

SWITCHES AND SENSORS

Westlock's 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
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
(low power, below	1 A/24 V DC
1 watt)	17/24 1 00
Tungsten	SPDT Form C
(high power,	3 A/120 V AC,
above 1 wattl	2 A/24 V DC
above i watti	Z A/Z4 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

Switch input

I EGITHOAL DATE	^
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	

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

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Li = 0 mH

Vmax = 28 V DC; Imax = 174 mA;

Pi = 1.6 W; Ci = 51.7 nF;

SPDT mechanical switch V3



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

TECHNICAL DATA

Operating force	3.5 - 5N
Release force	15 gram min.
Differential	≤ 0.4mm
travel	
Overtravel	0.059 inch [1.5 mm]
Operating	-20°C to +85°C
temperature	
Hysteresis	3°
Entity	Ui = 30 V, Ii = 100 mA, Pi = 1 W,
Parameters	Ci = 10 nF, Li = 10µ
Electrical rating	
Contact	SPDT, Form C (normally open)
Arrangement	16A/125/250V AC

15A/105/125V DC

DPDT mechanical switch (Licon)



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

TECHNICAL DATA

Contacts

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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

Silver plated



Translations

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