The all-in-one proximity sensor and limit switch.

TopWorx™ 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.
A global leader in valve control and proximity sensing.

Emerson is a global leader in valve control and proximity sensing for the process industries. Our Topworx 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. Our wireless technologies and fieldbus protocols such as FOUNDATION Fieldbus, DeviceNet, AS-Interface, Profibus, and HART reduce installation costs and enable predictive maintenance.

**Global Hazardous Area Certifications**

In addition to high temperature +204 °C (+399 °F), cold temperature -50 °C (-58 °F), and sub-sea 7,010 m (23,000 ft) applications, TopWorx products are suitable for use in Flameproof/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, Emerson 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.
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.

![GO Switch Image]

**GO Switch Quick Selection Guide**

<table>
<thead>
<tr>
<th>Model 11</th>
<th>Model 21</th>
<th>Model 31</th>
<th>Model 81</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long Range</td>
<td>Side Sensing</td>
<td>End Sensing</td>
<td>DPDT</td>
</tr>
</tbody>
</table>

**Extended Sensing**

- General Purpose
- Class I, Div 1
- Class I, Div 2
- Class II, Div 1
- Class II, Div 2
- Class III
- Zone 0, Intrinsically Safe
- Zone 1, Flameproof
- Underwater
- High Temperature
- DPDT

**Precision Sensing**

- 3/8” diameter
- 3/8” diameter
- 5/8” diameter

- Zone 0, Intrinsically Safe
- Zone 1, Flameproof
- Underwater
- High Temperature
- DPDT
GO Switches offer the following features and benefits:

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

Seesaw armature provides snap action and solid contact pressure, eliminating ‘contact teasing’ and ‘contact chatter’ in high vibration applications.

Side sensing range can be extended to nearly 4" using external target magnets.

Permanent magnets

Optional 316L Stainless Steel housing withstands physical abuse, moisture, and corrosives.

Multiple wiring options:
- Terminal Block
- Lead Wires
- Subsea
- Cable
- Quick Disconnects

Conduit hub can be located in any of 5 positions for versatile installation.

Consumes no power to operate and has no current leakage or voltage drop.

Versatile gold flashed contacts are suitable for high and low electrical loads, and can be wired AC or DC, N/O or N/C.

Sealed contact chamber prevents moisture or dust from reaching the contacts.

Potting fills the entire switch cavity, forming a barrier against moisture.
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 -50 °C to 105 °C (-58 °F to +221 °F) 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
- -50 °C to 105 °C (-58 °F to +221 °F) operating temperature
- 10 mm (3/8 in) sensing distance (ferrous metal)
- Dry Contact
- Intrinsically Safe
- Side sensing
- Gold Plated Contacts

**Options**
- High Temperature: -50 °C to +176 °C (-58 °F to +350 °F)
- 316L Stainless Steel Housing
- Extended Sensing: 14 mm (9/16 in)
- Terminal Block, Lead Wires, or Cables
- Latching Contacts
- SubSea Connectors
- Quick Disconnects - Micro or Mini
- Global Hazardous Area Approvals

### Model 21
**Features**
- Single Pole Double Throw (SPDT)
- 5A/240VAC, 10A/120VAC, 3A/24VDC
- AC/DC, NO/NC Wiring Flexibility
- -50 °C to 105 °C (-58 °F to +221 °F) operating temperature
- 10 mm (3/8 in) Sensing Distance (Ferrous Metal)
- Dry Contact
- Intrinsically Safe
- Side sensing
- Gold Plated Contacts

**Options**
- 316L Stainless Steel Housing
- 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
- -50 °C to 105 °C (-58 °F to +221 °F) operating temperature
- 6 mm (1/4 in) Sensing Distance (Ferrous metal)
- Dry Contact
- Intrinsically Safe
- End Sensing
- Gold Plated Contacts

**Options**
- High temperature: -50 °C to +176 °C (-58 °F to +350 °F)
- Single Pole Double Throw (SPDT) 10A/120VAC, 3A/24VDC
- 316L Stainless Steel Housing
- Lead Wires or Cables
- SubSea Connectors
- Quick Disconnects – Mini
- CSA/UL Hazardous Area Approvals

### Model 31
**Features**
- Single Pole Double Throw (SPDT)
- 3A/240VAC, 6A/120VAC, 2A/24VDC
- AC/DC, NO/NC Wiring Flexibility
- -50 °C to +105 °C (-58 °F to +221 °F) operating temperature
- 6 mm (1/4 in) Sensing Distance (Ferrous metal)
- Dry Contact
- Intrinsically Safe
- End sensing
- Gold Plated Contacts

**Options**
- Stainless Steel Enclosure
- Lead Wires or Cables
- Quick Disconnects - Micro or Mini
- CSA/FM Hazardous Area Approvals
### GO™ Switch Ordering Guide - Extended Sensing

Choose one option from each category to build a complete model number.

