GO Gets It. Driven Without Compromise
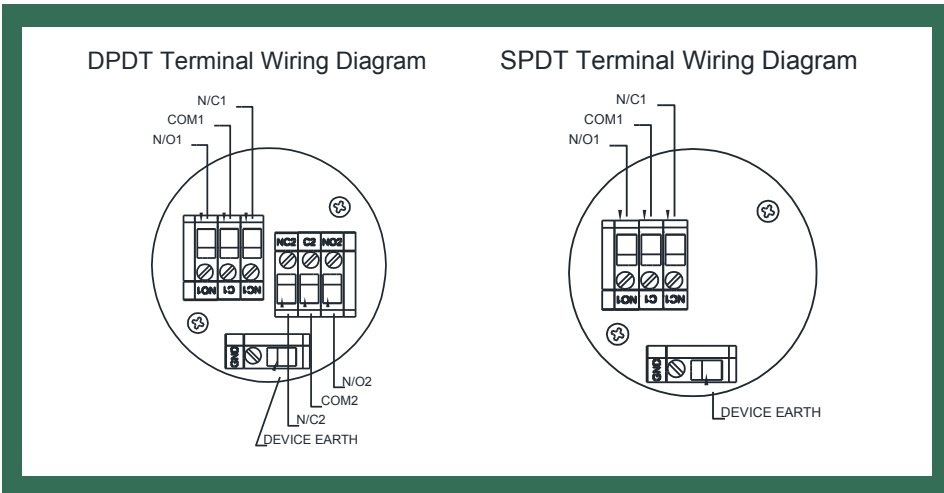
GO™ Switch with ATEX/IECEx Zone 1 Ex de Approvals

GO Switch Models 73, 75, 77, 7G, and 7I are now are available with an integral ATEX/IECEx Zone 1, Ex e certified stainless steel connection head. The temperature class of the GO™ Switch connection head assembly has also been updated to increase the ambient temperature range. The increased temperature range will give the end-user the ability to use the GO Switch connection head assembly up to a maximum ambient temperature of +100ºC in a T4 temperature class.

DPDT Terminal Wiring Diagram

N/C1
COM1
N/O1

NC2 C2 NO2
NC1 C1 NO1

N/O2
COM2
N/C2
DEVICE EARTH

SPDT Terminal Wiring Diagram

N/C1
COM1
N/O1

NC1 C1 NO1

GND

DEVICE EARTH

Note: Increased safety requires that equipment be designed such that it does not cause arcs or excessive temperatures capable of igniting an explosive environment. The encapsulation method will prevent any possibility of arcs, sparks or excessive heat from igniting the surrounding flammable gases or combustible materials.

TOPWORX

EMERSON. Process Management

Model 73, 75, 77, 7G, & 7I Junction Head

The GO Switch Models 73, 75, 77, 7G & 7I with junction head offer an ATEX/IECEx zone 1 Ex de approval. Increased safety gives the end-user the ability to use either Ex "d" or Ex "e" glands.

Features:
- SPDT or DPDT 4A contacts
- Intrinsically Safe
- -40° to 105°C operating temperature

Options:
- M20 or 1/2" NPT conduit entries
- Stainless steel or aluminum junction head

EMERSON.
Process Management

Model	Contact Form	Sensing Range	Outlet Position

Model

Repeatability:
.002" (.05 mm) typical

Response Time:
8 milliseconds

Differential:
Approx. .020" (.51 mm)

Operating Temperature: -40°C to 105°C (-40°F to 221°F)

73	5/8" x 3 5/8"
73M	M18 x 1
75	5/8" x 4 5/16"
75M	M18 x 1
77	3/4" x 5 13/16"
7G	5/8" x 4"
7GM	M18 x 1
7I	1" x 5 5/8"

Ordering Guide
Fill in the boxes
to create your
'ordering number'

Contact Form

Contact Material: Palladium silver with sawtooth surface configuration

Form: SPDT Form C; DPDT Form CC

Ratings: Resistive

AC		DC	
Volts	Amps	Volts	Amps
120	4	24	3

SPDT

AC		DC	
Volts	Amps	Volts	Amps
120	3	24	1

DPDT

1 SPDT
73 - Hermetically Sealed
75-77- Not Hermetically Sealed
7G - Hermetically Sealed
7I- Not Hermetically Sealed

2 DPDT (Model 7G & 7I only)

Form C - SPDT   Form CC - DPDT

Sensing Range

Target Material: Ferrous steel

Sensing Range:
.100" (2.3 mm) end sensing (2,000 PSI)

