratings
- Superior resistance to physical abuse
- · Superior resistance to corrosives, salt water

With GO Switch, customers enjoy:

- One-of-a-kind technology that offers high current ratings, AC/DC and NO/NC wiring flexibility and non-contact detection of ferrous metal and magnetic targets.
- Global certifications for use in Zone 0 (intrinsically safe), Zone 1 (explosion proof), Zone 2 (non-incendive) Class I, Div 1 & 2, Class II, Div 1 & 2 and Class III hazardous areas.
- Proven reliability in power generation, chemical, refineries, steel & aluminum, water & wastewater, oil & gas, petrochemical, food & beverage, pulp & paper, heavy equipment, mining, military vehicles, manufacturing, amusement parks, and material handling industries.
- Durability in mission-critical applications in extremely hot, cold, wet, dirty, abusive, corrosive, and explosive environments.

GO™ SWITCH CAPABILITIES

Common Features & Benefits

Using a unique technology, GO Switch outperforms conventional limit switches and proximity sensors in the toughest applications.















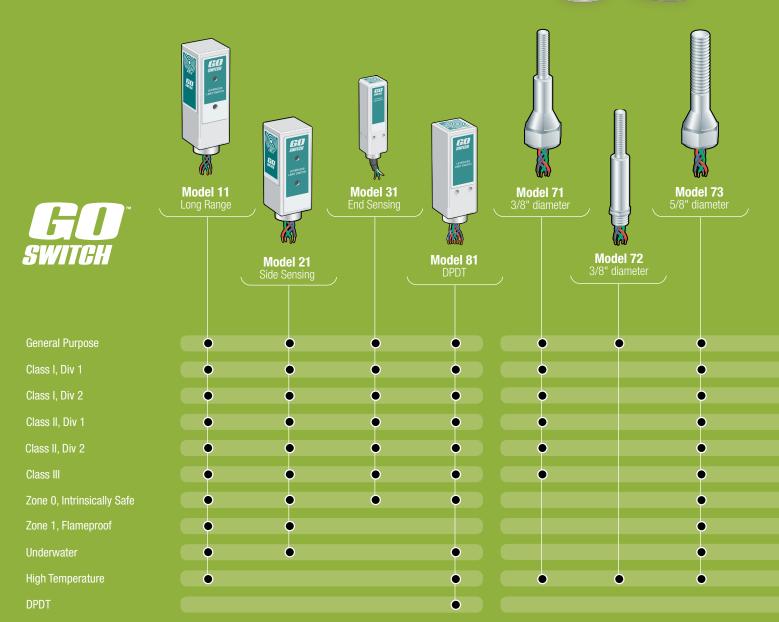












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Extended Sensing

Precision Sensing

GO™ Switches offer the following features and benefits: **Solutions Features** Eliminate broken or bent lever arms, poor Proximity triggering with ferrous metal and magnetic targets - no exposed moving parts mechanical alignment, and poor repeatability Extended sensing with Eliminates the need to purchase/acquire a use of target magnets different device to obtain extended sensing Immune to electrical noise, weld fields, Eliminate electrical problems common to and radio frequency interference inductive proximity sensors Consume no power to operate Eliminate leakage current and voltage drops Can be wired AC or DC. Flexibility to cover a variety of application N/O or N/C, in series or parallel needs with fewer part numbers All-metal housings with contacts potted Performance is not affected by dust, dirt. and sealed from the environment moisture, or most caustics, corrosives, or chemicals Multiple wiring options, including lead Easy installation and seamless integration wires, cables, quick disconnects, etc. into your existing plant wiring standards A wide variety of hazardous area Compliance with intrinsically safe, explosion certifications for Zone 0, 1, and 2 proof, and non-incendive requirements Operating temperatures ranging from Ability to monitor plant processes in areas -50°C (-58°F) to 204°C (400°F). too hot or too cold for conventional sensors Model 7L Model 77 Model 75 **Model 7H** Model 71 Model 74 Model 76 Model 7G

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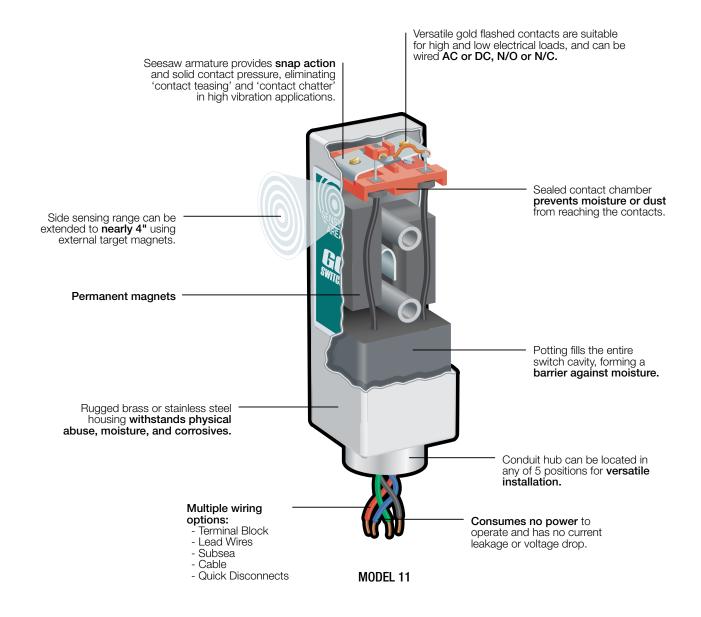
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GO™ SWITCH - EXTENDED SENSING

Built to last in the most demanding conditions

GO Switch models 11, 21, 31 and 81 are the ideal replacements for traditional mechanical limit switches. Sealed contacts, rugged housings, non-contact detection of ferrous metal & magnetic targets, and snap action response make these switches the ultimate problem solvers for troublesome mechanical limit switch applications.







