

INSTRUCTION MANUAL

ELECTRIC LEVEL CONTROLS

LINC-L471 • LINC-L471SC • LINC-LV471 • LINC-L971

*Recognized as a
world-class leader in
Electric & Pneumatic
level control switches,
flow indicators,
chemical metering
pumps, and
allied products.*

ELECTRIC LEVEL CONTROLS

PRODUCT DESCRIPTION

Scope Of This Manual:

This manual describes and provides instructions and parts lists for the LINC-L471, LINC-L471SC, LINC-LV471 and LINC-L971 Series Electric Level Controls.

Product Description:

Used as a high & low level control, the L471 & L471SC can activate alarms, provide a switch input for control systems, or perform a variety of desired electrical switch operations actuated by a liquid or liquid interface.

Operation:

As the float is moved by varying liquid height, a magnet is moved closer to or further away from a switch enclosure. As the magnet moves closer, a reed switch in the enclosure closes. As the magnet moves further away, the switch opens. The arm containing the magnet also acts as a counterweight for the float.

The float is small and will operate in liquids with a specific gravity as low as 0.4. The interface type float will operate with a specific gravity differential as low as 0.1. The small float permits an economical installation in locations where other controls would be cost prohibitive. With the optional relay mounted in an explosion-proof case, the control of larger electrical loads can be obtained. The manual override option allows the operator to manually move the float arm to the test switch position.

The SC Series is designed to eliminate the threaded control connection in mounting with the use of a bolted ring per API recommended practice RP14E. The external cage allows for installation of the control at any elevation.

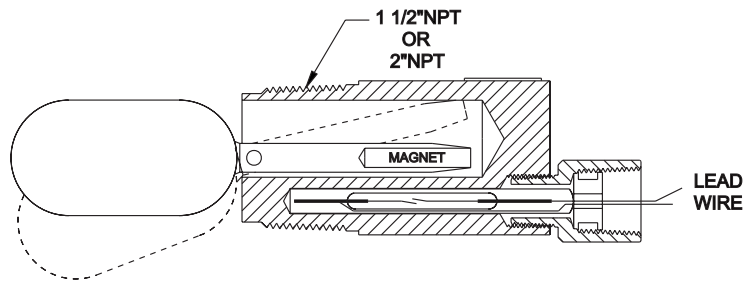


Figure 1

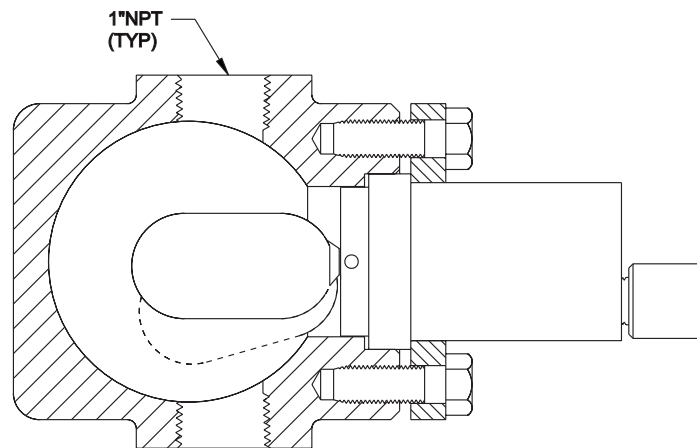


Figure 2

Features:

- All wetted parts isolated from the environment. These level controls are safe even in the event of fire.
- *Certified as explosion proof for Hazardous Locations: Class I, Div. 1, Groups A, B, C, D; Class II, Div. 1, Groups E, F, G; & Class III, Div. 1.
- All 316 stainless steel wetted parts provide corrosion resistance. Also available in Monel, Kynar and other plastics.
- Our sealed switch assembly prevents dust, dirt, or moisture from affecting the level control's operation. Classified "Factory Sealed" by CSA/NRTL/C.
- Cartridge switch assembly provides easy field replacement and servicing.
- High or low alarm, normally open or normally closed operation simply by inverting the level control.

*When a relay assembly is used, Class I, Div. 1, is limited to groups C and D.

LINC

LEVEL CONTROL

ELECTRIC LEVEL CONTROLS

I N S T A L L A T I O N

Installation

Before installing the level control, inspect the unit for any damage. The float arm must pivot freely. Thread the level control into the desired connection. See Figure 3 for suggested installations. The float requires a minimum clearance of 1 1/4" from the center line of the unit for proper operation. For operation as a high level alarm, the conduit connection must be positioned to the lowest possible location. For operation as a low level alarm, the conduit connection must be positioned to the highest possible location. Wiring connections may now be made. Do not allow the wiring connections to pull on the switch assembly.

Caution: Do not exceed switch ratings.

LINC-L471, LINC-L471SC:
SPST, 100 VA AC with 3
AMP inrush capability,
maximum 250 volts.

Breakdown voltage is 300 volts. Electrical ratings are given for resistive loads. For inductive loads, de-rate the switch rating by 50% and do not exceed the VA ratings on the inrush current. If the applied load is inductive, such as a relay or coil, then a protective device should be used to prevent "inductive

kick," which may burn the switch contacts. The protective device recommended is dependent on the voltage used. For DC operation, a diode similar to an IN34A should be wired in parallel with the switch. See Figure 4, wiring schematic. For AC operation, a Varistor should be wired in parallel with the switch. Recommended Varistor for

110 VAC is a G.E. #V150-LA1 and for 220 VAC a G.E. #V300-LA2. See Figure 4, Wiring Schematic.

For SPDT Switch Cartridge Wiring:

