

# HAZARDOUS LOCATION SWITCHES



**SPRINGER**  
controls company

**Springer Controls** hazardous location switches, also known as oil immersed switches, are designed to provide dependable, heavy duty performance in indoor or outdoor locations; specifically where atmospheric conditions are dusty, corrosive or hazardous. Their positive action and heavy-duty construction make them suitable for the most rugged application. They are dependable under the most extreme operating conditions.

## HAZARDOUS LOCATION / OIL IMMERSED SWITCHES

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**K**

## DESCRIPTION / FEATURES



2080-ZQ11

### Description

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### Features

Typical applications include: oil refineries, chemical plants, textile mills, paper mills, steel mills, food processing and any area where corrosive or hazardous conditions exist.

The standard enclosure consists of heavily constructed cast iron top and tank - a functional design that facilitates installation and provides a dust-tight, weather-resistant lever operator. The top casting has a provision to lock the operating lever in either the "on" or "off" position.

The operating mechanism consists of heavy duty contacts, a molded phenolic mounting panel and push-rod, wing-type cast iron operating lever, monel shaft, stainless steel bushings and washers.

All operator stations are designed with maximum flexibility of contact arrangement and access to operating parts for easy installation, maintenance and inspection.

The control of corrosion from atmospheric conditions and the elimination of exposed arcs are accomplished by the immersion of all operating parts in oil. The Type 675 has the Underwriters Laboratory (UL) approval for Hazardous Location, File #184636.



2080-AF8-1

K2

**Specifications**

<b>Type 675</b> 	<b>Type 604</b>
Type 675 Hazardous Locations Nema 3R, 7, 8, 9 Class I, Group B, C, D Class II, Group E, F, G	Type 604 Watertight, Corrosion Proof Nema 3, 4, 11, 12 Class I, Group D, Div. 2

<b>Specifications</b>	<b>675 Dim. 1</b>	<b>604 Dim. 1</b>
Approx. Ship wt. Lbs.	18lb	17lb
Oil <sup>1</sup> Capacity Qts.	1	1
Hub Size (Two / Unit)	3/4"	3/4"
Dia. Mounting Holes	3/8"	3/8"

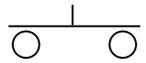
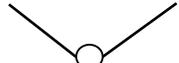
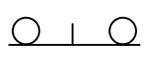
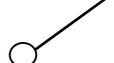
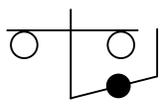
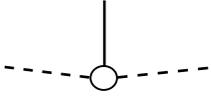
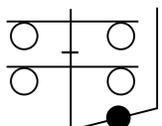
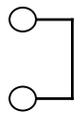
<sup>1</sup> All units shipped less oil

**Contact Rating - AC  
Air or Oil - NEMA A600**

6 Amps - 120V 3 Amps - 240V 1.5 Amps - 480V 1.2 Amps - 600V	Recommended switch oil or transformer oil is Chevron "Univolt N61". (Not provided with switch)
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**K3**

**Contact Configuration - Handle Lever Style**

	Indicates momentary make; spring return		Indicates common double lever
	Indicates momentary break; spring return		Indicates single lever
	Indicates maintained contact		Indicates 3 position selector
	Indicates maintained contact; two circuit		Indicates removable

## MODEL # AND PRICING

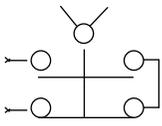
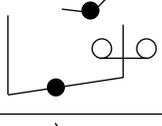
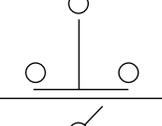
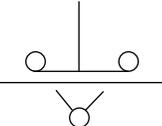
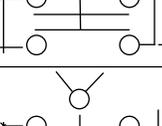
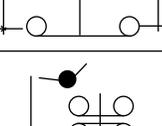
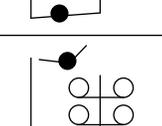
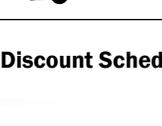


**Springer Controls** line of corrosive-hazardous location operators stations offer heavy duty construction and positive contact action. Internal contact assemblies are identical in each type of station.

Approved enclosures for Springer Controls Push Buttons are:  
 Type 604 - designed for use in NEMA 3, 4, 11, and 12.  
 Type 675 - designed for use in NEMA 3R, 7, 8, and 9.

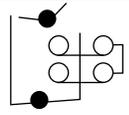
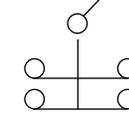
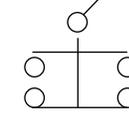
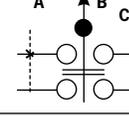
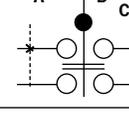
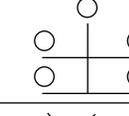
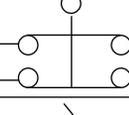
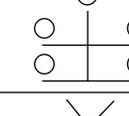
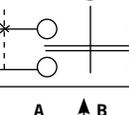
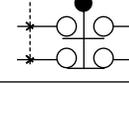
For maximum protection against corrosion and elimination of exposed arcs, switch oil is recommended.