Models 11, 21, 31, and 81 were the world's original GO[™] Switches. Their simple design, rugged housings, long sensing ranges, and global approvals make these switches the ideal choice wherever reliable proximity sensing is needed. Some features common to all these models include a standard operating temperature range of -58°F to 221°F (-50°C to 105°C) and gold-plated SPDT dry contacts.

Model 11

Features



- Single Pole Double Throw (SPDT) 5A/240VAC, 10A/120VAC, 3A/24VDC
- AC/DC, NO/NC Wiring Flexibility
- -58°F to 221°F (-50°C to 105°C) operating temperature
- 3/8" (10mm) sensing distance (ferrous metal)
- Dry Contact
- Intrinsically Safe
- Side sensing
- Gold Plated Contacts

Options

- High Temperature: -58°F to +350°F (-50°C to +176°C)
- Brass or Stainless Steel 304 Housings
- Extended Sensing: 9/16" (14mm)
- · Terminal Block, Lead Wires, or Cables
- · Latching Contacts
- SubSea Connectors
- · Quick Disconnects Micro or Mini
- · Global Hazardous Area Approvals

Model 81

Features

- Double Pole Double Throw (DPDT) 5A/240VAC, 10A/120VAC, 3A/24VDC
- AC/DC, NO/NC Wiring Flexibility
- -58°F to 221°F (-50°C to 105°C) operating temperature
- 1/4" (6mm) Sensing Distance (Ferrous metal)
- Dry Contact
- · Intrinsically Safe
- End Sensing
- Gold Plated Contacts

Options

- High temperature: -58°F to 350°F (-50°C to 176°C)
- Single Pole Double Throw (SPDT) 10A/120VAC, 3A/24VDC
- Brass or Stainless Steel 304 Housings
- Lead Wires or Cables
- · SubSea Connectors
- · Quick Disconnects Mini
- CSA/UL Hazardous Area Approvals



Model 21

Features

- · Single Pole Double Throw (SPDT) 5A/240VAC, 10A/120VAC, 3A/24VDC
- AC/DC, NO/NC Wiring Flexibility
- -58°F to 221°F (-50°C to 105°C) operating temperature
- 3/8" (10mm) Sensing Distance (Ferrous Metal)
- Dry Contact
- · Intrinsically Safe
- Side sensing
- Gold Plated Contacts

Options

- Brass or Stainless Steel 304 Housings
- · Terminal Block, Lead Wires, or Cables
- · Latching Contacts
- · SubSea Connectors
- · Quick Disconnects Micro or Mini
- Global Hazardous Area Approvals



Model 31

Features

- · Single Pole Double Throw (SPDT) 3A/240VAC, 6A/120VAC, 2A/24VDC
- AC/DC, NO/NC Wiring Flexibility
- -58°F to 221°F (-50°C to 105°C) operating temperature
- o 1/4" (6mm) Sensing Distance (Ferrous metal)
- Dry Contact
- Intrinsically Safe
- End sensing
- Gold Plated Contacts

Options

- Lead Wires or Cables
- · Quick Disconnects Micro or Mini
- · CSA/FM Hazardous Area Approvals



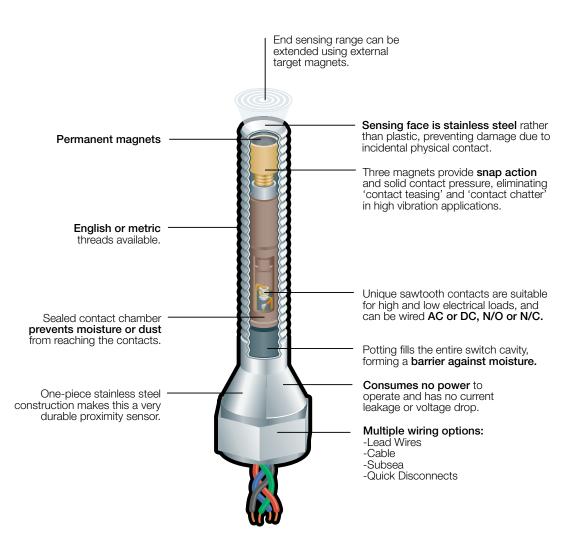


GO[™] **SWITCH - PRECISION SENSING** Built to last in the most demanding conditions

GO'switch

With all stainless steel construction, flexible AC/DC, NO/NC, and SPDT/DPDT contact configurations, superior corrosion resistance, and global certifications for all hazardous areas, 70 Series GO Switches outperform inductive proximity switches in the toughest applications.





