

The Dual Slide Out Control module is a member of Intellitec's Multiplex Control family. It works in combination with the PMC CPU and other standard, semi-custom, or custom I/O modules.

Intellitec's Dual Slide Out Control is designed to control the operation of two slide out room electrical mechanisms. It is a "push and hold" type of control. When the room reaches its limit of travel, the controller will automatically stop the motor. The controller automatically "learns" the average run current drawn by each motor, each time it is operated and turns it off when the mechanism reaches the limits of travel. There are no adjustments for trip level needed.

When Output Channel 1 is activated, it connects one end of the load to the Battery, while the other end is connected to Ground. Each output channel passes through a current sense circuit that remembers the last current draw from the previous operation. If the current being sensed is twice the previous average value, the "H" bridge will sense an over current condition and will disengage the output channel. The total module current should not exceed 30 Amps.

How Does it Work

To operate the slide out room, the user presses and holds the "OUT" button until the room reaches its outer limit. At that point, the controller senses the increase in current and automatically turns the motor off. The controller must be operated in the reverse direction before it can be operated in the same direction again, even through power failure.

The controller includes a low voltage shut-down to prevent damage to the motor and controller. If the voltage is less than 10.0 volts, the controller will not operate and the indicator on the switch panel will blink for approximately 30 seconds to alert the owner of the problem.

The initial activation of the Dual Slide Out Controller, it will ignore the current being drawn for approximately one second to allow for the start

up surge. After this period, it begins to monitor current and develops an average current for the slide motor each time it is activated.

Any time the DIP switch is changed, the saved values such as 'average run currents' are reset to the factory default settings which is **7.5 Amps** when the **15 Amp threshold** is selected and **10 Amps** when the **30 Amp threshold** is selected. The next time the slide is operated, the controller will measure the run current and begin replacing the 7.5 Amp level with the 'average run current' for that operation.

After five cycles, the factory settings have been replaced with those for that particular slide out. The controller now continues to monitor current and when it senses twice the "learned" current, as happens at the end of travel, the controller shuts the motor off. It also will shut the motor off at any point in the cycle if the current exceeds 15 or 30 amps, as set by the on-board dip switch.

Dual Slide Out Features

- ✎ Operates with Multipoint Master or PMC CPU.
- ✎ "Push and Hold" type of control.
- ✎ Module Dip switch addressable (A-O) and may be configured for either Channel groups 1-4 or 5-8.
- ✎ Output channels have independent over current threshold selection (15 or 30 Amps).
- ✎ Only one (1) output may operate at a time, even if more than one module is installed.

Diagnostics

LED indicators for:

- ✎ Output Channel activation on solid green.
- ✎ Output Channel flashes if over current exists or module is interlocked (PMC Channel "P6" or Ignition present "P7").
- ✎ Low voltage shutdown illuminates red LED if module incoming power 10 VDC or less and turns off output.
- ✎ Smart module operation 'Locks out' Other Slide Out modules from operating by transmitting "P6" PMC link.

Specifications

Part Number:	00-00975-000 and 00-00975-100
Operating Voltage:	10.0 to 16 VDC
Current carry capabilities:	
Continuous current	20 Amps, External fuse protection to module provided by OEM
Stall current threshold:	15 or 30 Amps
Standby current draw:	10 milliamps
Stall current runtime:	1 second after detection for 00-00975-000 5 seconds after detection for 00-00975-100
Operating Temperature:	-40 C to + 85 C (-40F to +185 F)
Operating environment:	Protected from direct weather

MATING CONNECTIONS

Designator	Function	Connector	Mating Part #	Contact, Typical
J1	Communication	2 Pin Amp Mate-N-Lok	1-480698-0	for 14-18 AWG 350919-3 for 10-12 AWG 640310-3
J2	Outputs	8 Pin Amp Mate-N-Lok	640586-1	350919-3 640310-3

MODULE SETTINGS

Module can be set for 1 of 16 address, A-O*. Set DIP 5,6, and 7 switches per table shown below.

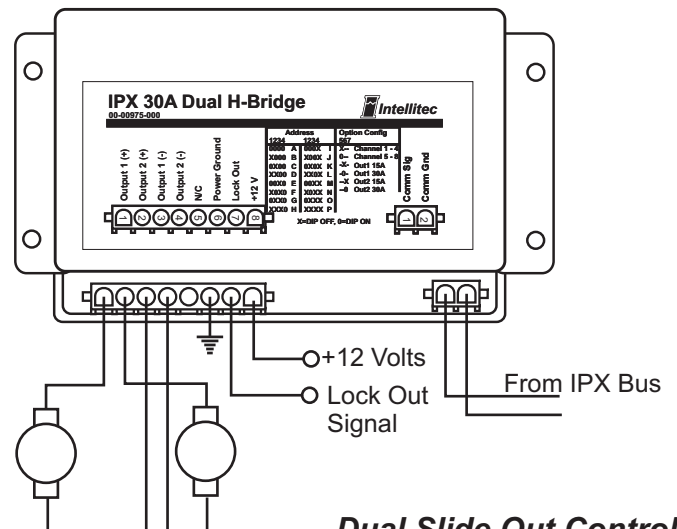
- X = Switch is OFF**
DIP 6 is for Output 1
DIP 7 is for Output 2
DIP 8 is not used
- DIP 5 ON - Selects Channel Address 5-8
OFF - Selects Channel Address 1-4
- DIP 6 ON - Sets 30 Amp Max Current Threshold
OFF - Sets 15 Amp Max Current Threshold
- DIP 7 ON - Sets 30 Amp Max Current Threshold
OFF - Sets 15 Amp Max Current Threshold

* Lock Out function not available for this address.

SWITCH	MODULE	SWITCH	MODULE
8 7 6 5 4 3 2 1	Address	8 7 6 5 4 3 2 1	Address
0 0 0 0	A	X 0 0 0	I
0 0 0 X	B	X 0 0 X	J
0 0 X 0	C	X 0 X 0	K
0 0 X X	D	X 0 X X	L
0 X 0 0	E	X X 0 0	M
0 X 0 X	F	X X 0 X	N
0 X X 0	G	X X X 0	O
0 X X X	H	X X X X	P*

Channel Designations

Channel	Connection	Type
Comm +	J1-1	Comm Sig (+)
Comm -	J1-2	Comm Sig (-)
Output 1	J2-1	Out 1 (+)
Output 2	J2-2	Out 2 (+)
Output 1	J2-3	Out 1 (-)
Output 2	J2-4	Out 2 (-)
N/C	J2-5	No Connection
Pwr Gnd	J2-6	Pwr Ground
Lock Out	J2-7	Lock Out
Power In	J2-8	Power (12V)





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