3 Standard sensing approx. .100" (2.5 mm) end sensing (2,000 PSI)

4 HiPressure sensing - approx. .072" (2.0 mm) end sensing (Enclosure must be 3)

5 HiPressure sensing - approx. .060" end sensing (Enclosure must be 4)

Extended Sensing Range with External Target Magnets
(See Accessories for External Target Magnets)

Extending Sensing Rage with External Target Magnets 73, 75, 77 Series		
Magnet	Sensing	Differential
AMP3	0.20"	0.25"
AMS4	0.35"	0.15"
AMS7	0.20"	0.05"

Extending Sensing Rage with External Target Magnets 7G, 7I Series		
Magnet	Sensing	Differential
AMP3	0.15"	0.30"
AMS4	0.20"	0.30"

Outlet Position

Conduit Outlet: 1/2" NPT

5 Bottom of enclosure

Model — —	-	Contact Form — —	Sensing Range — —	Outlet Position 5

Model 73   Model 75   Model 77   Model 7G   Model 7I

Enclosure Material

2   303 stainless steel (rated 2,000 psi)
(Sensing must be 3)

3   Hi Pressure - 303 SS
(rated 5,000 psi)
(Sensing must be 4)

4   Hi Pressure - 303
SS (rated 10,000 psi)
(Sensing must be 5)

6   316 Stainless steel
(rated 2,000 psi)
(Sensing must be 3)

Approvals

X   ATEX/IECEx
Ex de IIC T4/T6 Gb
Ex tb IIIC T130ºC / T85ºC Db IP66
T4/T130ºC Tamb: -40ºC to 100ºC
T6/T85º Tamb: -40ºC to 50ºC
(Model 73 & 7G-1 Hermetically
Sealed)

Y   ATEX/IECEx
Ex de IIC T4/T6 Gb
Ex tb IIIC T130ºC / T85ºC Db IP66
T4/T130ºC Tamb: -40ºC to 100ºC
T6/T85º Tamb: -40ºC to 50ºC

Wiring Options

JAM   Ex e Junction Box
Aluminum M20

JAP   Ex e Junction Box
Aluminum 1/2" NPT

JSM   Ex e Junction Box
Stainless steel M20

JSP   Ex e Junction Box
Stainless steel 1/2" NPT

Enclosure Material	Approvals	Wiring Options
— —	— —	— —

The TopWorx™ Family of Products

GO™ SWITCH
Using a unique technology, GO Switch outperforms conventional limit switches and proximity sensors in the toughest applications. If your plant conditions are hot, cold, wet, dirty, abusive, corrosive, or explosive, be sure to specify GO Switch for a long, trouble-free life.

VALVETOP™
Valvetop D-Series discrete valve controllers are certified for use in every world area. They carry IECEx, ATEX, UL, and CSA certifications in a single model, making it easier for global customers to standardize across plants in multiple world areas. Other certifications available include NEPSI, KOSHA, InMetro, and GOST. Valvetop D-Series discrete valve controllers can survive in virtually any plant condition. Their heavy-duty construction and corrosion resistance enable superior performance in the most demanding applications.

Valvetop T-Series switchboxes deliver outstanding value by providing full functionality in compact, direct-mount enclosures. Available with a variety of position sensors, integral solenoid valves, and bus networks, the T-Series is suitable for use in all hazardous areas and carry IECEx, ATEX, and CSA certifications.

TopWorx SIL-3 ESD Valve Controllers provide a complete Partial Stroke Test Solution with unique features and functionality that enable partial stroke testing of emergency shutdown valves without disrupting or shutting down the process.

WIRELESS
The TopWorx 4310 Wireless Position Monitor is a component of Emerson's Smart Wireless solutions for field instrumentation. Smart Wireless extends PlantWeb's predictive intelligence into areas that were previously out of physical or economic reach, opening the door for new possibilities in process management.

WIRELESS SAFETY SHOWER MONITORING SOLUTION
The TopWorx Wireless Safety Shower Monitoring Solution combines two 10 Series, latching GO Switches with a Rosemount 702 Wireless Transmitter that provide on/off indication, time stamping, and automated reporting functions for safety shower/eyewash stations.

VIP BRACKETS
With over 1,500 mounting kit designs, TopWorx products can be mounted on any rack-n-pinion, scotch-yoke, or vane actuator, quarter-turn manual valves, linear knifegate and control valves, and positioners.

GLOBAL SALES & SUPPORT OFFICES

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

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