MODEL 73

GO™ SWITCH - PRECISION SENSING

Built to last in the most demanding conditions



Single Pole Double Throw (SPDT) 2A/240VAC, 4A/120VAC, 3A/24VDC

- · AC/DC, NO/NC Wiring Flexibility
- · -58°F to 221°F (-50°C to 105°C) operating temperature
- o 0.040" (1mm) Sensing Distance (Ferrous metal)
- Dry Contact
- · Intrinsically Safe
- End Sensing
- Palladium Silver Contacts

Options

- High Temperature: -58°F to +400°F (-50°C to +204°C)
- Stainless Steel 303 or 316 Housings
- · Lead Wires or Cables
- · Quick Disconnects Micro
- o 3/8" or M12 metric thread
- · CSA/UL Hazardous Area Approvals

Model 72

Features

- Single Pole Double Throw (SPDT) 2A/240VAC, 4A/120VAC, 3A/24VDC
- · AC/DC, NO/NC Wiring Flexibility
- -58°F to 221°F (-50°C to 105°C) operating temperature
- o 0.040" (1mm) Sensing Distance (Ferrous metal)
- Dry Contact
- Intrinsically Safe
- End Sensing
- · Palladium Silver Contacts

Options

- High Temperature: -58°F to +400°F (-50°C to +204°C)
- Stainless Steel 303 or 316 Housings
- · Lead Wires or Cables
- · Quick Disconnects Micro
- o 3/8" or M12 metric thread



Model 73

Features

- Single Pole Double Throw (SPDT) 2A/240VAC, 4A/120VAC, 3A/24VDC
- AC/DC, NO/NC Wiring Flexibility
- -58°F to 221°F (-50°C to 105°C) operating temperature
- o 0.100" (2.5mm) Sensing Distance (Ferrous metal)
- Dry Contact
- · Intrinsically Safe
- · End Sensing
- · Palladium Silver Contacts

Options

- High Temperature: -58°F to +400°F (-50°C to +204°C)
- Stainless Steel 303 or 316 Housings
- · Pressure Rating: 2,000, 3,500, 5,000, 10,000 PSI, (140, 240, 345, 690 bars)
- · Lead Wires or Cables
- · SubSea Connectors
- Hermetic Seal
- · Quick Disconnects Micro or Mini
- 5/8" or M18 metric thread
- Global Hazardous Area Approvals

Model 74

Features

- Single Pole Double Throw (SPDT) 2A/240VAC, 4A/120VAC, 3A/24VDC
- AC/DC, NO/NC Wiring Flexibility
- -58°F to 221°F (-50°C to 105°C) operating temperature
- o 0.100" (2.5mm) Sensing Distance (Ferrous metal)
- Dry Contact
- Intrinsically Safe
- End Sensing
- · Palladium Silver Contacts

Options

- High Temperature: -58°F to +400°F (-50°C to +204°C)
- Stainless Steel 303 or 316 Housings
- · Pressure Rating: 2,000, 5,000, 10,000 PSI (140, 240, 690 bars)
- Lead Wires or Cables
- Water Resistant Squeeze Connectors
- · Quick Disconnects Micro
- o 5/8" or M18 metric thread
- · ATEX/IECEx Hazardous Area Approvals



Model 75

Features

- Single Pole Double Throw (SPDT) 2A/240VAC, 4A/120VAC, 3A/24VDC
- AC/DC, NO/NC Wiring Flexibility
- -58°F to 221°F (-50°C to 105°C) operating temperature
- o 0.100" (2.5mm) Sensing Distance (Ferrous metal)
- Dry Contact
- Intrinsically Safe
- End Sensing
- Palladium Silver Contacts

Options

- High Temperature: -58°F to +400°F (-50°C to +204°C)
- Stainless Steel 303 or 316 Housings
- Pressure Rating: 2,000, 5,000, 10,000 PSI (140, 240, 690 bars)
- · Lead Wires or Cables
- SubSea Connectors
- Hermetic Seal
- Quick Disconnects Micro or Mini
- o 5/8" or M18 metric thread
- Global Hazardous Area Approvals

Model 76 **Features**

- Single Pole Double Throw (SPDT) 2A/240VAC, 4A/120VAC, 3A/24VDC
- AC/DC, NO/NC Wiring Flexibility
- -58°F to 221°F (-50°C to 105°C) operating temperature
- o 0.100" (2.5mm) Sensing Distance (Ferrous metal)
- Dry Contact
- · Intrinsically Safe
- End Sensing
- · Palladium Silver Contacts

Options

- High Temperature: -58°F to +400°F (-50°C to +204°C)
- Stainless Steel 303 or 316 Housings
- · Pressure Rating: 2,000, 5,000, 10,000 PSI (140, 240, 690 bars)
- Lead Wires or Cables
- · Water Resistant Squeeze Connectors
- · Quick Disconnects MicrO
- o 5/8" or M18 metric thread





