

Hermetically Sealed Proximity Switch

The Companion VPT series proximity limit switches are designed for monitoring linear control valves. Available with a choice of two low hysteresis switching elements, the Companion meets all of the process industry's most demanding electrical requirements, either high power or low voltage.

The Companion is constructed from 316 SS and engineered to withstand corrosive and physically demanding environments. The switching elements are hermetically sealed and encapsulated in a thermoplastic shock guard. Contact reliability is assured to a minimum of 800,000 cycles at full load (see table below). The magnetic trigger provides a 3/16" detection range.



Applications

- ▶ Linear control valves and actuators
- ▶ Alarms for sea gates and bulkhead doors
- ▶ Rotary valves and actuators
- ▶ Submersible applications



Class I, Division 1, Groups A, B, C, D
Class II, Division 1, Groups E, F, G

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. MTBF minimum 800,000 cycles at full load.

RHODIUM TTL - The choice for reliable low power 24 VDC switching applications under 50mA. Rhodium contacts have 80% less contact resistance than Tungsten TTL, making them more reliable. Rated to 1A - 24VDC. MTBF minimum 1,000,000 cycles.

Specifications - COMPANION VPT

Part Number	Switch Type	AC Rating	DC Rating	Contacts	Form	MTBF (cycles)
XNNN-0210	TUNGSTEN	3A - 120V	2A - 24V	SPDT	C	800,000
XNNN-0T10	RHODIUM	0.2A - 120V	1A - 24V	SPDT	C	1,000,000

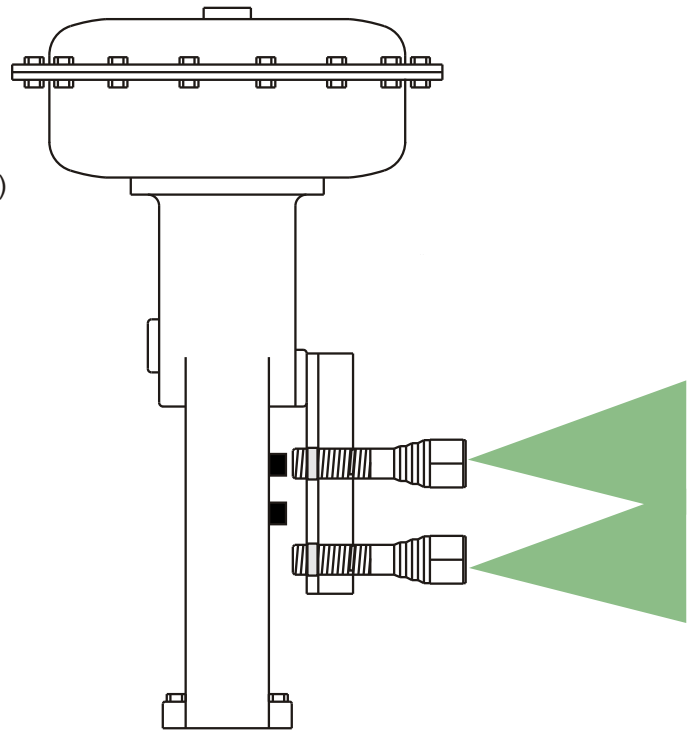
Intelligent Part Number System

X	N	N	N	-	0	2	1	0
Series						Switch	Quantity	Conduit

Description	Code	Description	Code	Description	Code
Series: Companion	X	Switch/Sensor Package		Conduit Connection	
		Tungsten TTL Prox 3A-125 VAC	2	1-1/2" FNPT	0
		Rhodium TTL Prox 1A-24VDC	T	Options	
		Sensor Quantity	1	Long Lead Length	-W**
				** = length in feet	
				High Temperature (rated to 320 °F)	-T3

Specifications

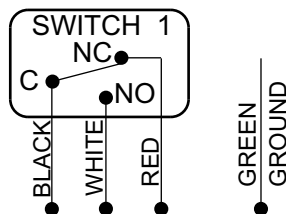
Contacts	Hermetically Sealed
Enclosure	316 SS
Repeatability	0.005"
Hysteresis	0.045"
Sensing Range	3/16"
Trigger	Encapsulated Magnet
Temperature Range	-40 - 175 °F (Standard) -40 - 320 °F (High Temperature)



Dimensions

Switch Length	3.625"
Switch Body Head	1" Hex
Switch Thread	5/8 - 18 UNC (1.50" long)
Conduit Entry	1/2" NPT
Trigger Length	1.25"
Trigger Head	1/2" Hex
Trigger Thread	5/16 - 18 UNC (0.75" long)

Wiring Diagram



Companion Cutaway Drawing