<table>
<thead>
<tr>
<th>Model</th>
<th>Contact Form</th>
<th>Sensing Range</th>
<th>Outlet Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models 11, 21 &amp; 81</td>
<td>✓ 1 Single Pole Double Throw (Form C)</td>
<td>✓ 0 1/4&quot; end sensing (Model 81 only)</td>
<td>1 Behind sensing area (Models 11, 21 &amp; 81 only)</td>
</tr>
<tr>
<td>✓ 2 Double Pole Double Throw (Form CC) (Model 81 Only)</td>
<td>1 Standard sensing - 3/8&quot; side sensing (Model 11 &amp; 21 only)</td>
<td>2 Left of sensing area (Models 11 &amp; 21 only)</td>
<td></td>
</tr>
<tr>
<td>✓ 3 Single Pole Double Throw (Form C) Latching (Maintained contact) (Models 11 &amp; 21 only) (Outlet 2, 4 or 5 only)</td>
<td>✓ 2 Extended sensing - 9/16&quot; side sensing (Contact form must be 1 or 3) (Model 11 only)</td>
<td>3 Right of sensing area (Models 11 &amp; 21 only)</td>
<td></td>
</tr>
<tr>
<td>5 Double Make Double Break, two-circuit, Form Z (Model 11 Only)</td>
<td>✓ 7 Precision sensing - 1/4&quot; side sensing (Minimal differential) (Models 11, 21 &amp; 31 only)</td>
<td>4 Same side as sensing area (Models 11 &amp; 21 only)</td>
<td></td>
</tr>
<tr>
<td>6 Double Make Double Break, two-circuit, Form Z Latching (maintained contact) (Model 11 Only)</td>
<td>5 Bottom of enclosure</td>
<td>5 Bottom of enclosure</td>
<td></td>
</tr>
</tbody>
</table>

### Ordering Guide

Fill in each box to create a complete model number.
<table>
<thead>
<tr>
<th>Enclosure Materials</th>
<th>Approvals</th>
<th>Wiring Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ 1 Standard enclosure</td>
<td>✓ CSA / FM CI, Div 2, Grps A-D; CI II, Div 1 &amp; 2, Grps E-G, CI III</td>
<td>✓ Terminal Block (Models 11 and 21 only)</td>
</tr>
<tr>
<td>✓ 2 316L Stainless steel*</td>
<td>- UL CI I, Div 1; Grps A-D; CI II, Div 1 Grps E-G; CI III</td>
<td>00 1/2&quot;- 14 NPT</td>
</tr>
<tr>
<td></td>
<td>- CSA / FM CI I, Div 1; Grps A-D; CI II, Div 1; Grps E-G; CI III</td>
<td>00M M20</td>
</tr>
<tr>
<td></td>
<td>✓ CSA / FM CI I, Div 2; Grps A-D; CI II, Div 2; Grps F,G; CI III</td>
<td>✓ Lead Wires - 18 Gauge, PVC insulated</td>
</tr>
<tr>
<td></td>
<td>- cUL Certified General Purpose</td>
<td>A2 3'</td>
</tr>
<tr>
<td></td>
<td>✓ UL General Purpose</td>
<td>A3 6'</td>
</tr>
<tr>
<td></td>
<td>- ATEX/IECEx Zone 0</td>
<td>A4 12'</td>
</tr>
<tr>
<td></td>
<td>Ex ia IIC T6 Ga, Ex ia IIC T85 °C Da, (-40 °C≤Ta≤50 °C)</td>
<td>A5 25'</td>
</tr>
<tr>
<td></td>
<td>(Wiring must be 5 or 00/00M) (Models 11, 21 &amp; 81 only)</td>
<td>A6 50'</td>
</tr>
<tr>
<td></td>
<td>- ATEX/IECEx Zone 0</td>
<td>A7 100'</td>
</tr>
<tr>
<td></td>
<td>Ex ia IIC T4 Ga, Ex ia IIC T135 °C Da, (-40 °C≤Ta≤100 °C)</td>
<td>A8 250'</td>
</tr>
<tr>
<td></td>
<td>- ATEX/IECEx Zone 0</td>
<td>Cable - 16 Gauge, SO rubber insulated</td>
</tr>
<tr>
<td></td>
<td>Ex ia IIC T3 Ga, Ex ia IIC T 200°C Da,(-40 °C≤Ta≤150 °C)</td>
<td>B2 3'</td>
</tr>
<tr>
<td></td>
<td>✓ Regional Certifications Available</td>
<td>B3 6'</td>
</tr>
<tr>
<td></td>
<td>* Approvals are model specific. Please contact your TopWorx distributor or consult the price guide to build a part number with specific approval.</td>
<td>B4 12'</td>
</tr>
<tr>
<td></td>
<td>* All-welded stainless steel switches are recommended for wet or harsh environments.</td>
<td>B5 25'</td>
</tr>
<tr>
<td></td>
<td>✓ Approvals are model specific. Please contact your TopWorx distributor or consult the price guide to build a part number with specific approval.</td>
<td>B6 50'</td>
</tr>
<tr>
<td></td>
<td>✓ Approvals are model specific. Please contact your TopWorx distributor or consult the price guide to build a part number with specific approval.</td>
<td>B7 100'</td>
</tr>
<tr>
<td></td>
<td>✓ Approvals are model specific. Please contact your TopWorx distributor or consult the price guide to build a part number with specific approval.</td>
<td>B8 250'</td>
</tr>
</tbody>
</table>