Model 7A

Features

- o 3.5 SCFM nominal flow rate
- 60 PSI (4 bars) max air supply
- -40°F to 221°F (-40°C to 105°C) operating temperature
- o 0.062" (1.5mm) Sensing Distance (Ferrous metal)
- End Sensing
- · Stainless Steel 303 Housing
- 5/8" Thread
- Plunger

Options

o 303 Stainless Steel base



Model 7H

Features

- Double Pole Double Throw (DPDT) 1.5A/240VAC, 3A/120VAC, 1A/24VDC
- · AC/DC, NO/NC Wiring Flexibility
- -58°F to 221°F (-50°C to 105°C) operating temperature
- 0.090" (2.3mm) Sensing Distance (Ferrous metal)
- Dry Contact
- Intrinsically Safe
- End Sensing
- Palladium Silver Contacts

Options

- High Temperature: -58°F to +400°F (-50°C to +204°C)
- Stainless Steel 303 or 316 Housings
- Lead Wires or Cables
- Quick Disconnects Mini
- 5/8" thread



Model 7G

Features

- Double Pole Double Throw (DPDT) 1.5A/240VAC, 3A/120VAC, 1A/24VDC
- · AC/DC, NO/NC Wiring Flexibility
- · -58°F to 221°F (-50°C to 105°C) operating temperature
- o 0.090" (2.3mm) Sensing Distance (Ferrous metal)
- Dry Contact
- · Intrinsically Safe
- End Sensing
- · Palladium Silver Contacts

Options

- Single Pole Double Throw (SPDT) 2A/240VAC, 4A/120VAC, 1A/24VDC
- High Temperature: -58°F to +400°F (-50°C to +204°C)
- o Stainless Steel 303 or 316 Housings
- · Lead Wires or Cables
- · Hermetic Seal
- · Quick Disconnects Mini
- 5/8" or M18 metric thread
- Global Hazardous Area Approvals



Model 77

Features

- Single Pole Double Throw (SPDT), 2A/240VAC, 4A/120VAC, 3A/24VDC
- AC/DC, NO/NC Wiring Flexibility
- -58°F to 221°F (-50°C to 105°C) operating temperature
- o 0.100" (2.5mm) Sensing Distance (Ferrous metal)
- Dry Contact
- · Intrinsically Safe
- · End Sensing
- · Palladium Silver Contacts

Options

- High Temperature: -58°F to +400°F (-50°C to +204°C)
- Stainless Steel 303 or 316 Housings
- · Pressure Rating: 2,000, 5,000, 10,000 PSI (140, 240, 690 bars)
- · Lead Wires or Cables
- SubSea Connectors
- · Quick Disconnects Micro or Mini
- o 5/8" or M18 metric thread
- · Global Hazardous Area Approvals



Model 7I

Features

- Double Pole Double Throw (DPDT) 1.5A/240VAC, 3A/120VAC, 1A/24VDC
- · AC/DC, NO/NC Wiring Flexibility
- · -58°F to 221°F (-50°C to 105°C) operating temperature
- o 0.090" (2.3mm) Sensing Distance (Ferrous metal)
- Dry Contact
- · Intrinsically Safe
- End Sensing
- · Palladium Silver Contacts

Options

- High Temperature: -58°F to +400°F (-50°C to +204°C)
- Stainless Steel 303 or 316 Housings
- Lead Wires or Cables
- · Quick Disconnects Mini
- 5/8" thread
- · Global Hazardous Area Approvals



Model 7L

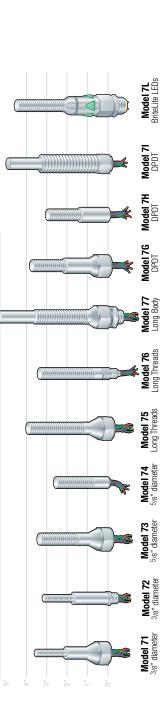
Features

- Single Pole Double Throw (SPDT) 0.25A/120VAC, 0.25A/24VDC
- AC/DC, NO/NC Wiring Flexibility
- -40°F to 160°F (-40°C to 71°C) operating temperature
- o 0.100" (2.5mm) Sensing Distance (Ferrous metal)
- End Sensing
- Stainless Steel 316 Housing
- Palladium Silver Contacts

Options

- · Lead Wires or Cables
- · Quick Disconnects Mini or Micro
- o 5/8" thread
- CSA/UL Hazardous Area Approvals







Most popular options

▼ 3 Standard sens		
✓ 1 Single Pole Double Throw (Form C)	2 Double Pole Double Throw (Form CC)	(Mindel / G, / H dilly)

71M12M x 100mm - 1/2" NPT conduit

71 3/8" x 3 15/16" - 1/2" NPT conduit

- sing .100" end sensing 7, 7L; Enclosure 2 or Standard sensing - .090" end sensing (Models 7G-7H; Enclosure 2 or 6 only)
- Outlet Position ing Range
- 2 303 stainless steel (rated 2,000 psi) (Sensing 3 or 6 only)

Enclosure Materials

- 3 HiPressure 303 stainless steel (rated 5,000psi) (Models 73-77; Sensing4)
- 4 HiPressure 303 stainless steel (rated 10,000 psi) (Models 73-77; Sensing 5; Approval 2, 7, 8 only)
- 6 316 stainless steel (rated 2,000 psi)

