

HAZARDOUS LOCATION SOLENOIDS

INTRINSICALLY SAFE | PRODUCT DETAIL

Description

The intrinsically safe (ia) is a protection technique for safe operation of electrical equipment in hazardous areas by limiting the energy, electrical and thermal, and available for ignition. Intrinsically safe solenoids must be powered through a barrier which limits the voltage and current to levels that will not ignite an explosive atmosphere. The intrinsically safe system design approach simplifies circuits and reduces installation cost over other protection methods. This product is developed for use in all zones and divisions found in topside explosive atmospheres including chemical, oil and gas applications.

Solenoid Specification

Voltages: 18 - 30 Open Circuit VDC and Onboard Rectifier for AC Circuits

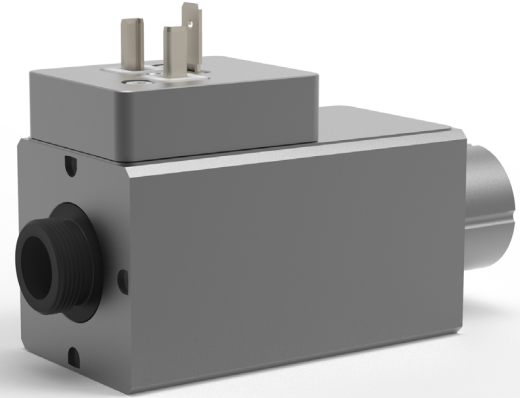
Duty Cycle: 100% Continuous Duty

Corrosion Resistance: Up to 1,000 Hours Salt Spray

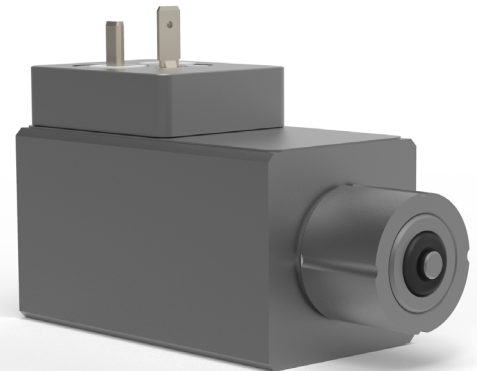
Ambient Temperature: -40°C to 80°C (T4), -40°C to 60°C (T6)

Ingress Protection Rating: IP66

*Switched version features fast turn off times



U.S. and Foreign Patents Pending

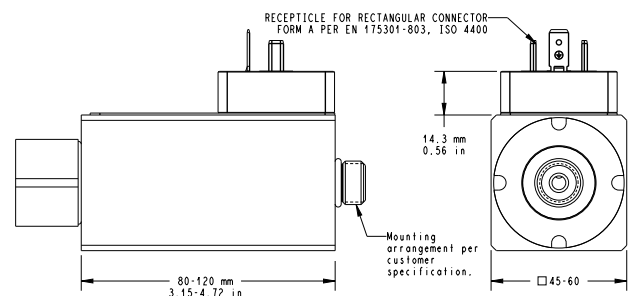


Hazardous Certifications Table				
Protection Method	Hazardous Code	Hazardous Detail	Certification Agency	Location
Intrinsically Safe	(IS)	Class I, Div 1 GRP A,B,C,D	CSA (C & US)	North America
	Ex ia	Zone 0, 1G IIC, IIB, IIA	ATEX IECEx	Europe Interational

Input Parameters		
Group IIC Apparatus		
Vi	Ii mA	Pi
18	440	2.00
20	309	1.60
22	224	1.30
24	174	1.12
26	143	1.01
28	120	0.93
30	101	0.84

Input Parameters		
Group IIB Apparatus		
Vi	Ii mA	Pi
24	433	2.79
26	357	2.53
28	299	2.31
30	253	2.12

Input Parameters		
Group IIA Apparatus		
Vi	Ii mA	Pi
28	396	3.06
30	340	2.84





Our family of hazardous location solenoid products feature robust designs for high vibration environments and carry multiple global certifications. These products are best suited where the potential for explosive or hazardous gas environments exist such as oil and gas drilling, power generation, turbine process control, and specialty actuators. Our team can also guide you through the complexity of hazardous location certifications.

ABOUT US

We are a global leader in the design and manufacture of engineered solutions including solenoids, solenoid valves, linear and rotary position sensors, motors, electric actuators and flame arrestors. We serve hundreds of customers in diverse markets throughout the world with market-leading solutions enabled by our extensive design, test and manufacturing capabilities.