White - Common
Black - Normally Closed
Red - Normally Open

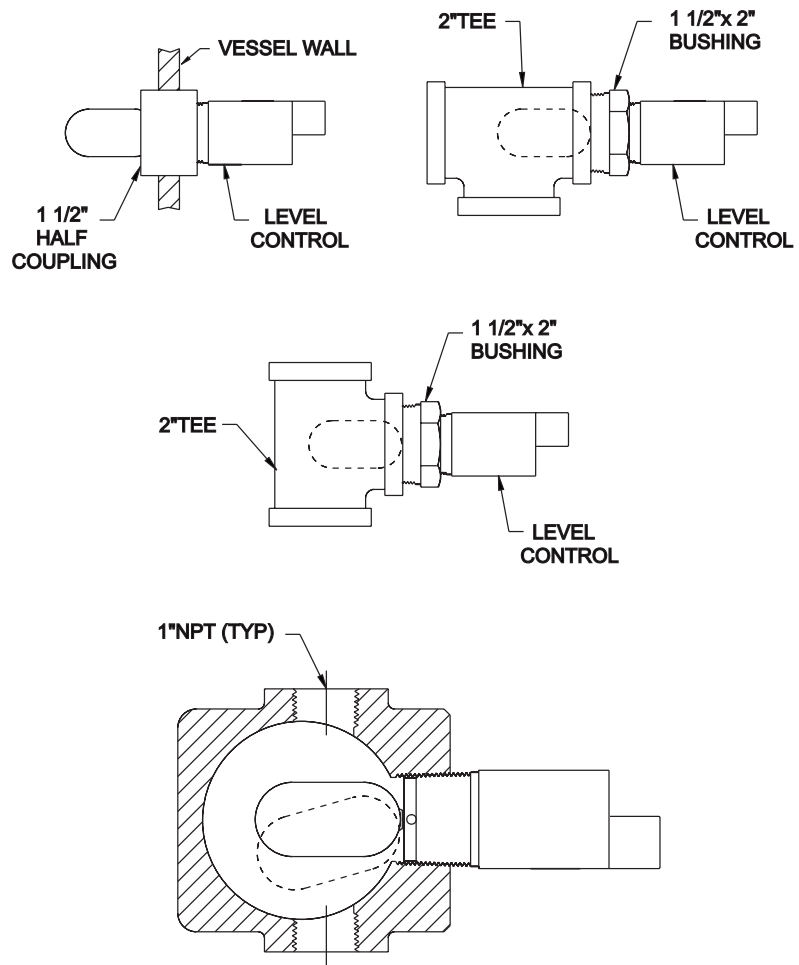


Figure 3

ELECTRIC LEVEL CONTROLS

M A I N T E N A N C E

Maintenance:

The LINC-L471 and LINC-L471SC Series electric level controls have been designed to be as maintenance free as possible. However, the component parts are subject to normal wear and must be inspected and replaced as necessary. Inspection and maintenance frequency depend upon the severity of service conditions. Instructions are provided in this section for maintaining the controls as units, i.e., float and float arm, relay and switch cartridge.

All the maintenance procedures below assume that the control has been removed from service. The switch and relay can be serviced with the control installed. The power must be disconnected before removing the relay enclosure cover or opening the conduit fitting.

Float & Float Arm:

Check the physical clearance for float operation. The float must swing freely. Solvent cleaning of the float arm chamber may be required if used in viscous or dirty liquids. If the float has collapsed or is perforated, unscrew the float from the float arm and replace with a new float. Use Loctite® to secure the float to the float arm. To remove the float arm,

drive out the pivot pin using a 1/8" punch. When installing the float arm, make certain that the threaded offset of the float arm is against the thick wall of the body.

Relay:

To test for proper relay function, disconnect the switch leads from the relay socket. Apply appropriate voltage to the coil terminals and observe the relay contact closure with an ohmmeter connected across the common and normally closed contacts. Interrupt the coil power supply several times while observing the ohmmeter. No movement indicates a defective relay, coil or contacts. This procedure should be repeated for each set of contacts in service.

To remove a defective relay, simply pull the relay from the socket and replace with a new relay.

When ordering a replacement relay, be certain to specify coil voltage. After installing a new relay, reconnect the switch leads.

Switch:

To test for switch malfunction, connect an ohmmeter across the electrical leads and observe the meter as the float assembly is mechanically operated. No meter move-

ment indicates a switch failure.

To replace a switch on the LINC-L471 or LINC-L471SC Series, pull out the switch cartridge along with the grommet through the conduit adapter. Slide the new switch cartridge into the body. Route the switch wired through the grommet and seat the grommet in the conduit adapter.

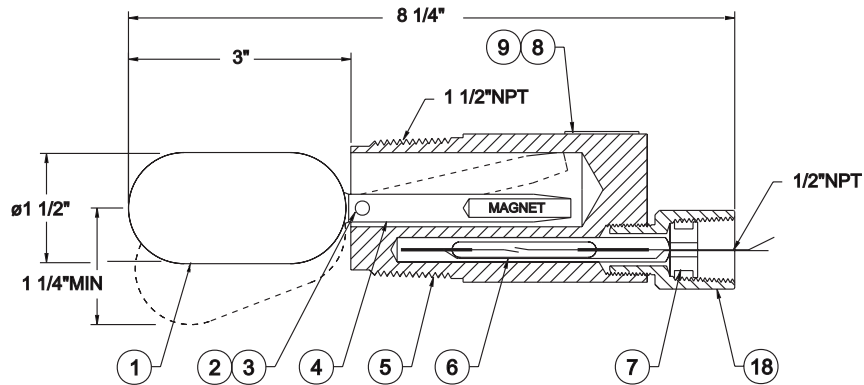
LINC

LEVEL CONTROL

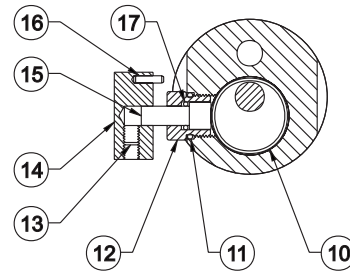
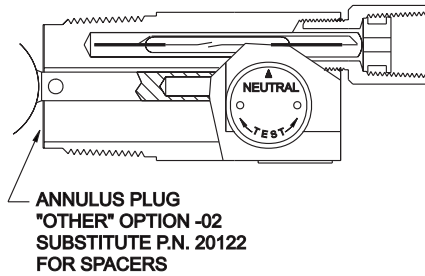
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ELECTRIC LEVEL CONTROLS