All **Type 675** stations are **UL** Listed and **cUL** Listed

NEMA 3R, 7, 8, 9 Type 675 		NEMA 3, 4, 11, 12 Type 604		Contact Arrangement	
2080-AF8	\$1085.00	2080-AF11	\$879.00	1 N.O. - 1 N.C. Momentary	
2080-B8	\$1062.00	2080-B11	\$856.00	1 N.C. Maintained	
2080C8	\$1104.00	2080-C11	\$903.00	1 N.O. Momentary	
2080-D8	\$1104.00	2080-D11	\$903.00	1 N.C. Momentary	
2080-E8	\$1104.00	2080-E11	\$903.00	2 N.O. Momentary	
2080-F8	\$1104.00	2080-F11	\$903.00	1 N.O. - 1 N.C. Momentary	
2080-I8	\$1104.00	2080-I11	\$903.00	1 N.O. - 1 N.C. Maintained	
2080-J8	\$1104.00	2080-J11	\$903.00	2 N.C. Maintained	

**Discount Schedule SC-81**

**MODEL # AND PRICING**

NEMA 3R, 7, 8, 9 Type 675		NEMA 3, 4, 11, 12 Type 604	Contact Arrangement		
2080-R8	\$1197	2080-R11	\$974.00	2 N.C. Maintained	
2080-S8	\$1163.00	2080-S11	\$974.00	2 N.C. Momentary	
2080-T8	\$1146.00	2080-T11	\$940.00	1 N.O. - 1 N.C. Momentary	
2080-TY8 (not UL)	\$1862.00	2080-TY11	\$1159.00	Sel. Sw.; Left Spring Return, Maintained Right	
2080-VV8	\$1293.00	2080-VV11	\$1054.00	Sel. Sw; Maintained Left, Center Right	
2080-WL8	\$1184.00	2080-WL11	\$987.00	2 N.O. Momentary	
2080-WS8	\$1184.00	2080-WS11	\$987.00	2 N.C. Momentary	
2080-Y08	\$1148.00	2080-Y011	\$951.00	2 N.O. Momentary	
2080-YT8	\$1092.00	2080-YT11	\$886.00	2 N.O. Momentary	
2080-ZQ8	\$1104.00	2080-ZQ11	\$903.00	Sel. Sw.; Left Spring Return, Maintained Right	

**K5**

**Discount Schedule SC-81**

## ACCESSORIES

**Springer Controls** can help you meet any requirement. Our custom built stations include special maintained and momentary contact arrangements, lever guards and special conduit hubs. Custom nameplate kits available as well.

### Custom Build - Suffix

Add the "catalog-suffix" to the switch part number to obtain factory built modifications.

ie. 2080-ZQ8-1...  
Complete unit with operating lever guard installed

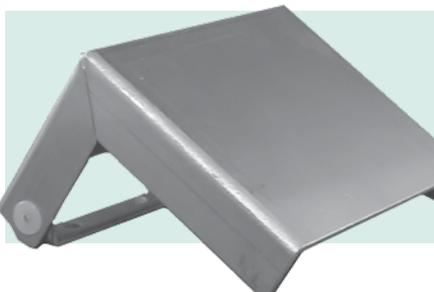
Factory Modification		Cat. Suffix	Price
Operating Lever Guard	LG 1	-1	\$84.00
Optional Hubs	1 Inch	-3	\$105.00
Optional Hubs	1 1/4 Inch	-4	\$168.00

### Contact Assemblies (Type 2080-604 & 2080-675)



Replacement Parts	Catalog No.	Price
Switch Rod	2090-14309	\$197.00
Push Button Contact Assembly - AF	2090-14342	\$273.00
Push Button Contact Assembly - B	2090-14440	\$273.00
Push Button Contact Assembly - C	2090-14441	\$273.00
Push Button Contact Assembly - D	2090-14442	\$273.00
Push Button Contact Assembly - I	2090-14567	\$273.00
Push Button Contact Assembly - ZQ	2090-14584	\$394.00
Push Button Contact Assembly - J	2090-14829	\$338.00
Push Button Contact Assembly - VV	2090-17574	\$478.00
Push Button Contact Assembly - TO	2090-24482	\$781.00
Push Button Contact Assembly - TY	2090-14522	\$583.00

### Field Kit: Operating Lever Guard



Accessories and Parts	Catalog No.	Price
Lever Guard - Single Tank	2080-LG1	\$84.00