*Regional Certifications Available

**Enclosure Materials**

- 1 Standard enclosure
- 2 316L Stainless steel*

* All-welded stainless steel switches are recommended for wet or harsh environments.

**Approvals**

- CSA / FM CI, Div 2, Grps A-D; CI II, Div 1 & 2, Grps E-G, CI III
- UL CI I, Div 1; Grps A-D; CI II, Div 1 Grps E-G; CI III
- CSA / FM CI I, Div 1; Grps A-D; CI II, Div 1; Grps E-G; CI III
- CSA / FM CI I, Div 2; Grps A-D; CI II, Div 2; Grps F,G; CI III
- cUL Certified General Purpose
- UL General Purpose
- ATEX/IECEx Zone 0
  - Ex ia IIC T6 Ga, Ex ia IIC T85 °C Da, (-40 °C≤Ta≤50 °C) (Wiring must be 5 or 00/00M) (Models 11, 21 & 81 only)
- ATEX/IECEx Zone 0
  - Ex ia IIC T4 Ga, Ex ia IIC T135 °C Da, (-40 °C≤Ta≤100 °C)
- ATEX/IECEx Zone 0
  - Ex ia IIC T3 Ga, Ex ia IIC T 200°C Da,(-40 °C≤Ta≤150 °C)

**Wiring Options**

- Terminal Block (Models 11 and 21 only)
  - 00 1/2"- 14 NPT
  - 00M M20
- Lead Wires - 18 Gauge, PVC insulated
  - A2 3'
  - A3 6'
  - A4 12'
  - A5 25'
  - A6 50'
  - A7 100'
  - A8 250'
- Cable - 16 Gauge, SO rubber insulated
  - B2 3'
  - B3 6'
  - B4 12'
  - B5 25'
  - B6 50'
  - B7 100'
  - B8 250'
- Mini Change Connector (Models 11, 21, 31 & 81) (Approval 7 or 8 only)
  - DCA 3 pin
  - DCD 4 pin
  - DCH 7 pin (Model 81 only)
- Quick Disconnect M12x1 (Area Classification must be 7 or 8) (Models 11, 21 & 31 only)
  - DMD 4 pin
- SubSea Connector (Models 11, 21 & 81) (Enclosure 2 or 4 only) (Approval 7 or 8 only)
  - 3DD 3 pin
  - 4DD 4 pin
  - 8DD 8 pin (Model 81 only)
  - 3DE 3 pin 90°
  - 4DE 4 pin 90°
- Hi-Temp Lead Wires - 18 Gauge, Teflon™ insulated
  - F2 3'
  - F3 6'
  - F4 12'
  - F5 25'
  - F6 50'
  - F7 100'
  - F8 250'
- Cable- 18 Gauge Blue Silicone (Area Classification must be F, G or H) (Models 11, 21 & 81 only)
  - S2 3'
  - S3 6'
  - S4 12'
  - S5 25'
  - S6 50'
  - S7 100'
  - S8 250'  * Wiring options are model specific. Please contact your TopWorx distributor to select a specific wiring option.