L I N C - L 4 7 1 - 0 1



Model LINC-L471-01



MANUAL OVERRIDE, STANDARD BODY
Body Style -2, -4

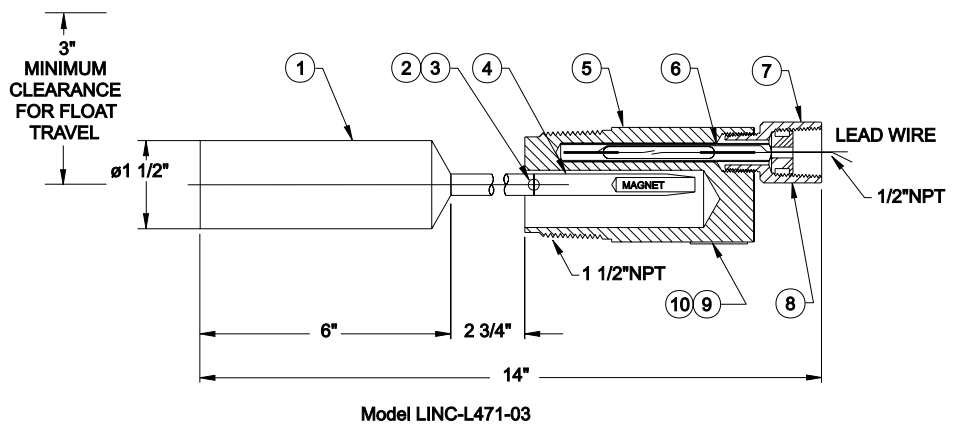
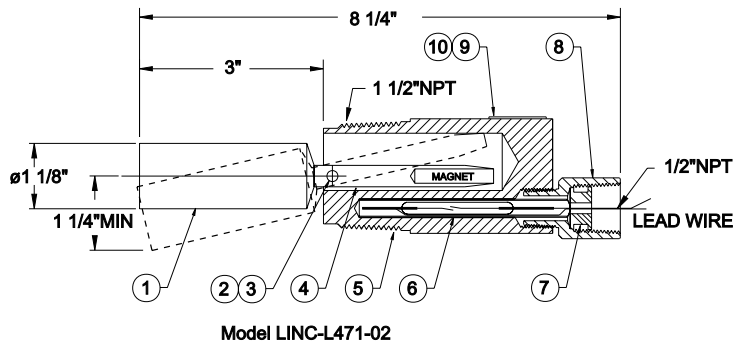
Model	L471-01	L471-21	Description	Material	Qty
Item	Part#	Part#			
1	10245	10245	Float	316 ss	1
2	20120	20120	Pin	316 ss	1
3	20121	20121	Spacer	316 ss	2
4	20853	24883	Float Arm Assembly	316 ss	1
5	30313	30715	Body	316 ss	1
6*	20495	20495	Switch Cartridge	304 ss	1
7	10087	10087	Grommet	Nitrile	1
8	10012	10012	Name Plate	316 ss	1
9	10324	10324	Drive Screw (not shown)	18-8 ss	4
10		24885	Ring Weldment	316 ss	1
11		10996	O-Ring	Fluorocarbon	1
12		22271	Packing Gland	316 ss	1
13		10621	Set Screw	18-8 ss	1
14		22577	Knob	303 ss	1
15		24875	Stem	316 ss	1
16		11192	Roll Pin	18-8 ss	3
17		10108	O-Ring	Fluorocarbon	1
18	20119	20119	Conduit Adapter	303 ss	1
19		11193	Name Plate (not shown)	Sealed	1
20	24834	24834	Switch Cartridge SPST 500°F (Optional)	Sealed	1
21	24835	24835	Switch Cartridge SPDT 500°F (Optional)	Sealed	1
22	24836	24836	Switch Cartridge SPDT 400°F (Optional)	Sealed	1

*Recommended spare

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LEVEL CONTROL

ELECTRIC LEVEL CONTROLS

LINC - L471 - 02 & LINC - L471 - 03

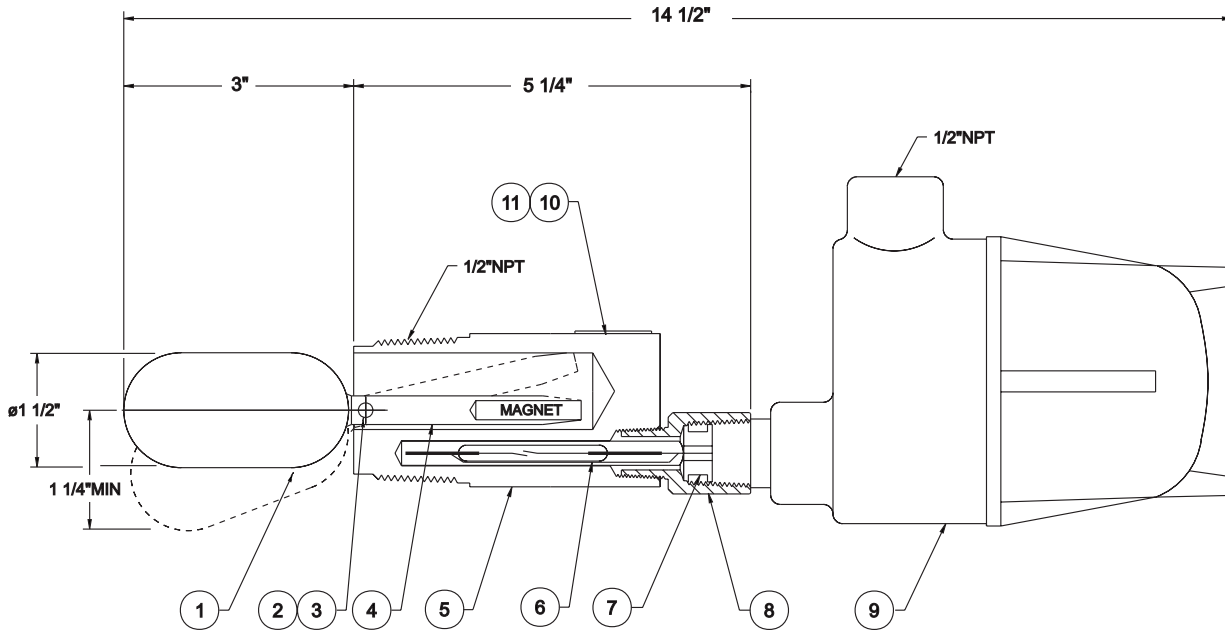


Model	L471-02	L471-03	Description	Material	Qty
1	20149	20136	Float	Polypropylene	1
2	20120	20120	Pin	316 ss	1
3	20121	20121	Spacer	316 ss	2
4	20853	21671	Float Arm Assembly	316 ss	1
5	30313	30313	Body	316 ss	1
6*	20495	20495	Switch Cartridge	Sealed	1
7	10087	10087	Grommet	Nitrile	1
8	20119	20119	Conduit Adapter	303 ss	1
9	10012	10012	Name Plate	316 ss	1
10	10324	10324	Drive Screw (not shown)	18-8 ss	2
11	24834	24834	Switch Cartridge SPST 500°F (Optional)	Sealed	1
12	24835	24835	Switch Cartridge SPDT 500°F (Optional)	Sealed	1
13	24836	24836	Switch Cartridge SPDT 400°F (Optional)	Sealed	1