**Discount Schedule SC-81**

**Standard Nameplate Kits** *(includes the rivets for field installation)*

● **HANDS-OFF-AUTO** ●

2080-N5

**Nameplate specs.**

Width: 3/8"

Length: 3.25"

Hole Ø: 1/8" (Two holes)



2080-ZQ11  
with 2080-N5 Nameplate

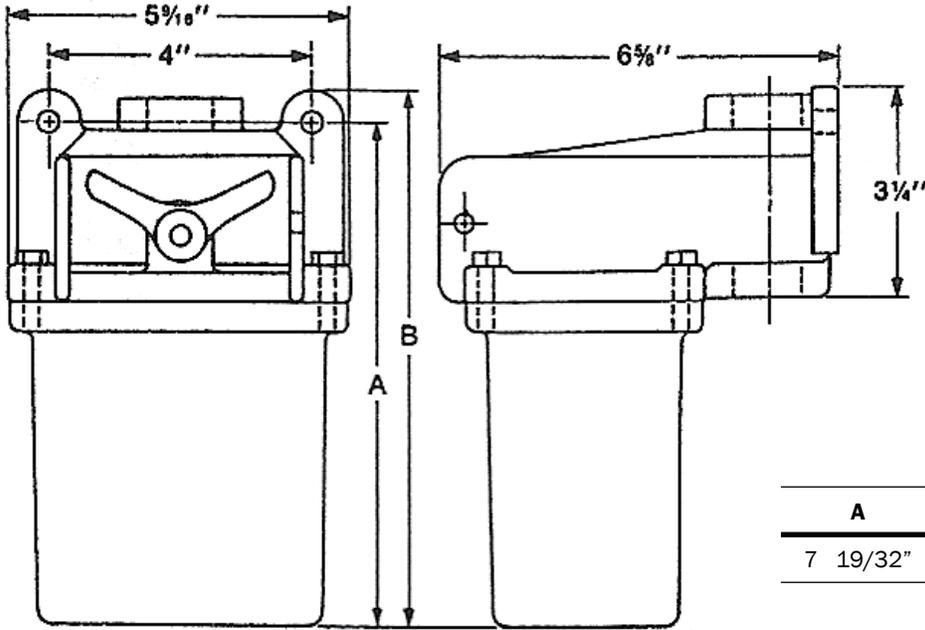
Nameplate	Catalog No.	Price
Nameplate "Start-Stop"	2080-N1	\$29.00
Nameplate "Start"	2080-N2	\$29.00
Nameplate "Stop"	2080-N3	\$29.00
Nameplate "Reset"	2080-N4	\$29.00
Nameplate "Hands-Off-Auto"	2080-N5	\$29.00
Nameplate "Automatic"	2080-N6	\$29.00
Nameplate "Down"	2080-N7	\$29.00
Nameplate "Emergency"	2080-N8	\$29.00
Nameplate "Fast-Off-Slow"	2080-N9	\$29.00
Nameplate "Forward-Off-Reverse"	2080-N10	\$29.00
Nameplate "Hand"	2080-N11	\$29.00
Nameplate "Hand-Auto-Off"	2080-N12	\$29.00
Nameplate "Reset-Stop-Start"	2080-N13	\$29.00
Nameplate "Jog"	2080-N14	\$29.00
Nameplate "Tower"	2080-N15	\$29.00
Nameplate "Off"	2080-N16	\$29.00
Nameplate "On"	2080-N17	\$29.00
Nameplate "Open"	2080-N18	\$29.00
Nameplate "Raise"	2080-N19	\$29.00
Nameplate "Reverse"	2080-N20	\$29.00
Nameplate "Run"	2080-N21	\$29.00
Nameplate "Start-On-Off"	2080-N22	\$29.00
Nameplate "Start-Run-Stop"	2080-N23	\$29.00
Nameplate "Test"	2080-N24	\$29.00
Nameplate "Up"	2080-N25	\$29.00
Nameplate "Trip"	2080-N26	\$29.00
Nameplate "Manual-Off-Auto"	2080-N27	\$29.00
Nameplate "Slow-Fast"	2080-N28	\$29.00
Nameplate "Run-Stop"	2080-N29	\$29.00
Nameplate "ON-Off"	2080-N30	\$29.00
Nameplate "Jog-Auto-Off"	2080-N31	\$29.00
Nameplate "Jog-Off-Auto"	2080-N32	\$29.00
Nameplate "Start-Auto-Off"	2080-N33	\$29.00
Nameplate "Fire-Shunt"	2080-N34	\$29.00

**K7**

**Discount Schedule SC-81**

**DIMENSIONS**

**Type 675**



A	B
$7\frac{19}{32}''$	$8\frac{1}{4}''$

**K8**

**Type 604**

