

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.

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.

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

Contact arrangement	SPDT, Form C (normally open)
Contacts	Pure tungsten Rhodium
Operating time	3.0 ms
Initial contact resistance	0.50 ohms (max.) tungsten 0.10 ohms (max.) rhodium
Seal	Hermetic
Housing (flame retardant)	High impact PBT
Approvals	UL
Temperature range	-58°F to +185°F [-50°C to +85°C]
Operational life	600,000 cycles (full rated load)

Electrical rating

Rhodium	SPDT Form C (normally open) 0.2 A/120 V AC, 1 A/24 V DC
Tungsten	SPDT Form C (normally open) 3 A/120 V AC, 1.5 A/240 V AC, 2 A/24 V DC

TECHNICAL DATA

Contact arrangement	Two SPST, Form A (normally open)
Contact material	Movable contact - Silver cadmium oxide Stationary contact - Molybdenum
Operating time	≤ 4 ms
Releasing time	≤ 2 ms
Initial contact resistance	≤ 250 milliohms
Seal	Hermetic
Approvals	CSA, FM
Operating temperature	-40°F to +185°F [-40°C to +85°C]
Operational life	100,000,000 operations (no load)
Repeatability	0.005 [0.125 mm]
Warranty	5 years

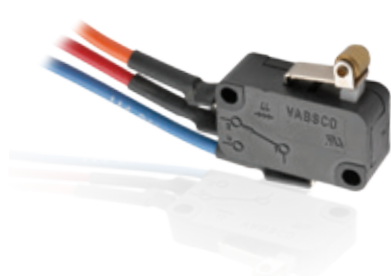
Electrical rating

Rated voltage	12 - 120 V AC/V DC
Rated current	Min. 2 mA to light LED, Max. 750 mA
Allowable solenoid input voltage	25 - 120 V AC/V DC

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 frequency	1 kHz
Input voltage range	5- 25 V DC
Output/current consumption	Cam trigger present ≤ 1 mA Cam trigger absent ≥ 3 mA (15 mA max)
Operating temperature	+14°F to +212°F [-10°C to +100°C]

SPDT mechanical switch V3



A V3 SPDT (single pole double throw) mechanical switch (Form C).

TECHNICAL DATA

Operating force	150 gram max.
Release force	15 gram min.
Differential travel	0.05 - 0.25 mm
Overtravel	0.039 inch [1 mm]
Electrical rating	
Contact	SPDT, Form C (normally open)
Arrangement	15 A/125/250 V AC 6 A/24 V DC 0.5 A/125 V DC 0.25 A/250 V DC

DPDT mechanical switch (Licon)



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

TECHNICAL DATA

Contacts	Silver plated
Approvals	UL, CSA
Electrical rating	
Contact	DPDT (Form CC)
Arrangement	10 A/125/250 V AC 10 A/28 V DC