*Recommended spare

ELECTRIC LEVEL CONTROLS

L I N C - L 4 7 1 - 0 1 - 0 4



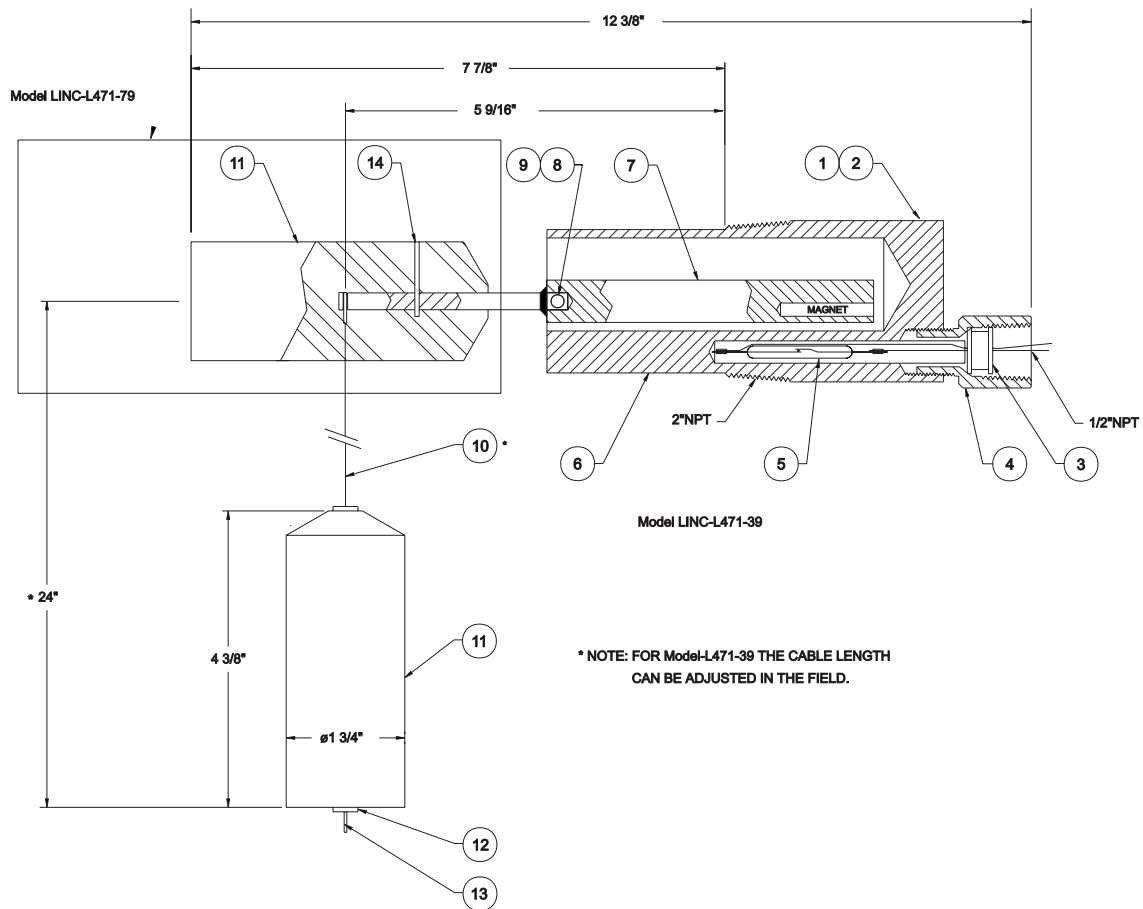
Model	LINC-L471-01-04			
Item	Part #	Description	Material	Qty
1	10245	Float	316 ss	1
2	20120	Pin	316 ss	1
3	20121	Spacer	316 ss	2
4	20853	Float Arm Assembly	316 ss	1
5	30313	Body	316 ss	1
6*	20495	Switch Cartridge	Sealed	1
7	10087	Grommet	Nitrile	1
8	20119	Conduit Adapter	303 ss	1
9	21593	Relay Assembly (110 VAC see relays)		1
10	10419	Name Plate	316 ss	1
11	10324	Drive Screw (not shown)	18-8 ss	2
12	24834	Switch Cartridge SPST 500°F (Optional)	Sealed	1
13	24835	Switch Cartridge SPDT 500°F (Optional)	Sealed	1
14	24836	Switch Cartridge SPDT 400°F (Optional)	Sealed	1

*Recommended spare

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LEVEL CONTROL

ELECTRIC LEVEL CONTROLS

L I N C - L 4 7 1 - 3 9 & 7 9



Model	L471-39	L471-79	Description	Material	Qty
1	10012	10012	Name Plate	316 ss	1
2	10324	10324	Drive Screw	18-8 ss	2
3	10087	10087	Grommet	Nitrile	1
4	20119	20119	Conduit Adapter	303 ss	1
5**	20495	20495	Switch Cartridge	Sealed	1
6	31079	31079	Body	316 ss	1
7	23540	23540	Float/Magnet Arm	316 ss	1
8	20334	20334	Pin	316 ss	1
9	23604	23604	Spacer	316 ss	2
10	11566		Wire Cable	304 ss	24"
11	23503	23503	Displacer	Polypropylene	1
12	23500		Stop Ring	316 ss	1
13	11565		Crimp	18-8 ss	3
14		11571	Pin	316 ss	1
15	24834	24834	Switch Cartridge SPST 500°F (Optional)	Sealed	1
16	24835	24835	Switch Cartridge SPDT 500°F (Optional)	Sealed	1
17	24836	24836	Switch Cartridge SPDT 400°F (Optional)	Sealed	1

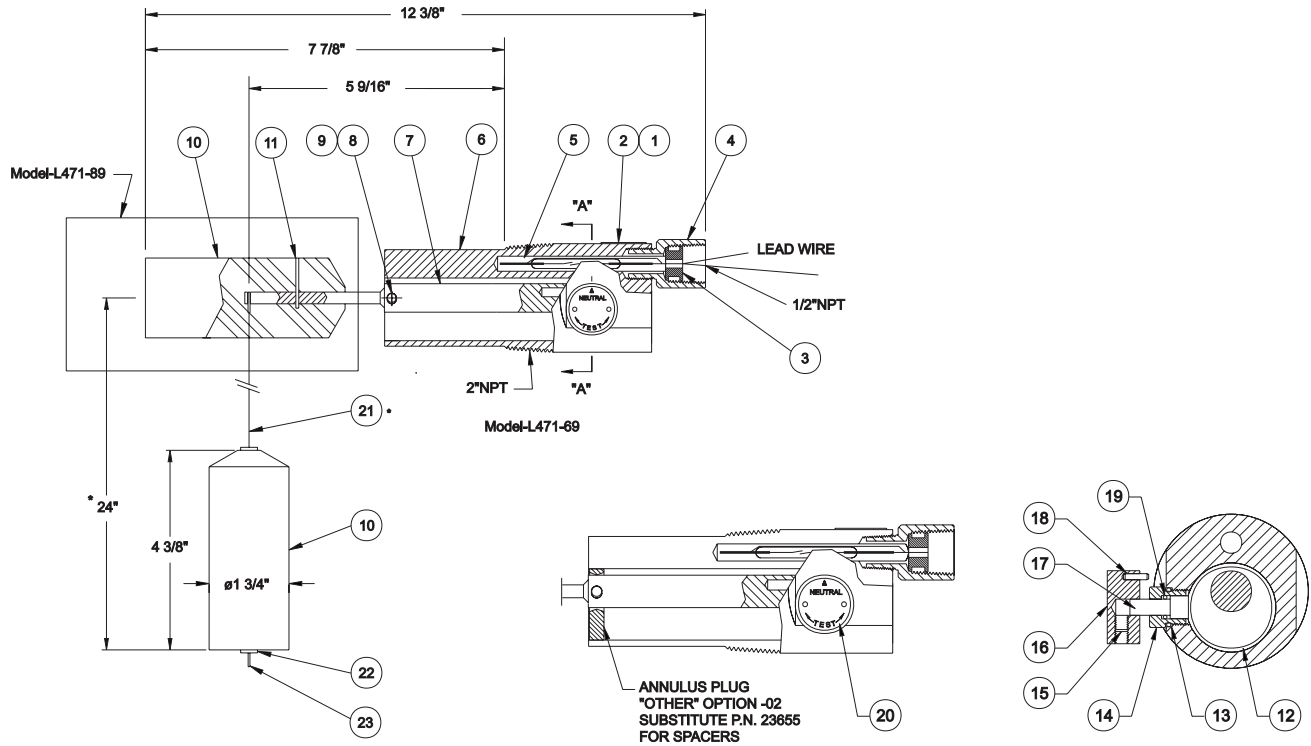
**Recommended spare

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LEVELCONTROL

ELECTRIC LEVEL CONTROLS

L I N C - L 4 7 1 - 6 9 & 8 9



NOTE: FOR Model-L471-69, THE CABLE LENGTH CAN BE ADJUSTED IN THE FIELD.

