TopWorx engineers are happy to provide technical assistance on GO™ Switch products. However, it is the customer's responsibility to determine the safety and suitability of the product in their application. It is also the customer's responsibility to install the switch using the current electrical codes in their region.

All Stainless Steel 360° Rotatable Weld Field Immune

COM

N/O

GND

COM

N/C

GND

COM

N/O

N/C

GND

COM

N/O

N/C

GND

COM

N/O

GND

COM

N/C

GND

Stroke-to-GO

Cable

UL

Black

White

Black

Red

White

Black

White

Red

Black

White

Red

Black

White

Black

Red

Red

UL

Black

White

Red

Black

Red

White

BlaCK

White

Red

Black

White

Red

Black

White

Red

Black

White

Red

Water-Resistant



Hi Temp

N/A

N/A

Black

Blue

Red

N/A

Black

Blue

Green

Black

Red

Green

Stroke-to-GO™ Switch Models 7C, 7D, 7E, 7F

contact. When the actuator is removed, the magnet again becomes dominant on the N/C side and the armature returns to its N/C position.

Cylinder Position Sensor

Stroke-To-GO™ Switches 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 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™ Switches incorporate the same 70 Series GO ™ Switch mechanism that has been tested to over 200 million mechanical cycles and field proven in the most rigorous applications. This unique design offers the greatest benefits in cylinder position indication.

Unique Features Mechanical life:

>200,000,000 cycles

Leakage current: Without LEDs - none With LEDs - <1.7mA

Voltage Drop: Without LEDs - none

With LEDs - <5V (SPST) Temperature drift: none

Wash-down: designed to withstand 1,000 PSI wash-down and NEMA 6P with Mini-Change® type connector option

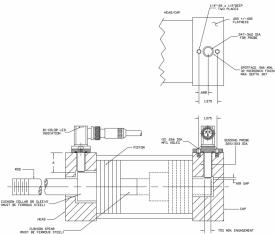
Underwater: rated to 10,000 PSI with deep sea connector option

Weld Field Immune: tested and exceeded General Motors EHS-320 specifications. Testing Agency -Candid Logic

Radio Frequency Interference (RFI): no affect at any frequency

Application Considerations

- Cylinder cushion must be ferrous.
- Air gap between switch sensing face and cushion should be .015" to .040" (outside this range please consult factory).
- · Largest diameter of target (cushion) should cover at least 75% of probe sensing face.
- Sensing face of Stroke-To-GO™ Switch must be at least .125" from piston rod for proper switch reset. This may at times require an air gap distance greater than .040".
- For cushion diameters less than .50", air gap should be .015" to .025".



Specifications Housing

Size: Standard probe lengths: 1.025" (26 mm), 1.250" (32 mm) and 2.062" (52mm). Custom probe lengths:** 1.000" (26 mm) -

5.000" (127 mm) Materials: Stainless Steel bar

stock Conduit Outlet: Mini-change

standard Sensing

Target Material: Ferrous Sensing Range: Approx. .090" (2 mm) end sensing (3.000 PSI) (Recommended air gap .015"

- 040") Contacts

Materials: Palladium silver Form: Single Pole, Double Throw, Form C (w/ or w/o LED indication) Single Pole, Single Throw (w/ or w/ o LED indication) Form A or Form

Figure 1

Ratings: Resistive Without LED's

А	AC		C
Volts	Amps	Volts	Amps
120	4	24	3
240	2	48	*
480	*	125	0.5
		250	0.5

Without LED's

AC		D	C
Volts	Amps	Volts	Amps
120	0.5	24	0.5
240	0.5	48	0.5
480	*	125	0.5
		250	0.5
With LED's			

Most Popular Models



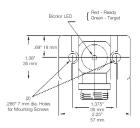
7C-23658-DCA

SPST with LEDs, approx. .090"(2.3 mm) end sensing, stainless steel 1,025" (26 mm) probe. 360° adjustable side outlet with 3 pin mini. change connector. < 1mA leakage current.



7E-43658-DCA

SPDT, (no LED) approx. .090" (2.3 mm) end sensing, stainless steel 2.062" (52 mm) probe, 360° adjustable side outlet with 3 pin mini change connector. No leakage current.