* Approvals are model specific. Please contact your TopWorx distributor to select a specific wiring option.
GO™ Switch - Precision Sensing
Built to last in the most demanding conditions

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.

End sensing range can be extended using external target magnets.

Sensing face is stainless steel rather than plastic, preventing damage due to incidental physical contact.

Three magnets provide snap action and solid contact pressure, eliminating ‘contact teasing’ and ‘contact chatter’ in high vibration applications.

Sealed contact chamber prevents moisture or dust from reaching the contacts.

One-piece stainless steel construction makes this a very durable proximity sensor.

End sensing range can be extended using external target magnets.

Sensing face is stainless steel rather than plastic, preventing damage due to incidental physical contact.

Three magnets provide snap action and solid contact pressure, eliminating ‘contact teasing’ and ‘contact chatter’ in high vibration applications.

Sealed contact chamber prevents moisture or dust from reaching the contacts.

One-piece stainless steel construction makes this a very durable proximity sensor.

Unique sawtooth contacts are suitable for high and low electrical loads, and can be wired AC or DC, N/O or N/C.

Potting fills the entire switch cavity, forming a barrier against moisture.

Consumes no power to operate and has no current leakage or voltage drop.

Multiple wiring options:
- Lead Wires
- Cable
- Subsea
- Quick Disconnects

MODEL 73

All 70 Series Models

Temperature Rating:

71-77: -40 °F (-40 °C) to +221 °F (+105 °C) Std.*
71-77, 7G, 7H: HiTemp to +400 °F (+204 °C)*
7L: -40 °F (-40 °C) to +160 °F (+71 °C)*

* Reference certificates for variations to temperature rating.
Model 71

Features
• Single Pole Double Throw (SPDT)
  2A/240VAC, 4A/120VAC, 3A/24VDC
• AC/DC, NO/NC Wiring Flexibility
• -50 °C to +105 °C (-58 °F to +221 °F)
  operating temperature
• 1 mm (0.040 in) Sensing Distance (Ferrous metal)
• Dry Contact
• Intrinsically Safe
• End Sensing
• Palladium Silver Contacts
• Stainless Steel 316L Housings

Options
• High Temperature: -50 °C to +204 °C
  (-58 °F to +400 °F)
• Lead Wires or Cables
• Quick Disconnects – Micro
• 3/8” or M12 metric thread
• Global Hazardous Area Approvals

Model 72

Features
• Single Pole Double Throw (SPDT)
  2A/240VAC, 4A/120VAC, 3A/24VDC
• AC/DC, NO/NC Wiring Flexibility
• -50 °C to +105 °C (-58 °F to +221 °F)
  operating temperature
• 1 mm (0.040 in) Sensing Distance (Ferrous metal)
• Dry Contact
• Intrinsically Safe
• End Sensing
• Palladium Silver Contacts
• Stainless Steel 316L Housings

Options
• High Temperature: -50 °C to +204 °C
  (-58 °F to +400 °F)
• Lead Wires or Cables
• Quick Disconnects – Micro
• 3/8” or M12 metric thread
• ATEX/IECEx Hazardous area approvals

Model 73

Features
• Single Pole Double Throw (SPDT)
  2A/240VAC, 4A/120VAC, 3A/24VDC
• AC/DC, NO/NC Wiring Flexibility
• -50 °C to +105 °C (-58 °F to +221 °F)
  operating temperature
• 2.5 mm (0.100 in) Sensing Distance (Ferrous metal)
• Dry Contact
• Intrinsically Safe
• End Sensing
• Palladium Silver Contacts
• Stainless Steel 316L Housings

Options
• High Temperature: -50 °C to +204 °C
  (-58 °F to +400 °F)
• Pressure Rating: 2,000
  5,000, 10,000 PSI, (140, 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
• -50 °C to +105 °C (-58 °F to +221 °F)
  operating temperature
• 2.5 mm (0.100 in) Sensing Distance (Ferrous metal)
• Dry Contact
• Intrinsically Safe
• End Sensing
• Palladium Silver Contacts
• Stainless Steel 316L Housings