5 .060" end sensing (Models 73-77 only; Enclosure 4; Approvals 2, 7, or 8 only)

6 .040" end sensing (Models 71 & 72 only)

7GM 18M x 102mm - 1/2" NPT conduit

7LG 5/8" x 4 3/4" - 1/2" NPT conduit 7LR 5/8" x 4 3/4" - 1/2" NPT conduit

71 1" x 5 5/8" - 1/2" NPT conduit

7H 5/8" x 3 1/4" - No conduit

77 3/4" x 5 13/16" - 1/2" NPT conduit

7G 5/8" x 4" - 1/2" NPT conduit

76M18M x 81mm - No conduit hub

75M 18M x 110mm - 1/2" NPT conduit

76 5/8" x 3 3/16" - No conduit

75 5/8" x 4 5/16" - 1/2" NPT conduit

74M 18M x 70mm - No conduit

74 5/8" x 2 3/4" - No conduit

73M18M x 92mm - 1/2" NPT conduit

73 5/8" x 3 5/8" - 1/2 NPT conduit

72M12M x 86mm - No conduit

72 3/8" x 3 3/8" - No conduit

4. 072" end sensing (Models 73-77; Enclosure 3 or 7 only) (Approvals 2, 7 or 8 only) (Approval 3 if enclosure is 7)

- 7 HiPressure 303 stainless steel (rated 3,500psi) (Models 73, 75, 77; Sensing 4; Approval 3 only)
- 6 CSA CI I, Div 2 Groups A-D; CI II, Div 2 Groups E-G; CI III (Models 71, 73, 75, 77 & 76) (Wiring A, B, or F) (Lead seal req'd within 18") ✓ 4 CSA CI I Div 1 Groups A-D; CI II Div 1, Groups E-G; CI III
 (Models 71, 73, 75, 77 & 76)
 (Lead seal req'd within 18") 7 CSA General Purpose

3 UL CI I Div 1 & 2 Groups A-D: CI II Div 1 & 2, Groups E-G (Models 71, 73, 75, 77 & 7G) (Wiring A, B, or F) (Lead seal req'd within 18")

2 HiTemp to 400°F (Wiring must be F)

144" Greater than 144" - specify length in 5ft, increments

Lead Wires - 18 Gauge (DPDT = 20 gauge) **A2** 36" **A3** 72"

144" Greater than 144" - specify length in 5ft. increments

Cable - 18 Gauge (DPDT = 22 guage) **B2** 36" **B3** 72"

- 8 UL General Purpose
- 9 ATEX/IEC Ex. Zone 1 Ex d IIC; Ex tD; A21; IP66 T85C (-20C to +50C) (Model 73, 75, 77, 76 & 7) (Wiring H for HiTemp to +150C)

144" Greater than 144" - specify length in 5ft, increments

Water Resistant Squeeze Connector | Modes 72.74, 76 only) | C2 36" | C3 72" | C4 144" - specify length

Mini Change Connector (Models 71, 73, 75, 77, 76 only)
(Approval; 7 or 8 only; 3 pin is 8 only)
DCB. 4 pin
DCB. 4 pin
DCB. 5 pin
DCB. 5 pin
DCB. 7 pin (76 only)

- T ATEX/IEC Ex Zone 1 Ex d IIC; Ex tD; A21; IP66 T85C (-20C to +50C) (Hermetically Sealed) (Model 73 & 7G-1 only) (Wiring H for HiTemp to +150C) F ATEX/IEC Ex Zone 0Ex ia IIC T6 Ga Ex iD IIIC T85C Da (Tamb = -20C to +50C) (Hermetically sealed) (Model 73 & 7G-1 only)

Micro Change Connector (Models 72, 74, 76) (Approval 7 or 8 only; 3 pin is 8 only) DBA 3 pin DBO 4 pin

- G ATEX/IEC Ex Zone 0, Ex ia IIC T4 Ga, Ex ID IIIC T135C Da (-20C to +100C) (Hermetically Sealed) (Model 73 & 7G-1 only; Wiring must be H)
- H ATEX/IEC Ex Zone 0, Ex ia IIC T3 Ga (-20C to +150C) (Hermetically Sealed) (Model 73 & 7G-1 only; Wiring must be H)

Sub Sea Connector (Modes '73, 75, 77) (Approval 7 or 8 only; 3 pin is 8 only) 300 3 pin 400 4 pin 800 8 pin (76 only) 305 3 pin 90° 40 4 pin 90° 40 4 pin 90° 40 4 pin 90° 40 5 pin 90° 40

- . INMETRO BR-Ex d Gb, BR-Ex tD A21 T85C (-20C to +50C) (Hermetically sealed, Model 73 & 7G-1 only) (Wring H for HiTemp to +150C)
- MINMETRO BR-Ex d Gb, BR-Ex tD A21 T850C (-20C to +50C) (Models 73, 75, 77, 76 & 7) (Wiring H for HiTemp to +150C)

Hi-Temp'" Leads (Teffon insulated) 18 Gauge (DPDT = 20 gauge)

- N NEPSI Ex d IIC T3/T6 (Model 73 only) (Wiring H for HiTemp to +150C)
- ** Note: Lead seal not req'd for hermetically sealed contacts (Contact Form 1).