MANUAL OVERRIDE, EXTENDED BODY
Body Style -6, -8

Model	L471-69	L471-89			
Item	Part #	Part #	Description	Material	Qty
1	10012	10012	Name Plate	302 ss	1
2	10324	10324	Drive Screw	18-8 ss	4
3	10087	10087	Grommet	Nitrile	1
4	20119	20119	Conduit Adapter	303 ss	1
5*	20495	20495	Switch Cartridge	Sealed	1
6	31079	31265	Body	316 ss	1
7	24083	24083	Float/Magnet Arm	316 ss	1
8	20334	20334	Pin	316 ss	1
9	23604	23604	Spacer	316 ss	1
10	23503	23503	Displacer	Polypropylene	1
11		11571	Pin	316 ss	1
12	24887	24887	Ring Weldment	316 ss	1
13	10996	10996	O-Ring	Fluorocarbon	1
14	22271	22271	Packing Gland	316 ss	1
15	10621	10621	Set Screw	18-8 ss	1
16	22577	22577	Knob	303 ss	1
17	24875	24875	Stem	316 ss	1
18	11192	11192	Roll Pin	15-7 PH ss	3
19	10108	10108	O-Ring	Fluorocarbon	1
20	11193	11193	Name Plate Manual Check	304 ss	1
21	11566		Wire Cable	304 ss	
22	23500		Stop Ring	316 ss	2
23	11565		Crimp	18-8 ss	3
24	24834	24834	Switch Cartridge SPST 500°F (Optional)	Sealed	1
25	24835	24835	Switch Cartridge SPDT 500°F (Optional)	Sealed	1
26	24836	24836	Switch Cartridge SPDT 400°F (Optional)	Sealed	1

*Recommended spare

LINC
LEVEL CONTROL

ELECTRIC LEVEL CONTROLS

ELECTRIC RELAYS

Installation & Maintenance:

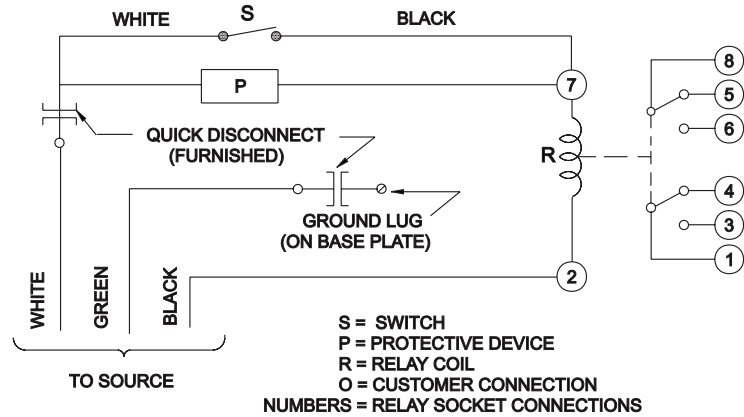
- AC Voltage DPDT Plug-In Type Relay Or DC Voltage DPDT Plug-In Type Relay:
 1. Check the relay coil to assure it is rated for your source voltage.
 2. Connect one side of the source to the white wire within the enclosure using accepted electrical practices. Connect the other side of the source (black wire) terminal #2.
 3. The load may now be wired to terminals #1, #3, #4 and #8, #5 and #6.
 4. Secure the enclosure cover prior to applying source voltage.
 5. Apply source voltage.

For use in an SPDT function, follow the above instructions, except omit connections for the load to terminals #8, #5, and #6.

Caution: On DC applications, the protective device is directional. If polarity is reversed, the switch could be damaged.

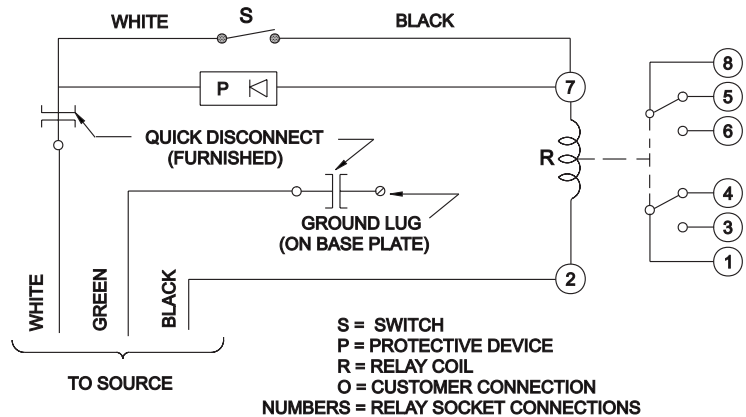
WIRING SCHEMATIC

FOR AC VOLTAGE DPDT, PLUG-IN TYPE RELAY

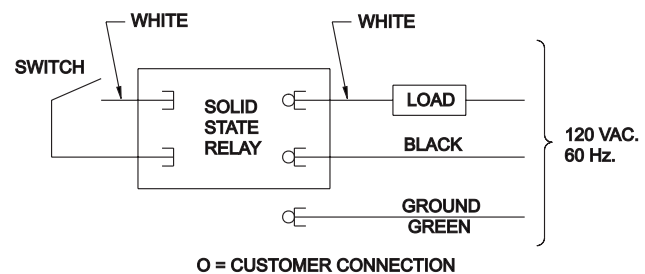


WIRING SCHEMATIC

FOR DC VOLTAGE DPDT, PLUG-IN TYPE RELAY



SOLID STATE RELAY WIRING SCHEMATIC

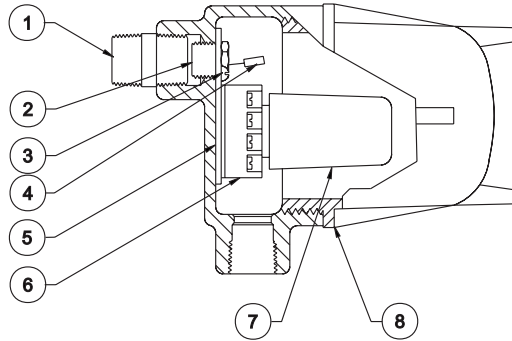


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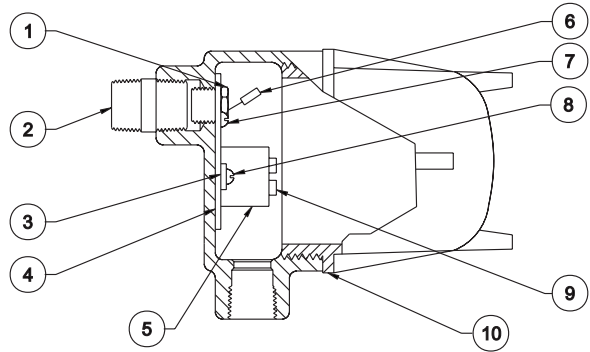
LEVEL CONTROL