Options
• High Temperature: -50 °C to +204 °C
  (-58 °F to +400 °F)
• Pressure Rating: 2,000, 5,000, 10,000 PSI
  (140, 240, 690 bars)
• Lead Wires or Cables
• Water Resistant Squeeze Connectors
• Quick Disconnects – Micro
• 5/8” or M18 metric thread
• ATEX/IECEx Hazardous Area Approvals
GO™ Switch - Precision Sensing
Built to last in the most demanding conditions

**Model 75**
**Features**
- Single Pole Double Throw (SPDT)
  2A/240VAC, 4A/120VAC, 3A/24VDC
- AC/DC, NO/NC Wiring Flexibility
- -50 °C to +105 °C (-58 °F to +221 °F) operating temperature
- 2.5 mm (0.100 in) Sensing Distance (Ferrous metal)
- Dry Contact
- Intrinsically Safe
- End Sensing
- Palladium Silver Contacts

**Options**
- High Temperature: -50 °C to +204 °C (-58 °F to +400 °F)
- Stainless Steel 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
- 5/8” or M18 metric thread
- Global Hazardous Area Approvals

**Model 7A**
**Features**
- 3.5 SCFM nominal flow rate
- 60 PSI (4 bars) max air supply
- -40 °C to +105 °C (-40 °F to +221 °F) operating temperature
- 1.5 mm (0.062 in) Sensing Distance (Ferrous metal)
- End Sensing
- Stainless Steel 303 Housing
- 5/8” Thread
- Plunger

**Options**
- 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
- -50 °C to +105 °C (-58 °F to +221 °F) operating temperature
- 2.3 mm (0.090 in) Sensing Distance (Ferrous metal)
- 316L Stainless Steel Housings
- Dry Contact
- Intrinsically Safe
- End Sensing
- Palladium Silver Contacts

**Options**
- High Temperature: -50 °C to +204 °C (-58 °F to +400 °F)
- 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
- -50 °C to +105 °C (-58 °F to +221 °F) operating temperature
- 2.3 mm (0.090 in) Sensing Distance (Ferrous metal)
- 316L Stainless Steel Housings
- Dry Contact
- Intrinsically Safe
- End Sensing
- Palladium Silver Contacts

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

Model 7L
Features
- Double Pole Double Throw (DPDT)
  1.5A/240VAC, 3A/120VAC, 1A/24VDC
- AC/DC, NO/NC Wiring Flexibility
- -50 °C to +105 °C (-58 °F to +221 °F) operating temperature
- 2.3 mm (0.090 in) Sensing Distance (Ferrous metal)
- 316L Stainless Steel Housings
- Dry Contact
- Intrinsically Safe
- End Sensing
- Palladium Silver Contacts

Options
- High Temperature: -50 °C to +204 °C (-58 °F to +400 °F)
- Lead Wires or Cables
- Quick Disconnects – Mini
- 5/8” 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
- -50 °C to +105 °C (-58 °F to +221 °F) operating temperature
- 2.5 mm (0.100 in) Sensing Distance (Ferrous metal)
- 316L Stainless Steel Housings
- Dry Contact
- Intrinsically Safe
- End Sensing
- Palladium Silver Contacts

Options
- High Temperature: -50 °C to +204 °C (-58 °F to +400 °F)
- Pressure Rating: 2,000, 5,000, 10,000 PSI (140, 240, 690 bars)
- Lead Wires or Cables
- SubSea Connectors
- Quick Disconnects – Micro or Mini
- 5/8” or M18 metric thread
- CSA/UL Hazardous Area Approvals

Model 7L
Features
- Single Pole Double Throw (SPDT)
  0.25A/120VAC, 0.25A/24VDC
- AC/DC, NO/NC Wiring Flexibility
- -40 °C to +71 °C (-40 °F to +160 °F) operating temperature
- 2.5 mm (0.100 in) Sensing Distance (Ferrous metal)
- End Sensing
- Stainless Steel 316 Housing
- Palladium Silver Contacts

Options
- Lead Wires or Cables
- Quick Disconnects – Mini or Micro
- 5/8” thread
- CSA/UL Hazardous Area Approvals
**GO™ Switch Ordering Guide - Precision Sensing**

Choose one option from each category to build a complete model number.

