



Moniteur's TTL hermetically sealed proximity switches provide an advanced and reliable method of position monitoring for today's sophisticated process control systems. The highest quality reed switch 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 cams to 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. A variety of switching elements are available, meeting different user needs.

TTL Switching Elements Available

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

RHODIUM TTL - The choice for DC switching applications. With 80% less contact resistance than Tungsten, these switches are best suited to modern control systems using low power DC feedback signals. Rated to 1A - 24VDC. MTBF 1,000,000 cycles.

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

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.
- ▶ Class 1, Division 2 environments requiring hermetically sealed contacts or nonincendive circuits. 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 - Choose Rhodium TTL. These switches are passive devices (simple apparatus) and can be used in Intrinsically Safe applications with an approved current and voltage-limiting barrier.

Specifications - TTL Switches

Switch Type	Moniteur Switch Code	AC Rating	DC Rating	Contacts	Form	MTBF (cycles) at full load
TUNGSTEN TTL	2	3A - 120VAC	2A - 24VDC	SPDT	C	800,000
TUNGSTEN TTL HV	E	0.4A - 250VAC	0.4A - 250VDC	SPDT	C	800,000
RHODIUM TTL	T	0.25A - 120VAC	1A - 24VDC	SPDT	C	1,000,000
KRYSTAL TTL	L	0.3A - 120VAC	0.3A - 24VDC	SPDT	C	1,000,000

** Rhodium TTL only