

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

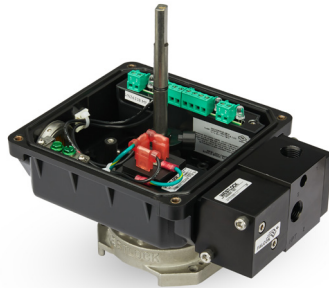


Hermetically-sealed proximity switches with either pure tungsten or rhodium contacts for use with low power I/O's to provide longer contact life.

TECHNICAL DATA

Contact arrangement	SPDT, Form C
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
Temperature range	-45°C to +105°C (Tungsten) -40°C to +105°C (Rhodium)
Operational life	600,000 cycles (full rated load)
Entity Parameters	U _i = 30 V, I _i = 100 mA, P _i = 1 W, C _i = 10 nF, L _i = 10μ
Electrical rating	
Rhodium (low power, below 1 watt)	SPDT Form C 1 A/24 V DC
Tungsten (high power, above 1 watt)	SPDT Form C 3 A/120 V AC, 2 A/24 V DC

MagPAC modular switches

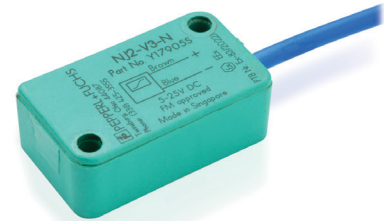


Modular switches with bifurcated reed switches designed specifically for use in low power and high DI card capacitance discrete position feedback applications.

TECHNICAL DATA

Contact 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
Operating temperature	-40°C to +85°C [-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 input voltage	25 - 120 V AC/V DC
Entity parameters	
Switch input	V _{max} = 28 V DC; I _{max} = 174 mA; P _i = 1.6 W; C _i = 51.7 nF; L _i = 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 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]
Entity parameters	Consult manufacturer's component certificate for entity parameters

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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 travel	≤ 0.4mm
Overtravel	0.059 inch [1.5 mm]
Operating temperature	-20°C to +85°C
Hysteresis	3°
Entity Parameters	U _i = 30 V, I _i = 100 mA, P _i = 1 W, C _i = 10 nF, L _i = 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	Silver plated
Approvals	UL, CSA
Operating temperature	-55°C to +85°C
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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