

Multiple Channel Isolated Switch

ISO/ISL Series



The **ISO/ISL Series multiple 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 corresponding control switch input from the hazardous location is activated. When using normally closed control switch inputs, a jumper should be installed between terminals 1 and 2. Normally open control switch inputs do not require the optional jumper.

NON-LATCHING + LATCHING OPERATIONS

When the **non-latching ISO Series** control switch input is activated, its corresponding output turns on. When the control switch input is deactivated, its output turns off.

When the **latching ISL Series** control switch input 2, 3 or 4 is activated, its corresponding output turns on. When control switch 2, 3 or 4 is deactivated, its corresponding output remains latched on as long as control switch input 1 is activated; otherwise it turns off immediately. Control switch input 1 also controls output 1 just as in the non-latching ISO Series.

ORDERING INFORMATION

Model Number	Control Voltage	Channels
ISL-24-AAE	24 VAC	2
ISL-24-ABE	24 VAC	3
ISL-24-ACE	24 VAC	4
ISL-120-AAE	120 VAC	2
ISL-120-ABE	120 VAC	3
ISL-120-ACE	120 VAC	4
ISO-24-AAE	24 VAC	2
ISO-24-ABE	24 VAC	3
ISO-24-ACE	24 VAC	4
ISO-120-AAE	120 VAC	2
ISO-120-ABE	120 VAC	3
ISO-120-ACE	120 VAC	4



TECHNICAL DATA

ATC/DEI Series	ISO/ISL Series Multiple Channel
Dimensions (WxHxD)	4"x3"x3.25"
Power Required	2.5 VA
Weight	8 oz.
Control Voltage	24 or 120 VAC ± 10%, 50/60 Hz
Duty Cycle	Continuous
Terminations	(12) #8-32 Screw terminals
Enclosure	Style "E" Lexan® Surface Mounted
Indicators	On When Corresponding Output is On
Isolation	2500 Volts, Input to Output
Contact Rating	SPST-NO., 5 amps per channel @ 24 or 120 VAC, Resistive; 278 VA, Inductive
CONTROL SWITCH	
Open Circuit Voltage	6.2 VDC
Short Circuit Voltage	10 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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