<table>
<thead>
<tr>
<th>Model</th>
<th>Contact Form</th>
<th>Sensing Range</th>
<th>Outlet Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>71</td>
<td>1 Single Pole Double Throw (Form C)</td>
<td>3 Standard sensing -.100' end sensing</td>
<td>5 Bottom of enclosure</td>
</tr>
<tr>
<td>71M</td>
<td>2 Double Pole Double Throw (Form CC) (Model 7G, 7CM, 7H, &amp; 7I only)</td>
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<tr>
<td>72</td>
<td>4.072' end sensing (Models 73, 75, 77, 74, 76, 73M, 74M, 75M, 76M, 77M only)</td>
<td>6.040' end sensing (Models 71 &amp; 72 only)</td>
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<tr>
<td>72M</td>
<td>5.060' end sensing (Models 73, 75, 77, 74, 76, 73M, 74M, 75M, 76M, 77M; Approvals 2, 7, or 8)</td>
<td>* For select Models only</td>
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</tr>
<tr>
<td>73</td>
<td>6.040' end sensing (Models 71 &amp; 72 only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>73M</td>
<td></td>
<td></td>
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<td>75M</td>
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</tr>
<tr>
<td>76M</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Ordering Guide**

Fill in each box to create a complete model number.

1. Single Pole Double Throw (Form C)
2. Double Pole Double Throw (Form CC) (Model 7G, 7CM, 7H, & 7I only)
3. Standard sensing -.100' end sensing
4. .072' end sensing (Models 73, 75, 77, 74, 76, 73M, 74M, 75M, 76M, 77M only)
5. .060' end sensing (Models 73, 75, 77, 74, 76, 73M, 74M, 75M, 76M, 77M; Approvals 2, 7, or 8)
6. .040' end sensing (Models 71 & 72 only)

**Model**

- 71 3/8" x 3 15/16" - 1/2" NPT conduit
- 71M 12M x 100mm - M20 Conduit Entry
- 72 3/8" x 3 3/8" - No conduit
- 72M 12M x 86mm - No conduit
- 73 5/8" x 3 5/8" - 1/2 NPT conduit
- 73M 18M x 92mm - M20 Conduit Entry
- 74 5/8" x 2 3/4" - No conduit
- 74M 18M x 70mm - No conduit
- 75 5/8" x 4 5/16" - 1/2" NPT conduit
- 75M 18M x 110mm - M20 Conduit Entry
- 76 5/8" x 3 3/16" - No conduit
- 76M 18M x 81mm - No conduit hub
- 77 3/4" x 5 13/16" - 1/2" NPT conduit
- 7G 5/8" x 4" - 1/2" NPT conduit
- 7GM 18M x 102mm - M20 Conduit Entry
- 7H 5/8" x 3 1/4" - No conduit
- 7I 1" x 5 5/8" - 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

**Contact Form**

- Single Pole Double Throw (Form C)
- Double Pole Double Throw (Form CC) (Model 7G, 7CM, 7H, & 7I only)
- Standard sensing -.100' end sensing
- .072' end sensing (Models 73, 75, 77, 74, 76, 73M, 74M, 75M, 76M, 77M only)
- .060' end sensing (Models 73, 75, 77, 74, 76, 73M, 74M, 75M, 76M, 77M; Approvals 2, 7, or 8)
- .040' end sensing (Models 71 & 72 only)

**Sensing Range**

- Bottom of enclosure
- Side entry with (Approval must be 2 or 8 and Wiring must be F)

**Outlet Position**

* For select Models only

**Note:** Lead seal not req'd for hermetically sealed contacts (Contact Form 1).

**Wiring Options**

- Lead Wires - 18 Gauge, PVC insulated (DPDT- 20 Gauge)
- Cable - 18 Gauge (DPDT = 22 guage)
- Water Resistant Squeeze Connector (Models 72, 74, 76 only) (Approval 7 or 8 only)
- Mini Change Connector (Models 71, 73, 75, 77, 7G only) (Approval 7 or 8 only; 3 pin is 8 only)
- DCA 3 pin
- DCD 4 pin
- Micro Change Connector (Models 72, 74, 76) (Approval 7 or 8 only; 3 pin is 8 only)
- DBA 3 pin
- DBD 4 pin
- SubSea Connector (Models 73, 75, 77) (Approval 7 or 8 only; 3 pin is 8 only)
- 3DD 3 pin
- 4DD 4 pin
- 8DD 8 pin (7G only)
- 3DE 3 pin 90°
- 4DE 4 pin 90°
- Hi-Temp Leads (Teflon™ insulated) 18 Gauge (DPDT = 20 gauge)
- Hi-Temp Leads (Peek insulated) (Models 71-77)
* Raychem, Silicone (Blue) and other QDC options available.