144" Greater than 144" - specify length in 5ft. Increments H-Temp" Leads (Peek insulated) (Models 71-77) 12 39" 13 79" 14 14" 14 14" 14 - __Greater than 144" - specify length in 5ft. Increments

Ordering Guide Fill in each box to create a complete model number.

Contact Form

Model

Sensing Range

Outlet Position

Enclosure Materials

Wiring Options

Approvals

GO™ SWITCH SPECIALTY SENSORS

Sensing Solutions for Process and Factory Automation



DISCRETE VALVE CONTROL SENSORS

35 Series GO™ Switches have set the standard for reliable performance in valve monitors.

With hermetically sealed contacts, low hysteresis, and superior resistance to vibration, moisture, contaminants, and temperature extremes, the 35 Series clearly outperforms any other valve monitoring switch or sensor available. When ordering valve position monitors and switchboxes, be sure to specify **GO Switch.**

Features

- · AC/DC, NO/NC flexibility
- · Intrinsically safe
- Hermetically sealed contacts

Options

- SPDT rated 4A/120VAC and 3A/24VDC (Copper coated with flat black lacquer)
- DPDT rated 4A/120VAC and 3A/24 VDC (Stainless steel housing)



GO SWITCHES FOR TOPWORX™ VALVE CONTROLLERS

Hermetically Sealed DPDT Contacts Stainless Steel Housing

HYDRAULIC/PNEUMATIC CYLINDER END-OF-STROKE SENSORS

Stroke-To-GO cylinder proximity sensors provide precise end-of-stroke position indication on pneumatic and hydraulic cylinders. Designed to exceed automotive industry standards, the housing is machined from stainless steel bar stock to handle pressures to 3,000 PSI (206 bars) operating (tested to UL's 4X burst requirement) while withstanding the extreme external conditions such as weld slag, coolants, cutting fluids, physical abuse and even high temperatures. Stroke-to-GO incorporates the same 70 Series GO Switch mechanism that has been proven in the field in the most rigorous applications. This unique design offers the greatest benefits in cylinder position end-of-stroke indication.

Features

- · SPST or SPDT contacts
- · AC/DC, NO/NC flexibility
- Stainless steel housings
- o 3,000 psi (206 bars) operating pressure
- -58°F to 221°F (-50°C to 105°C) operating temperature
- o 360° adjustable

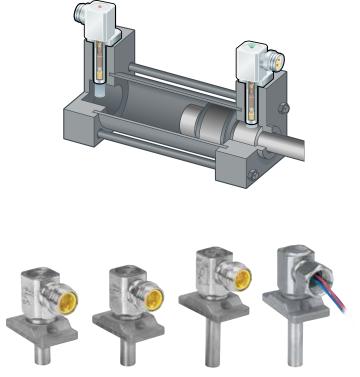
Options

- ∘ -58°F to 400°F (-50°C to 204°C) high temperature
- · Quick disconnect connector
- Underwater capabilities
- LED indication

7C

7D





7E

7F

GO™ SWITCH SPECIALTY SENSORS

Sensing Solutions for Process and Factory Automation

HIGH TEMPERATURE SENSORS

GO[™] Switch HiTemp[™] sensors are rated for continuous operation in temperatures up to 204°C/400°F. This proves especially useful in steam turbines as well as other high heat applications such as driers, boilers, aluminum die-casting, steel processing and valve position monitoring on steam valves.



PNEUMATIC VALVE

GO Switch Model 7A is a pneumatic valve designed to work with a 60 PSI air pilot signal. Incorporating the same GO Switch technology found in our popular model 70 series GO Switches, the 7A offers reliable pneumatic control in air logic systems. The 7A uses three permanent magnets and a push-pull plunger assembly to control a poppet. The switch operates with a snap-action response and low hysteresis, providing precision airline switching. This unique technology allows for non-contact detection of ferrous metal and magnetic targets to switch from the outlet port to the exhaust port.

Features

- · 3-port design (P = Supply, A = Outlet Port, E = Exhaust)
- .062" (1.5mm) Sensing distance (Ferrous metal)
- -40°F to 221°F (-40°C to 105°C) operating temperature
- · Intrinsically safe
- Operates small cylinders
- 60 PSI (4 bars) max air supply
- 3.5 SCFM nominal flow rate



70 SERIES JUNCTION HEAD

GO Switch models 71, 73, 75, 77, 7G, and 7I are available with a junction head option. The junction head carries an ATEX/IECEx 'e' coding. Combined with the GO Switch's ATEX/ IECEx 'd' coding, the complete GO Switch, junction head assembly carries an Ex 'de' coding. The Ex 'de' coding gives the GO Switch, junction head assembly an increased safety rating helping to reduce installation costs in Zone 1 hazardous areas. This option allows for termination directly into the switch.

