



L300WS2M1

R.B.Denison™ Lox-Switch™ L

Table 21.83: General Specifications

Temperature range	0 to +200 °F (-17 to +93 °C) standard. For high and low temperature options, see page 21-45 . Minimum temperatures are based on the absence of freezing moisture or water.
Enclosure rating	NEMA 1, 4, and 13; IP 65, 66
Vibration resistance	30G max. (10–55Hz)
Repeatability	0.03°
Cable entry	1/2" NPT standard double circuit, 3/4" NPT triple circuit
Contact Characteristics	
Rated thermal current	20 A
Rated insulation voltage	600 Vac and Vdc
Wire (max.)	1 x 12 AWG or 2 x 14 AWG per screw terminal

Table 21.84: Switching Ratings: A600 (AC), P600 (DC)

Contact Rating Designation (M=Make, B=Break)	Maximum current (A)												Maximum VA	
	120 V		125 V		240 V		250 V		480 V		< 600 V		M	B
A600 (AC)	60	6.00	—	—	30	3.00	—	—	15	1.50	12	1.20	7200	720
P600 (DC)	—	—	1.1	1.1	—	—	0.55	0.55	—	—	0.2	0.2	138	138

Mounting Plates, L100 and L300 Models

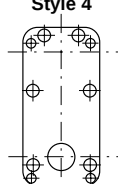
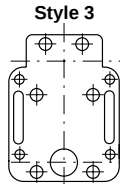
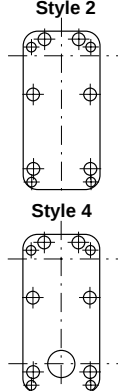
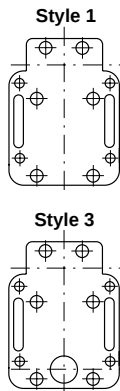


Table 21.85: Type L Selection

Select L100 for a standard (mill) switch and L300 for an extra heavy duty (foundry) switch

Description	Contact Diagram	Operating Torque	Cat. No.
Snap-action CW Spring return		190 oz-in (1.34 N•m)	L100WS2M1
		190 oz-in (1.34 N•m)	L300WS2M1
Snap-action CCW Spring return		190 oz-in (1.34 N•m)	L100WS2M2
		190 oz-in (1.34 N•m)	L300WS2M2
Maintained contact CW and CCW Snap action ^[5]		45 oz-in (0.32 N•m)	L100WS2M3
		45 oz-in (0.32 N•m)	L300WS2M3
Snap action CW Spring return		190 oz-in (1.34 N•m)	L100WDR2M4
		190 oz-in (1.34 N•m)	L300WDR2M4
Neutral position N.O.-CW, N.O.-CCW Spring return Snap action ^[5]		170 oz-in (1.2 N•m)	L100WNS2M26
		170 oz-in (1.2 N•m)	L300WNS2M26
Neutral position N.O.-CW, N.O.-CCW Maintained in CW only ^[5]		170 oz-in (1.2 N•m)	L100WNSL2M29
		170 oz-in (1.2 N•m)	L100WNSL2M29
2 Step Sequence CW Spring return, Snap action, 2 N.O.		150 oz-in (1.06 N•m)	L525WDR2M56
2 Step Sequence CCW Spring return, Snap action, 2 N.O.		150 oz-in (1.06 N•m)	L525WDL2M57
2 Step Sequence CW Spring return, Snap action, 2 N.C.		150 oz-in (1.06 N•m)	L525WDL2M58
2 Step Sequence CCW Spring return, Snap action, 2 N.C.		150 oz-in (1.06 N•m)	L525WDR2M59
2 Step Sequence CW Spring return Snap action N.O./N.C		150 oz-in (1.06 N•m)	L100WS0S2M60

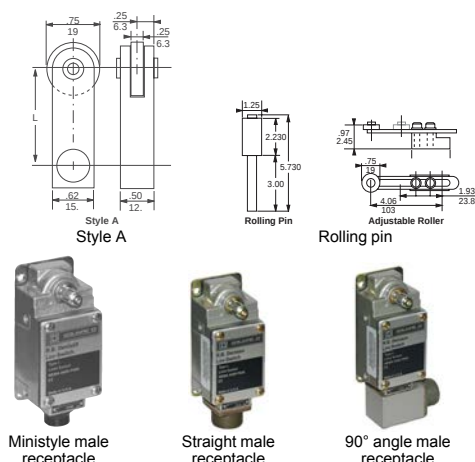
[5] The lever must not be allowed to snap freely from any overtravel position.