ELECTRIC LEVEL CONTROLS

E L E C T R I C R E L A Y S



Model LINC - 21593



Model LINC - 21537

Model	LINC-21593	115 VAC Plug-In Relay		
Item	Part #	Description	Material	Qty
1	10236	Nipple	Plated	1
2	10376	Bushing	Brass	1
3	10189	Round Head Screw	Plated	1
4	12001	Terminal ring	Insulated	1
5	20948	Mounting Plate	Aluminum	1
6	10472	Relay Base	Plastic	1
7*	10688	Relay (110 VAC)		1
8	21501	Relay Enclosure with Lid	Plated	1
9	10623	Quick Disconnect, 1/4" F (not shown)	Insulated	1
10*	10239	Protective Device (not shown)		1
11	10420	Insulating Tubing (not shown)	PVC	**
12	10423	Wire Lug (not shown)	Insulated	1
13	10436	Round Head Screw (not shown)	18-8 ss	1
14	10925	Quick Disconnect, M (not shown)	Insulated	1

*Recommended spare
**As required

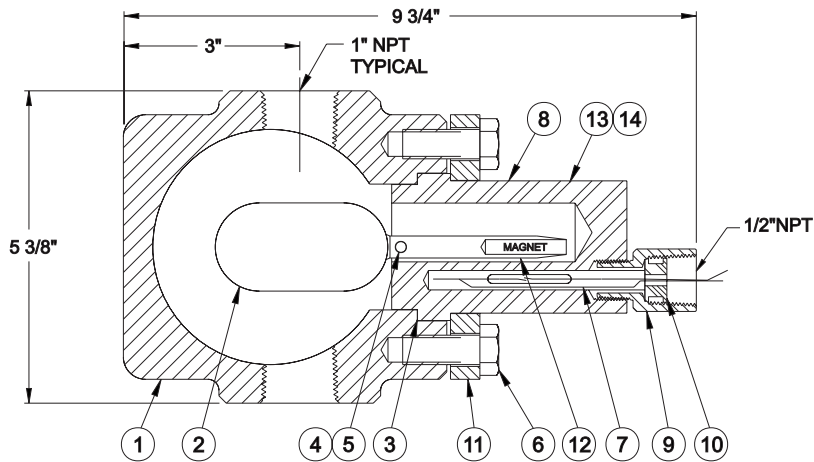
For Other Variations				
Relay Assembly	Coil Voltage	Item 7	Item 10	
21593	115 VAC	10688	10239	
21594	240 VAC	10729	10426	
21589	6 VDC	10725	10425	
21590	12 VDC	10726	10425	
21591	24 VDC	10727	10425	
20286	110 VDC	10587	10425	

Model	LINC-21537	Solid State Relay		
Item	Part #	Description	Material	Qty
1	10376	Bushing	Brass	1
2	10236	Nipple	Plated	1
3	10698	Washer	Plated	2
4	20948	Mounting Plate	Aluminum	1
5*	10233	Relay (110/220 VAC)		1
6	12001	Terminal Ring	Insulated	1
7	10189	Round Head Screw	Plated	1
8	10190	Round Head Screw	18-8 ss	2
9	10623	Wire Lug	Insulated	4
10	21501	Relay Enclosure with Lid	Plated	1

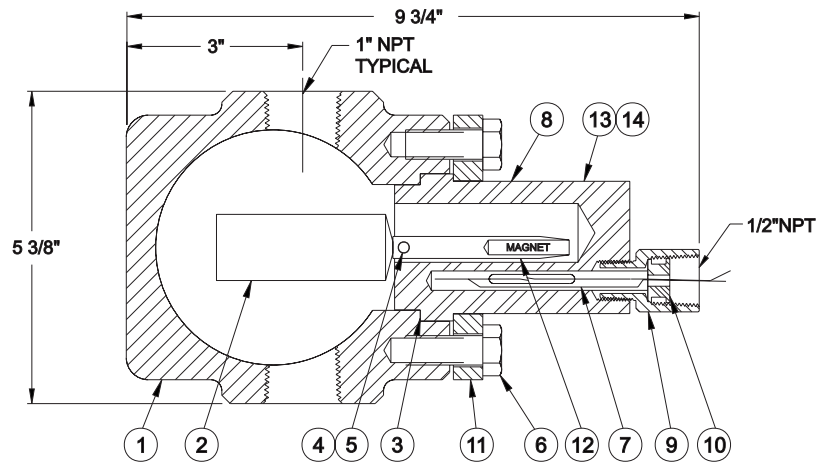
*Recommended spare

ELECTRIC LEVEL CONTROLS

LINC-L471SC-01 & LINC-L471SC-02



Model LINC-L471SC-01



Model LINC-L471SC-02

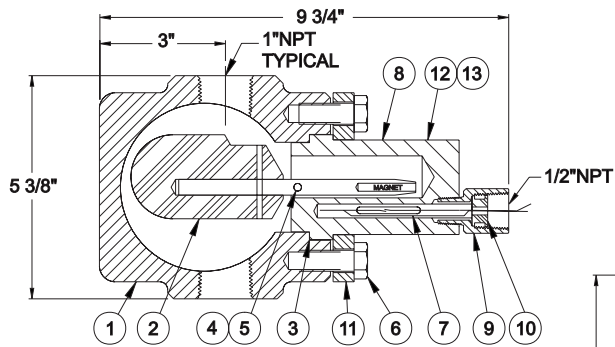
Model	L471SC-01	L471SC-02			
Item	Part #	Part #	Description	Material	Qty
1	40256	40256	Cage	Cast Steel	1
2	10245		Float	316 ss	1
		20149	Float	Polypropylene	1
3*	11257	11257	Gasket	TFE	1
4	20334	20334	Pin	316 ss	1
5	20121	20121	Spacer	316 ss	2
6	10211	10211	Cap Screw	Plated	6
7*	20495	20495	Switch Cartridge	Sealed	1
8	30282	30282	Body	316 ss	1
9	20119	20119	Conduit Adapter	303 ss	1
10	10087	10087	Grommet	Nitrile	1
11	30258	30258	Ring Flange	Steel	1
12	20853	20853	Float Arm Assembly	316 ss	1
13	10013	10013	Name Plate	316 ss	1
14	10324	10324	Drive Screw (not shown)	18-8 ss	2
15	24834	24834	Switch Cart. SPST 500°F (Optional)	Sealed	1
16	24835	24835	Switch Cart. SPDT 500°F (Optional)	Sealed	1
17	24836	24836	Switch Cart. SPDT 400°F (Optional)	Sealed	1