Features

- Light-weight aluminum and stainless steel junction heads
- -40°F to 212°F (-40°C to 100°C) operating temperature
- Intrinsically safe
- · Zone 1, Ex 'de'



SUBMERSIBLE SENSORS

GO™ Switch submersible sensors are submersible up to depths of 7,010m/23,000ft and offer trouble-free position sensing in applications such as offshore oil platforms, lock and dam gates, ships and vessels, pin placement detection, wastewater rendering areas, bilge level, high pressure washdown, draw bridges and subsea valve position monitoring.



GO™ SWITCH POWER PLANT SOLUTIONS





GO Switches are the ideal solution for troublesome mechanical limit switch applications in power plants, including coal and ash handling equipment, soot blowers and wall blowers, dampers, igniters, feedwater heaters, hopper valves, water demineralization valves, and scrubber valves.

DEFENDER™ TURBINE TRIP MONITORS

In the power generation industry, reliability is a must. This is especially true when it comes to turbine control valves. But one of the more common difficulties in power plants is the typical limit switch arrangement on throttle, governor, intercept, and reheat stop valves. Conventional limit switches in this application are notorious for failing due to heat and physical abuse, and for falling out of tolerance and requiring readjustment.

The Defender provides dependable monitoring of throttle, governor, intercept, and reheat stop valves.

It is a self-contained, pre-wired system packed with up to ten GO™ Switches and is a drop-in replacement for existing limit switches on Westinghouse valves, and is easily adaptable to valves from General Electric and others.

Features

- · Easy switch setting
- Switches rated to 400°F/204°C
- Mil spec quick disconnect
- Heavy duty 11 Guage Steel (12"x10"x5")

TOPWORX™ GO NUCLEAR QUALIFIED SENSORS

GO Switch Nuclear Globally Qualified Sensors are designed for maximum, long-life dependability in Containment LOCA, Containment Non-LOCA (Harsh Duty), and Mild Duty applications. Unique and robust, the GO Switch is a "Set and Forget" sensor that will replace and exceed the operation and reliability of lever arm mechanical switches in Nuclear and Commercial applications.

Advantages of GO Switch Nuclear Qualified Sensors

- By far the highest, most up to date environmental qualifications for qualified life, temperature, pressure, seismic and radiation
- Direct replacement for most mechanical switch applications - Contact output N/O N/C AC or DC
- · No physical contact is required
- Only one internal moving part
- No lever arm to adjust
- Not affected by most caustics or chemicals
- Water-proof/submersible options
- Explosion-proof options
- Not influenced by RFI and EMC



TURBINE TRIP MONITOR SWITCH SYSTEM



QUICK DISCONNECTS & CORDSETS

Quality-engineered connectors and cordsets make installation and maintenance a snap. Standard designs are shown, with custom connectors available on special order. Refer to the Wiring Options portion of each GO Switch Ordering Guide for detailed information.

MICRO CHANGE™ QUICK DISCONNECT 22 gauge (3 pin .23" dia.; 4 pin .25 dia.; 5 pin .26 dia.) molded PVC anodized aluminum shell rated 221°F (105°C) 300V Available on all GO Switches

MINI CHANGE™ QUICK DISCONNECT

16 gauge (3 pin .41" dia.; 4 pin .44" dia.; 5 pin .52" dia.; 7 pin .54 dia.) molded PVC anodized aluminum shell rated 221°F (105°C) 600V

Available on most GO Switches



WATER RESISTANT SOUEEZE CONNECTOR

Stainless steel water resistant strain relief. Approx. 1" (25 mm) in length.

Available on GO Switch Models 72, 74, 76, 7C, 7D, 7E and 7F



HIGH PRESSURE SUBSEA OUICK DISCONNECT

Molded NeopreneTM Quick Disconnect with DelrinTM lock-sleeves. Provides water-tight seal, safety and quick change-out. Overall length of connector is 2.9" (74 mm) X 1.23" (31 mm) dia.

Available on 10, 20, 70, 80 Series and Stroke to GO Switches



HIGH PRESSURE RIGHT ANGLE SUBSEA QUICK DISCONNECT

Overall length of connector is 2.85" (72 mm) X .65" (17 mm).



MOUNTING BRACKETS



Standard mounting brackets are available to cover most GO Switch installations. They are designed to provide secure installation without interfering with the operation of the switch.

HEAVY DUTY MOUNTING BRACKET

Side mount bracket for 10 Series **GO Switches**



UNIVERSAL MOUNTING BRACKE **FOR 10/20 SERIES**

Universal mounting bracket for 10 Series and 20 Series GO Switches



COMBINATION COVER PLATE AND MOUNTING BRACKET

Bottom mount for 10 or 20 Series **GO Switches**



UNIVERSAL MOUNTING BRACKET FOR 80 SERIES

Side mount bracket adapts 80 Series GO Switches for rotary valve position indication



STRAP BRACKET

Strap brackets for 30 Series **GO Switches**



HEAVY DUTY "L" MOUNTING BRACKET

"L" bracket for 70 Series Model 73, 74, 75, 76 & 7G GO Switches



COVER PLATES

Cover plate for 10 and 20 Series GO Switches. Bottom mount cover plate/conduit for 10 and 20 Series GO Switches. Furnished with gasket and screws



JAM NUTS

Nickel plated brass jam nuts for 70 Series GO Switches



PARKER SEAL NUT AND WASHER

ThredSeal Kits for 70 Series GO Switches. Zinc plated steel with nitrile rubber (standard) or Viton (hi-temp or hydraulic fluids detergent) washer



SEALANT TAPE

Grafoil sealant tape for 70 Series GO Switches. Forms a leak-tight temperature stable joint. Recommended for high pressure and/or high temperature



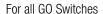
TARGET MAGNETS

Increase the Sensing Range of GO Switches

Standard magnets are available to increase the sensing distance of any GO Switch model. This feature gives the customer the flexibility of using the magnet as the target and increasing the sensing distance up to 10 times that of ferrous metal targets.