Repeatability: .002"(.05 mm) typical

Performance

Response Time: 8 milliseconds Differential: Approximately .020"(.51 mm) Operating Temperature: -40°F (-40°C) to 160°F (71°C) With LEDs -40°F (-40°C) to 221°F (105°C) Without LEDs; 400°F (204°C) optional

Wiring Diagrams

5-SPDT

Form C

7-SPDT

Form A

8-SPDT

Form B

N/O w/o LED

N/C w/o LED

Dual LEDs

ntact Forms

Greater than 1.025"	
46° 1.250° - 32 mm	Contact F
	2-SPDT Form A N/O w/LED
	3-SPDT Form B N/C w/ LED
" (14 mm)	4-SPDT Form C No Led
Probe Lengths	

Probe Lengths 1.025" and less

Probe Lengths

14 mm

2.15"

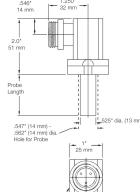
(54.6mm)

Probe

Length

547" (14 mm)

Hole for Probe



Rotatable Head when mounting screws are O-Ring .687" >

SPST, Form B, N/C GND

PIN 1

PIN 2

PIN 3

PIN 3	N/C
PIN 2	COM

3 Pin Micro-Change

With or without LEDs

SPST. Form A. N/O

GND

COM

N/O

	SPDI, Form C
PIN 1	COM
PIN 2	N/C
PIN 3	N/O
	3

Red Red White Green

4 Pin Micro-Change With or without LEDs SPST, Form A, N/O

Leads

UL

Black

Blue

Green

Black

Green

Black

Blue

Red

Black

Blue

Red

Black

Blue

Green

Black

Red

0. 0. ,	1 01111 11, 117 0
PIN 1	COM
PIN 2	N/O
PIN 3	INACTIVE
PIN 4	GND
SPST	Form B, N/C
PIN 1	COM
PIN 2	INACTIVE
PIN 3	N/C
PIN 4	GND
SP	DT, Form C
PIN 1	COM
PIN 2	N/O

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) EMC Directive (2004/108/EC) Machinery Directive (2006/42/EC) ATEX Directive (94/9/EC).





Approvals: UL

Pressure Rating: Stainless steel 3,000 PSI operating (UL tested 4x burst)



N/C

GND

PIN 3

PIN 4

^{**}Probe lengths shorter than 1.00" are available with taller upper switch housing.

Stroke-to-GO



Wiring Diagrams

3 Pin Mini-Change with or without LED

SPST	, Form A, N/O
PIN 1	GND
PIN 2	COM
PIN 3	N/0
SPST	, Form B, N/C

	SPST,	Form B, N/C	
PIN	1	GND	
PIN	2	COM	
PIN	3	N/C	
	SPI	OT, Form C	

PIN I	COM
PIN 2	N/C
PIN 3	N/0
6	

PIN 1	COM
PIN 2	N/0
PIN 3	N/C
PIN 4	GND
	(3) (2) (4) (1)

3 Pin SubSea without LED

SPST,	Form A, N/O
PIN 1	COM
PIN 2	N/O
PIN 3	GND

SPST, Form B, N/C	
PIN 1	COM
PIN 2	N/C
PIN 3	GND
	SPDT, Form C
PIN 1	N/C

COM

N/0



PIN 2

PIN 3

4 Pin Mini-Change with or without LED

SPST	, Form A, N/O	
PIN 1	COM	
PIN 2	N/0	
PIN 3	INACTIVE	
PIN 4	GND	
SPST, Form B, N/C		
PIN 1	COM	
PIN 2	INACTIVE	
PIN 3	N/C	
PIN 4	GND	
SF	DT, Form C	

PIN 3	N/C
PIN 4	GND
(3) (4)	2

4 Pin SubSea without LED

SPST, Form A, N/O		
PIN 1	COM	
PIN 2	N/O	
PIN 3	INACTIVE	
PIN 4	GND	
SPST, Form B, N/C		
PIN 1	COM	
PIN 2	INACTIVE	
PIN 3	N/C	
PIN 4	GND	
SPDT, Form C		

COM

N/O

N/C

GND



PIN 1

PIN 2

PIN 3

PIN 4

5 Pin Mini-Change with or without LED

	SPST, Form A, N/O		
	PIN 1	N/0	1. <u>I</u> Ser
	PIN 2	Inactive	acc
	PIN 3	GND	Go
	PIN 4	Inactive	tion
	PIN 5	COM	Ser
	SPST, Form B, N/C		
	PIN 1	Inactive	Sel to E
	PIN 2	N/C	2. [
	PIN 3	GND	app Buy
	PIN 4	Inactive	or o
	PIN 5	СОМ	trar the
CDDT Form C			

PIN 1 N/O PIN 2 N/C PIN 3 GND PIN 4 Inactive PIN 5 COM 3

4 2 **⑤** 1

3 Pin SubSea - Right Angle without LED SPST, Form A, N/O

PIN 2	N/O
PIN 3	GND
SPST	, Form B, N/C
PIN 1	COM
PIN 2	N/C
PIN 3	GND
SP	DT, Form C
PIN 1	COM
PIN 2	N/0
PIN 3	N/C

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