*Recommended spare

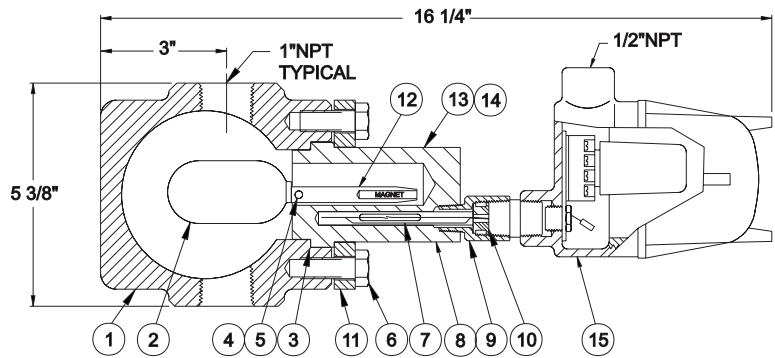


ELECTRIC LEVEL CONTROLS

LINC-L471SC-03 & LINC-L471SC-04



Model LINC-L471SC-03



Model LINC-L471SC-01-04

Model	L471SC-03	L471SC-01-04			
Item	Part #	Part #	Description	Material	Qty
1	40256	40256	Cage	Cast Steel	1
2	10245	10245	Float	316 ss	1
3*	11257	11257	Gasket	TFE	1
4	20334	20334	Pin	316 ss	1
5	20121	20121	Spacer	316 ss	2
6	10211	10211	Cap Screw	Plated	6
7*	20495	20495	Switch Cartridge	Sealed	1
8	30282	30282	Body	316 ss	1
9	20119	20119	Conduit Adapter	303 ss	1
10	10087	10087	Grommet	Nitrile	1
11	30258	30258	Ring Flange	Steel	1
12	10013	See below	Name Plate	316 ss	1
13	10324	See below	Drive Screw (not shown)	18-8 ss	2
14	24834	See below	Switch Cart. SPST 500°F (Optional)	Sealed	1
15	24835	See below	Switch Cart. SPDT 500°F (Optional)	Sealed	1
16	24836	See below	Switch Cart. SPDT 400°F (Optional)	Sealed	1

*Recommended spare

Model	L471SC-01-04			
Item	Part #	Description	Material	Qty
12	20853	Float Arm Assembly	316 ss	1
13	10013	Name Plate	316 ss	1
14	10324	Drive Screw (not shown)	18-8 ss	2
15	21593	Relay Assembly (110 VAC see relays)		1
16	24834	Switch Cart. SPST 500°F (Optional)	Sealed	1
17	24835	Switch Cart. SPDT 500°F (Optional)	Sealed	1
18	24836	Switch Cart. SPDT 400°F (Optional)	Sealed	1

*Recommended spare

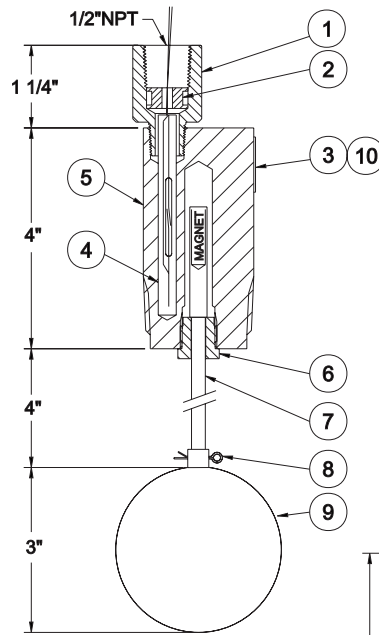
LINC
LEVEL CONTROL

ELECTRIC LEVEL CONTROLS

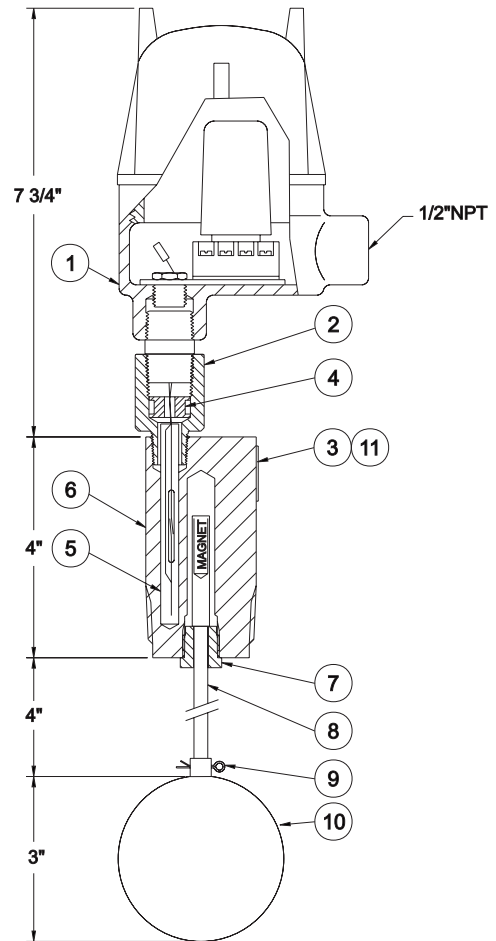
L I N C - L V 4 7 1 : V E R T I C A L

Product Description:

The LV-471 is used as a high or low level control to sound alarms, operate control equipment or perform a variety of desired electrical functions. These controls will operate in any specific gravity of 0.7 or higher. The standard unit has a 3" O.D. spherical float and is rated at 250 psi. The standard float arm is 4" long. Various floats and float arm lengths are available to fit your application. These controls are available with a normally closed or normally open switch arrangement. This unit is installed through a 1-1/2" NPT fitting and the float is attached with a cotter key after the body is screwed into place. Various flanged models are also available to meet your specifications.



Model LINC-LV471-04
Normally Closed



Model LINC-LV471-04-04
Normally Closed

LINC
LEVEL CONTROL

ELECTRIC LEVEL CONTROLS

L I N C - L V 4 7 1 : V E R T I C A L

Model LINC-LV471-04 Normally Closed				
Item	Part #	Description	Material	Qty
1	20119	Conduit Adapter	303 ss	1
2	10087	Grommet	Nitrile	1
3	10012	Name Plate	316 ss	1
4*	20495	Switch Cartridge	Sealed	1
5	30316	Body	316 ss	1
6	20152	Float Arm Retainer	316 ss	1
7	20444	Float Arm Assembly	316 ss	1
8	10237	Cotter Pin	18-8 ss	1
9	10250	Float	316 ss	1
10	10324	Drive Screw (not shown)	18-8 ss	2
11	24834	Switch Cartridge SPST 500°F (Optional)	Sealed	1
12	24835	Switch Cartridge SPDT 500°F (Optional)	Sealed	1
13	24836	Switch Cartridge SPDT 400°F (Optional)	Sealed	1

Note: For models below, use the same parts as listed above with the following exceptions:

Model LINC-LV471-03 Normally Open				
Item	Part #	Description	Material	Qty
7	20446	Float Arm Assembly	316 ss	1