AMP3 MAGNET/RESIN COVER

AMC3 magnet in plastic molded bracket with mounting holes. 7/8" (22 mm) x 29/16" (65 mm) x 17/32" (13 mm) thick with 7/32" (6 mm) holes.





AMS7 MAGNET/STAINLESS

Magnet assembly. 2" (50 mm) x 1/2" (13mm) 7/16-20 UNC threads.

For 70 Series GO Switches



AMS4 MAGNET/STAINLESS COVER

AMC4 magnet molded into stainless steel cover, with mounting holes. 11/4" (32 mm) x 17/16" (37 mm) x 1" (25 mm) thick with 3/16" (5 mm) holes.

For all GO Switches



AMS12 MAGNET

Magnet assembly. 2 3/5" (66mm) x 7/8" (22mm) 7/16-20 UNF threads.

For 70 Series GO Switches



AMC5 MAGNET/STAINLESS COVER

AMC1 magnet molded into stainless cover with mounting holes. 7/8" (22 mm) x 29/16" (65 mm) x 17/32" (13 mm) thick with 7/32" (6 mm) holes.

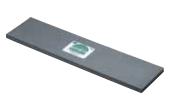
For all square GO Switches



AMF6 MAGNET (MACHINABLE)

Flexible sensing amplifier/external magnet. 3" (76 mm) x 12" (305 mm) x 3/8" (10 mm) thick.

For all square GO Switches



TARGET MAGNETS

Increase the Sensing Range of GO Switches















						3	
Model	Ferrous Metal Sensing Distance	AMP3 Sensing Distance	AMS4 Sensing Distance	AMF6 Sensing Distance	AMC5 Sensing Distance	AMS7 Sensing Distance	AMS12 Sensing Distance
11	10mm (3/8'')	25mm (1")	32mm (1-1/4")	62mm (2-7/16")	86mm (3-5/8")	-	-
21	10mm (3/8'')	25mm (1")	35mm (1-3/8")	62mm (2-7/16")	86mm (3-3/8")	-	-
31	6mm (1/4")	19mm (3/4")	25mm (1")	41mm (1-5/8")	67mm (2-5/8")	1	-
71	1mm (.040")	3mm (.120")	4mm (.150")	-	-	3mm (.130")	11mm (7/16")
72	1mm (.040")	3mm (.120")	4mm (.150")	-	-	3mm (.130")	11mm (7/16")
73	2.5mm (.100")	5mm (.200")	9mm (.350")	-	-	5mm (.200")	13mm (1/2")
74	2.5mm (.100")	5mm (.200")	9mm (.350")	-	-	5mm (.200")	13mm (1/2")
75	2.5mm (.100")	5mm (.200")	9mm (.350")	-	-	5mm (.200")	13mm (1/2")
76	2.5mm (.100")	5mm (.200")	9mm (.350")	-	-	5mm (.200")	13mm (1/2")
77	2.5mm (.100")	5mm (.200")	9mm (.350")	-	-	5mm (.200")	13mm (1/2")
7G	2mm (.090")	4mm (.150")	5mm (.200")	-	-	4mm (.150")	13mm (1/2")
7H	2mm (.090")	4mm (.150")	5mm (.200")	-	-	4mm (.150")	13mm (1/2")
71	2mm (.090")	4mm (.150")	5mm (.200")	-	-	4mm (.150")	13mm (1/2")
7L	2.5 (.100")	5mm (.200")	9mm (.350")	-	-	5mm (.200")	13mm (1/2")
81	6mm (1/4")	24mm (15/16")	35mm (1-3/8")	70mm (2-34")	98mm (3-7/8")	-	-

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GO Gets It.

Visit www.topworx.com for comprehensive information on our company, capabilities, and products – including model numbers, data sheets, specifications, dimensions, and certifications.

www.topworx.com

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Emerson Process Management is a powerful, global, single source of process improvement technology and expertise. We help major companies in selected industries optimize their plants and processes to achieve higher quality, greater reliability and faster time to market, while steadily advancing productivity and profitability. We can build it - providing experienced project management, engineering and a single point of accountability for the entire instrumentation and automation system. We can connect it -- seamlessly integrating people and technology at every level of the process. We can improve it -- creating more efficient utilization of energy and raw materials. And we can sustain it -- producing greater reliability, month after month, year after year. From the field, to the plant, to the bottom line -- where performance is the question, Emerson is the answer.