**More certifications available - consult TopWorx for a full list of Global and Regional Approvals**

**Approvals**

- Approvals are model specific. Please contact your TopWorx distributor or consult the price guide to build a part number with specific approval.
<table>
<thead>
<tr>
<th>Enclosure Materials</th>
<th>Approvals</th>
<th>Wiring Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ 6 316L stainless steel</td>
<td>✓ HiTemp to 400°F</td>
<td>✓ Lead Wires - 18 Gauge, PVC insulated (DPDT, 20 Gauge)</td>
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<tr>
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<td>✓ UL Cl I, Div 1, Grps A-D; Cl II, Div 1, Grps E-G; Cl III</td>
<td>A2 A3 A4 A5 A6 A7 A8</td>
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<tr>
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<td>✓ UL Cl I, Div 1, Grps A-D; Cl II, Div 1, Grps E-G; Cl III</td>
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</tr>
<tr>
<td>✓ ✓ ✓ cULus</td>
<td>✓ cUL General Purpose</td>
<td>✓ Cable - 18 Gauge (DPDT = 22 guage)</td>
</tr>
<tr>
<td>✓ ✓ ✓ cULus</td>
<td>✓ UL General Purpose</td>
<td>B2 B3 B4 B5 B6 B7 B8</td>
</tr>
<tr>
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<td>✓ ATEX/IEC Ex Zone 1 Ex db IIC T6 Gb, Ex tb IIIC T85°C Db, IP66 (-40°C ≤ Ta ≤ 50°C)</td>
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<tr>
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<tr>
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<td>C2 C3 C4 C5 C6 C7 C8</td>
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</tr>
<tr>
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<td>✓ Ex ia IIC T4 Ga, Ex id IIC T135°C Da (-40°C ≤ Ta ≤ 100°C)</td>
<td>✓ Mini Change Connector (Models 71, 73, 75, 77, 7G only) (Approval 7 or 8 only; 3 pin is 8 only)</td>
</tr>
<tr>
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<tr>
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<td>DCD 4 pin</td>
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<td>DBA 3 pin</td>
</tr>
<tr>
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<td>✓ ATEX/IEC Ex Zone 0 Ex ia IIC T3 Ga (-40°C ≤ Ta ≤ 150°C)</td>
<td>DBD 4 pin</td>
</tr>
</tbody>
</table>

More certifications available - consult TopWorx for a full list of Global and Regional Approvals

* Approvals are model specific. Please contact your TopWorx distributor or consult the price guide to build a part number with specific approval.

** Note: Lead seal not req’d for hermetically sealed contacts (Contact Form 1).
**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)

**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
- 3,000 psi (206 bars) operating pressure
- -50 °C to +105 °C (-58 °F to +221 °F) operating temperature
- 360° adjustable

**Options**
- -50 °C to +204 °C (-58 °F to +400 °F) high temperature
- Quick disconnect connector
- Underwater capabilities
- LED indication
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.

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.

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.

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.

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.

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GO™ Switch Power Plant Solutions
Sensing Solutions for the Power Generation Industry

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 204 °C (400 °F)
- 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
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 105 °C (221 °F) 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 105 °C (221 °F) 600V
Available on most GO Switches

**Water Resistant Squeeze Connector**
Stainless steel water resistant strain relief. Approx. 25 mm (1 in) in length.
Available on GO Switch Models 72, 74, 76, 7C, 7D, 7E and 7F

**High Pressure Right Angle SubSea Quick Disconnect**
Overall length of connector is 72 mm (2.85 in) x 17 mm x (0.65 in).
Available on 10, 20, 70, 80 Series and STG GO Switches

**High Pressure SubSea Quick Disconnect**
Molded Neoprene™ Quick Disconnect with Delrin™ lock-sleeves. Provides water-tight seal, safety and quick change-out. Overall length of connector is 74 mm x 31 mm (2.9 in x 1.23 in) dia.
Available on 10, 20, 70, 80 Series and Stroke to GO Switches.
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 Bracket 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

