

# SWITCHES AND SENSORS

Westlock control and monitoring equipment can be fitted with a variety of switches and sensors to provide the optimum combination and ideal solution for each application

Magnum XT-90 hermetically sealed proximity switch



Hermetically-sealed proximity switches with either pure tungsten or rhodium contacts for use with low power I/O's to provide longer contact life.

# **TECHNICAL DATA**

Contact	SPDT, Form C (normally open)
arrangement	
Contacts	Pure tungsten
	Rhodium
Operating time	3.0 ms
Initial contact	0.50 ohms (max.) Tungsten
resistance	0.10 ohms (max.) Rhodium
Seal	Hermetic
Housing	High impact PBT
(flame retardant)	
Temperature	-45°C to +105°C (Tungsten)
range	-40°C to +105°C (Rhodium)
Operational life	600,000 cycles (full rated load)
Entity	Ui = 30 V, Ii = 100 mA, Pi= 1 W,
Parameters	Ci = 10 nF, Li = 10µ
Electrical rating	
Rhodium	SPDT Form C (normally open)
(low power, below	0.15 A/240 V AC,
1 watt)	1 A/24 V DC
Tungsten	SPDT Form C (normally open)
(high power,	3 A/120 V AC,
above 1 watt)	1.5 A/240 V AC,
	2 A/24 V DC

MagPAC modular switches



Modular switches with bifurcated reed switches designed specifically for use in low power and high DI card capacitance discrete position feedback applications.

**TECHNICAL DATA** 

Contact	Two SPST, Form A
arrangement	(normally open)
Contact material	Movable contact -
	Silver cadmium oxide
	Stationary contact -
	Molybdenum
Operating time	≤ 4 ms
Releasing time	≤ 2 ms
Initial contact	≤ 250 milliohms
resistance	
Seal	Hermetic
Operating	-40°C to +85°C
temperature	[-40°F to +185°F]
Operational life	100,000,000 operations (no load)
Repeatability	0.005
	[0.125 mm]
Warranty	5 years
Electrical rating	
Rated voltage	12 - 120 V AC/V DC
Rated current	Min. 2 mA to light LED,
	Max. 750 mA
Allowable solenoid	25 - 120 V AC/V DC
input voltage	
Entity parameters	
Switch input	Vmax = 28 V DC; Imax = 174 mA; Pi = 1.6 W; Ci = 51.7 nF; Li = 0 mH

**P+F NJ2-V3-N inductive proximity sensor** Intrinsically safe



A solid state inductive proximity sensor which is available in NAMUR output. It is ideal for use in devices within potentially explosive atmospheres.

# **TECHNICAL DATA**

Sensing range	2 mm
Electrical version	DC voltage 2 wire in accordance
	with EN 60947-5-6 (NAMUR)
Hysteresis	3-15% (5% typical)
Switching	1 kHz
frequency	
Input voltage	5- 25 V DC
range	
Output/current	Cam trigger present ≤ 1 mA
consumption	Cam trigger absent ≥ 3 mA
	(15 mA max)
Operating	+14°F to +212°F
temperature	[-10°C to +100°C]
Entity	Consult manufacturer's
parameters	component certificate for entity
	parameters

# SPDT mechanical switch V3

# **DPDT** mechanical switch (Licon)



A V3 SPDT (single pole double throw) mechanical switch (Form C) with gold plate contacts.

# **TECHNICAL DATA**

Operating force	150 gram max.
Release force	15 gram min.
Differential	0.05 - 0.25 mm
travel	
Overtravel	0.039 inch [1 mm]
Operating	-20°C to +85°C
temperature	
Hysteresis	3°
Entity	Ui = 30 V, Ii = 100 mA, Pi = 1 V
Parameters	Ci = 10 nF, Li = 10µ
Electrical rating	
Contact	SPDT, Form C (normally oper
Arrangement	15 A/125/250 V AC

15 A/125/250 V AC 6 A/24 V DC



A Form CC DPDT (double pole double throw) mechanical switch with silver-plated contacts.

#### **TECHNICAL DATA**

Contacts	Silver plated
Approvals	UL, CSA
Operating	-55°C to +85°C
temperature	
Hysteresis	20°
Electrical rating	
Contact	DPDT (Form CC)
Arrangement	10 A/125/250 V AC
	10 A/24 V DC



#### Translations

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