

SVF Control Accessories for Intrinsically Safe Systems (On/Off)

Limit Switch		
Nexus-LS		Simple Apparatus/Passive Device: Does not generate or store energy. See note below.
Nexus-LX*		
Nexus-PS		
Pilot Valve		
Vector-PV9*	with C3 Coil	24VDC, <1W
Limit Switch + Pilot Valve Package		
Nexus-LP	with C3	24VDC, <1W
Nexus-LPX*	Coil	
*Enclosure rating <ATEX/CENELEC> for Hazardous Areas---EEX ia IIC T6		
<u>Intrinsically Safe</u>		
A device termed “intrinsically safe” is engineered, designed and most importantly certified to be incapable of producing heat or spark sufficient to ignite an explosive atmosphere, regardless of the source: flammable gasses, vapors, or combustible dusts or fibers. Such a design is not explosion proof, nor does it need to be. Intrinsically safe devices/systems employ “barriers” that reside outside of the hazardous area and serve to limit the amount of energy available to the device.		
<u>Simple Apparatus</u> such as LEDs and switches may be employed in a hazardous area without IS certification provided that it does not generate or store more than 1.2V, 0.1A and 25mW.		
Simple Apparatus is defined as; a device that does not generate or store energy.		
From this definition it is clear that all switches manufactured or supplied by SVF/NexTek Controls can be used in Intrinsically Safe systems.		
This includes: NEXUS-PS (Magnetic), NEXUS-LS and NEXUS-LX with Switches M2A (Mechanical). Q30 (Magnetic), and P20 (Inductive). Other Proximity sensors (inductive type P30, P3A, P3B and P3C) require compatibility check. All switches / sensors must be used with an approved current and voltage limiting barrier. This is determined by the user. See electrical ratings for all sensors.		