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. 22 mm (7/8 in) x 65 mm (29/16 in) x 13 mm (17/32 in) thick with 6 mm (7/32 in) holes.
For all GO Switches

**AMS7 Magnet/Stainless**
Magnet assembly.
50 mm (2 in) x 13 mm (1/2 in) 7/16-20 UNC threads.
For 70 Series GO Switches

**AMS4 Magnet/Stainless Cover**
AMC4 magnet molded into stainless steel cover, with mounting holes. 32 mm (1-1/4 in) x 37 mm (17/16 in) x 25 mm (1 in) thick with 5 mm (3/16 in) holes.
For all GO Switches

**AMS12 Magnet**
Magnet assembly.
66 mm (2-3/5 in) x 22 mm (7/8 in) 7/16-20 UNF threads.
For 70 Series GO Switches

**AMC5 Magnet/Stainless Cover**
AMC1 magnet molded into stainless cover with mounting holes. 22 mm (7/8 in) x 65 mm (29/16”) 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.
76 mm (3 in) x 305 mm (12 in) x 3/8” (10 mm) thick.
For all square GO Switches
<table>
<thead>
<tr>
<th>Model</th>
<th>Ferrous Metal Sensing Distance</th>
<th>AMP3 Sensing Distance</th>
<th>AMS4 Sensing Distance</th>
<th>AMF6 Sensing Distance</th>
<th>AMC5 Sensing Distance</th>
<th>AM57 Sensing Distance</th>
<th>AMS12 Sensing Distance</th>
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<tbody>
<tr>
<td>11</td>
<td>10 mm (3/8 in)</td>
<td>25 mm (1 in)</td>
<td>32 mm (1-1/4 in)</td>
<td>62 mm (2-7/16 in)</td>
<td>86 mm (3-5/8 in)</td>
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<td>21</td>
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<td>25 mm (1 in)</td>
<td>35 mm (1-3/8 in)</td>
<td>62 mm (2-7/16 in)</td>
<td>86 mm (3-3/8 in)</td>
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<td>-</td>
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<td>19 mm (3/4 in)</td>
<td>25 mm (1 in)</td>
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<tr>
<td>71</td>
<td>1 mm (.040 in)</td>
<td>3 mm (.120 in)</td>
<td>4 mm (.150 in)</td>
<td>-</td>
<td>-</td>
<td>3 mm (.130 in)</td>
<td>11 mm (7/16 in)</td>
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<td>1 mm (.040 in)</td>
<td>3 mm (.120 in)</td>
<td>4 mm (.150 in)</td>
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<td>-</td>
<td>3 mm (.130 in)</td>
<td>11 mm (7/16 in)</td>
</tr>
<tr>
<td>73</td>
<td>2.5 mm (.100 in)</td>
<td>5 mm (.200 in)</td>
<td>9 mm (.350 in)</td>
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<td>-</td>
<td>5 mm (.200 in)</td>
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<td>76</td>
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<td>77</td>
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<td>-</td>
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<td>13 mm (1/2 in)</td>
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<tr>
<td>7G-1</td>
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<td>9 mm (.350 in)</td>
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<td>-</td>
<td>5 mm (.200 in)</td>
<td>13 mm (1/2 in)</td>
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<tr>
<td>7G-2</td>
<td>2 mm (.090 in)</td>
<td>4 mm (.150 in)</td>
<td>5 mm (.200 in)</td>
<td>-</td>
<td>-</td>
<td>4 mm (.150 in)</td>
<td>13 mm (1/2 in)</td>
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<tr>
<td>7H</td>
<td>2 mm (.090 in)</td>
<td>4 mm (.150 in)</td>
<td>5 mm (.200 in)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>7L</td>
<td>2.5 mm (.100 in)</td>
<td>5 mm (.200 in)</td>
<td>9 mm (.350 in)</td>
<td>-</td>
<td>-</td>
<td>5 mm (.200 in)</td>
<td>13 mm (1/2 in)</td>
</tr>
<tr>
<td>81</td>
<td>6 mm (1/4 in)</td>
<td>25.4 mm (1 in)</td>
<td>35 mm (1-3/8 in)</td>
<td>69.8 mm (11/4 in)</td>
<td>98 mm (3-7/8 in)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
GO™ Switch – The all-in-one proximity sensor and limit switch.

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

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