Interpreting the Catalog Numbers

Use the table below to interpret the catalog numbers of the L100/L300 switches. Do **not** generate new catalog numbers from the table. If the required contact sequence is not listed, contact your local field office.

The only modifications to the existing catalog numbers are:

- Mounting Plates—Style 1, 2, 3 or 4
- Front Covers—Metal, transparent plastic, or transparent plastic with a neon light.
- Special Features—Select from catalog **9006CT1007** and add to the type number.



Style	Housing			Function		Mounting Plate	Front Cover		Contact Arrangement					
L	1	0	0	W	S	2	P	F						
Standard (mill)	100					1		M	See catalog 9006CT1007					
Extra heavy duty (foundry)														2
	300										3	GF		
Two circuit single operation													WS	
Two circuit dual operation				WD	Transparent plastic									
Triple circuit				WT	Transparent plastic with neon light									
Neutral				WN										

Table 21.86: Steel Roller Lever Arms (0.25 in. wide, 0.75 in. dia.)

Length (L)		Lever Number
in.	mm	
1.50	(38.1)	AA
2.00	(50.8)	AH
2.50	(63.5)	AO
2.75	(69.8)	AK
3.00	(76.2)	AB
4.00	(101.6)	AM
6.00	(152.4)	AR

Table 21.87: Lever Arm Options [6]

Description	Suffix
1 in. diameter roller	1
1-1/4 in. diameter roller	4
1-1/2 in. diameter roller	2
Nylon roller	N
Ball bearing roller (3/4 in. diameter)	R
Stainless steel roller pin nylon roller	NS
Ex: AB1: ABR	

Table 21.88: Rolling Pin

For use with 2 step switches for conveyor or belt applications

Length (L), In. (mm)	Lever Number
2.25 (75.1)	AL1650
2.25 (75.1) (Teflon for high temperature applications)	AL16501
3 (50.8)	AL1802

Table 21.89: Roller, Adjustable

from 2 to 4 in. (0.25 in. wide, 0.75 in. diameter)

Length (L), in. (mm)	Lever Number
Adjustable 2 to 4 (50.8 to 101.6)	AL2820

Table 21.90: Housing options [6]

Description	Examples	Prefix Adder or Modifier
3/4" conduit opening: Available on 2 circuit switches. Standard on 3 circuit switches.	L100WS2M1 changes to GL 100WS2M1	G
High temperature 0 to +350 °F [7] Metal front cover only	L100WS2M1 changes to HL 100WS2M1	H
Low temperature -20 to +200 °F [7]	L100WS2M1 changes to TL 100WS2M1	T
High shock. Available only on operating sequences 1, 2, 4, 5, 7-11, 13, 14.	L100WS2M1 changes to L526 WS2M1 L300WS2M1 changes to L326 WS2M1	526/326
Gold contacts	L100WS2M1 changes to L522 WS2M1 L300WS2M1 changes to L322 WS2M1	522/322

Table 21.91: Wiring [6]

Description		Examples	Prefix Adder or Modifier
Straight male receptacle 4 pin [8]	Factory prewired	L100WS2M1 changes to PL 100WS2M1	P
90° Angle male receptacle 4 pin [8]	Factory prewired—facing right	L100WS2M1 changes to APL 100WS2M1	AP
Ministyle male receptacle [9]	8 A max., 5 pin (double circuit) 7 A max., 7 pin (triple circuit)	L100WS2M1 changes to BL 100WS2M1	B
Potted and prewired	5 wires, 6 ft long 5 wires, 12 ft long 5 wires 18 ft long	L100WS2M1 changes to L100WS2M1 P L100WS2M1 changes to L100WS2M1 P12 L100WS2M1 changes to L100WS2M1 P18	P P12 P18

Table 21.92: Accessories

Description		Catalog Number
Sealed female plug and cable for P and AP receptacles		
4 pins, 16 AWG STO cable, 60 °C	4 ft	1010004
	6 ft	1010006
	10 ft	10100010
Sealed female plug and cable for minstyle receptacle (B)		
5 pins, 16 AWG STO cable, 105 °C	3 ft cable	BH2053
	6 ft cable	BH2056
	12 ft cable	BH20512

Table 21.93: Front covers [6]

Description	Designator
Standard metal	M
Transparent plastic cover with metal frame	PF
Transparent plastic cover with metal frame and Neon indicator light (not connected)	GF

Example: L100WS2M1 changes to L100WS2**PF**1