



The Moniteur TTL sensing system is an advanced and reliable method of position monitoring developed for today's sophisticated process control systems. The highest quality reed-type switching elements available are enclosed and encapsulated in a flexible moisture-proof bedding compound, protecting them from contaminants and shock to 38g. Switching elements are actuated with neodymium magnets sealed in their camsto protect and prevent dislodgement and subsequent system failure. An internal stainless steel Loc-Ring is employed to prevent vertical shaft motion from corrupting output signals. Many different switching elements are available, each meeting different user needs.

### Applications

- \* Areas with corrosive or humid environments that could corrode exposed contacts
- \* Critical position monitoring applications requiring reliability and higher cycle life
- \* Explosion-proof environments. Moniteur *Sentinel* series is UL listed and CSA\*\* approved for Class I, Division 2 - Groups A, B, Class 1, Division 1 Groups C, D and Class II, Division 1, Groups E, F, G.
- \* Nonincendive (Class 1, Division 2) environments. Article 501-3(b) of the NEC (National Electric Code) permits the use of general purpose enclosures (such as the Moniteur *Watchman* or *Survivor* Series) in Class 1, Division 2 locations when the current interrupting contacts are sealed within a hermetically sealed chamber.
- \* Intrinsically safe environments. TTL switches are passive devices and can be used in Intrinsically Safe applications with an approved current and voltage-limiting barrier.

### TTL Switching Elements Available

**TUNGSTEN TTL** - The choice for high power AC and DC switching applications. Durable tungsten contacts handle up to 3A - 120VAC / 2A - 24VDC. TUNGSTEN TTL HV switches can handle 100W at voltages up to 500 VAC or VDC. MTBF for both is 800,000 cycles.

**RHODIUM TTL** - The choice for reliable low power 24VDC switching applications. Rhodium contacts have 80% less contact resistance than Tungsten TTL. Rated to 1A - 24VDC. MTBF 1,000,000 cycles.

**BIFURCATED TTL** - Premium Bifurcated SPST contacts with "wiping action" assure outstanding reliability for ultra low power / voltage applications (10mA @ 5 VDC minimum). MTBF 2,000,000 cycles.

**KRYSTAL TTL** - Rhodium TTL contacts combined with LED set lights makes switch setting easier in the field. Rated to 0.3A - 120 VAC / 0.3A - 24 VDC. MTBF 1,000,000 cycles.

### Specifications - TTL Switches

Switch Type	AC Rating	DC Rating	Contacts	Form	MTBF (cycles)
TUNGSTEN TTL	3A - 120V	2A - 24V	SPDT	C	800,000
RHODIUM TTL	1A - 120V	1A - 24V	SPDT	C	1,000,000
BIFURCATED TTL	2A - 120V	2A - 24V	SPST	A	2,000,000
KRYSTAL TTL	0.3A - 120V	0.3A - 24V	SPDT	C	1,000,000

\*\*Rhodium TTL only