*Recommended spare

Model LINC-LV471-04-04 Normally Closed				
Item	Part #	Description	Material	Qty
1	21593	Relay Assembly (110 VAC see relays)		1
2	20119	Conduit Adapter	303 ss	1
3	10419	Name Plate	316 ss	1
4	10087	Grommet	Nitrile	1
5*	20495	Switch Cartridge	Sealed	1
6	30316	Body	316 ss	1
7	20152	Float Arm Retainer	316 ss	1
8	20444	Float Arm Assembly	316 ss	1
9	10237	Cotter Pin	18-8 ss	1
10	10250	Float	316 ss	1
11	10324	Drive Screw (not shown)	18-8 ss	2
12	24834	Switch Cartridge SPST 500° F (Optional)	Sealed	1
13	24835	Switch Cartridge SPDT 500°F (Optional)	Sealed	1
14	24836	Switch Cartridge SPDT 400°F (Optional)	Sealed	1

Note: For models below, use the same parts as listed above with the following exceptions:

Model LINC-LV471-03-04 Normally Open				
Item	Part #	Description	Material	Qty
8	20446	Float Arm Assembly	316 ss	1

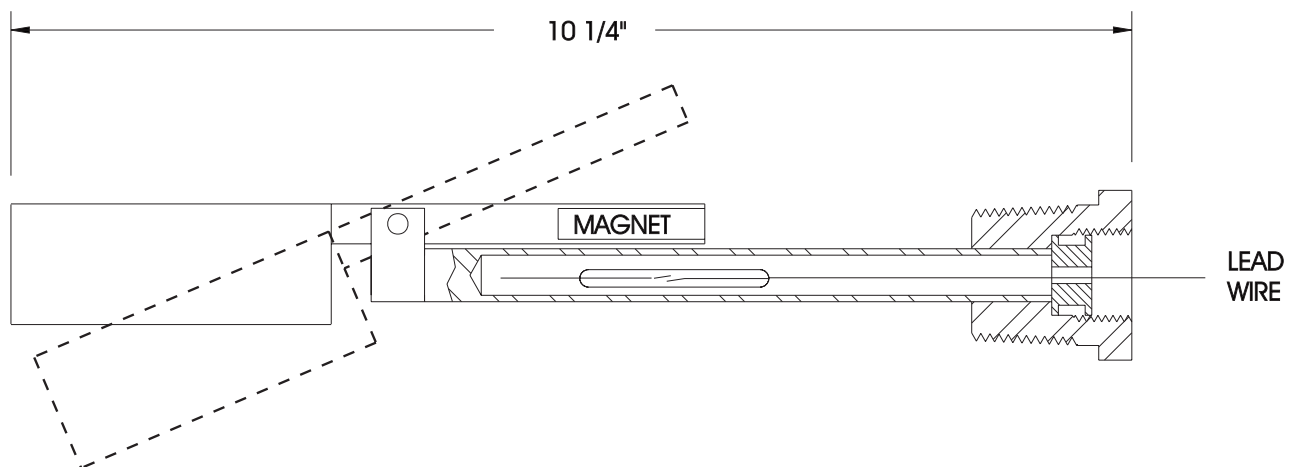
*Recommended spare

ELECTRIC LEVEL CONTROLS

LINC - L971 SERIES: EXTENDED BODY

Product Description:

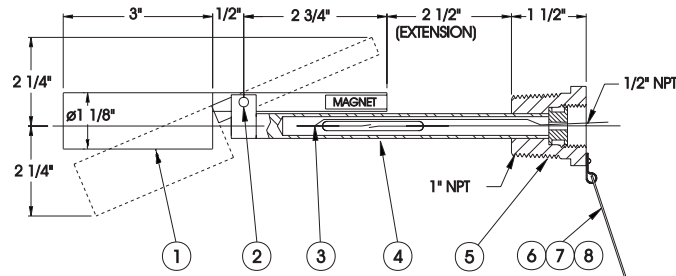
The L971 is used as a high or low level control. The electrical switch closure may be used to sound alarms, operate control equipment or perform any desired electrical function. These standard units are installed through a 1" NPT fitting. The standard float is a solid, high-density polypropylene material and will operate in specific gravities of 0.6 or higher. Due to the length of the float, these controls must have 3" of vertical clearance for the unit to operate. This control is available in a wide variety of designs to meet any specific requirements.



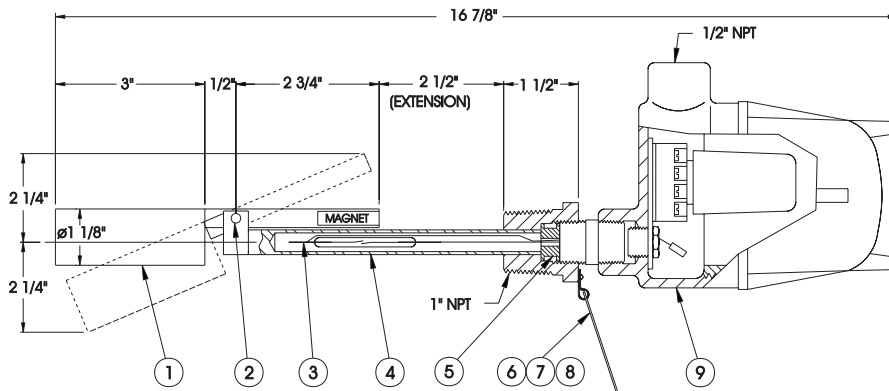
LINC
LEVEL CONTROL

ELECTRIC LEVEL CONTROLS

LINC-L971 SERIES: EXTENDED BODY



Model LINC-L971-01



Model LINC-L971-01-04

Model	L971-01			
Item	Part #	Description	Material	Qty
1	21161	Float Arm Assembly	Polypropylene	1
2	21001	Pivot Pin	316 ss	1
3*	20416	Switch Cartridge	Sealed	1
4	30117	Body Assembly	316 ss	1
5	10087	Grommet	Nitrile	1
6	12972	Name Plate	316 ss	1
7	13060	Drive Screw	18-8 ss	1
8	13061	Clamp	18-8 ss	1
9	24852	Switch Cartridge H.T. 500°F	Sealed	1

*Recommended spare

Model	L971-01-04			
Item	Part #	Description	Material	Qty
1	21161	Float Arm Assembly	Polypropylene	1
2	21001	Pivot Pin	316 ss	1
3*	20416	Switch Cartridge	Sealed	1
4	30117	Body Assembly	316 ss	1
5	10087	Grommet	Nitrile	1
6	10867	Name Plate	316 ss	1
7	13060	Drive Screw	18-8 ss	1
8	13061	Clamp	18-8 ss	1
9	21593	Relay Assembly (110 VAC, see relays)		1
10	24852	Switch Cartridge H.T. 500°F	Sealed	1

*Recommended spare





3101 Pollok Drive
Conroe, Texas 77303
800.455.LINC
P: 936.788.5593
F: 936.788.5720

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