

Single Channel Isolated Switch

ISO Series



The **ISO Series** single channel devices are used to provide a safe and reliable means of controlling loads from hazardous locations without releasing sufficient energy, under normal or abnormal conditions, to cause ignition of a flammable or combustible atmospheric mixture while in its most easily ignited concentration. An isolated output turns on when the control switch input from the hazardous location is closed. When the control switch input opens, the isolated output turns off.

The Style A single channel plug-in devices come equipped with integral spring mating clips and socket (PF083A) which secure the device to make this unit the only UL913 Intrinsically Safe plug-in associated apparatus available on the market today.

The Style N, surface mounted enclosure is sealed with a high quality epoxy resin material and has five (5) #8-32 screw terminals.

ORDERING INFORMATION

Model Number	Control Voltage	Mounting
ISO-24-AFA	24 VAC	A
ISO-120-AFA	120 VAC	A
ISO-24-AFN	24 VAC	N
ISO-120-AFN	120 VAC	N

Style "A" Socket Included (PF083A) with clips



TECHNICAL DATA

ATC/DEI Series	ISO Series Single Channel
Dimensions (WxHxD)	1.61"x3"x.16"
Power Required	1.5 VA
Weight	20 oz.
Control Voltage	24 or 120 VAC ± 10%, 50/60 Hz
Duty Cycle	Continuous
Terminations	(12) #8-32 Screw terminals
Enclosure	Style "A" and "N"
Indicators	On When Output is On
Isolation	2500 Volts, Input to Output
Sensitivity	100 k ohm
Contact Rating	SPST-N.O., 5 amps @ 24 or 120 VAC, Resistive; 278 VA, Inductive
CONTROL SWITCH	
Open Circuit Voltage	16 VDC
Short Circuit Voltage	200 µAmps
RESPONSE	
Operate	6 mSEC (Approx.)
Release	2.5 mSEC (Approx.)
TEMPERATURE RATING	
Operate	-4° to 131° F (-20° to +55° C)
Storage	-40° to 185° F (-40 to +85° C)
LIFE EXPECTANCY	
Mechanical	20 Million Operations
Electrical	50,000 Operations @ Rated Load
AGENCY APPROVALS	
UL Listed	Process control equipment for hazardous locations (7M26 UL913) *Includes Intrinsically Safe Inputs

* Our standard 10 year warranty applies to all ATC/DEI Products

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