



FLOAT OPERATED LEVEL CONTROLLER **ELECTRONIC LEVEL SWITCH (HORIZONTAL)**

APPLICATIONS:

Senses a specific liquid level and produces electric output.
 High or low level control.
 Electric output can activate alarms, solenoid valves or other electrically switched devices.

FEATURES:

316 SS Wetted Parts
 Sealed Hermetic Reed Switch
 SPDT Reed Switch (50 Vdc, 2 A/120Vac, .83A)
 CSA Certificate #1662451, USA and Canada
 Expl. Proof – Class I, Groups A,B,C,D
 Class II, Groups E,F,G, Class III
 Class I, Zone 1, AExdIIC, ExdIIC
 (Stainless steel float only)
 Additional seal not required

NEMA4X

Available with manual override for testing.
 Minimum Specific Gravity 0.4.

MAXIMUM WORKING PRESSURES:

See Catalog Code

TEMPERATURE RANGE:

Temp: - 20F to 350F - SS6 Float
 Temp: - 20F to 200F - Polypropylene Float

CONNECTIONS:

1 1/2" NPT
 2" NPT

OPERATION:

The FLOAT is counterbalanced by the FLOAT LEVER. As the liquid level increases the FLOAT is lifted. A MAGNET in the FLOAT LEVER moves downward and closer to the REED SWITCH which is located in the enclosure in the BODY. This closes the REED SWITCH. As the liquid level decreases the FLOAT moves downward, moving the MAGNET away from the REED SWITCH, causing it to open.

The optional MANUAL OVER RIDE allows the operator to manually activate the FLOAT LEVER to test the switch and the devices it controls.

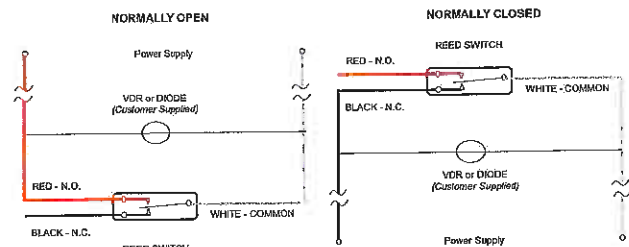
WIRING INSTRUCTIONS:

Do not exceed the amperage and voltage for the switch (i.e. 2 amperes at 50 VDC or 0.83 amperes at 120 VAC). The switch requires a minimum of 3 watts switching power. Switch contacts may experience damage in applications using relays, motors, etc. where a power surge or voltage spike may occur during relay engagement or motor startups.

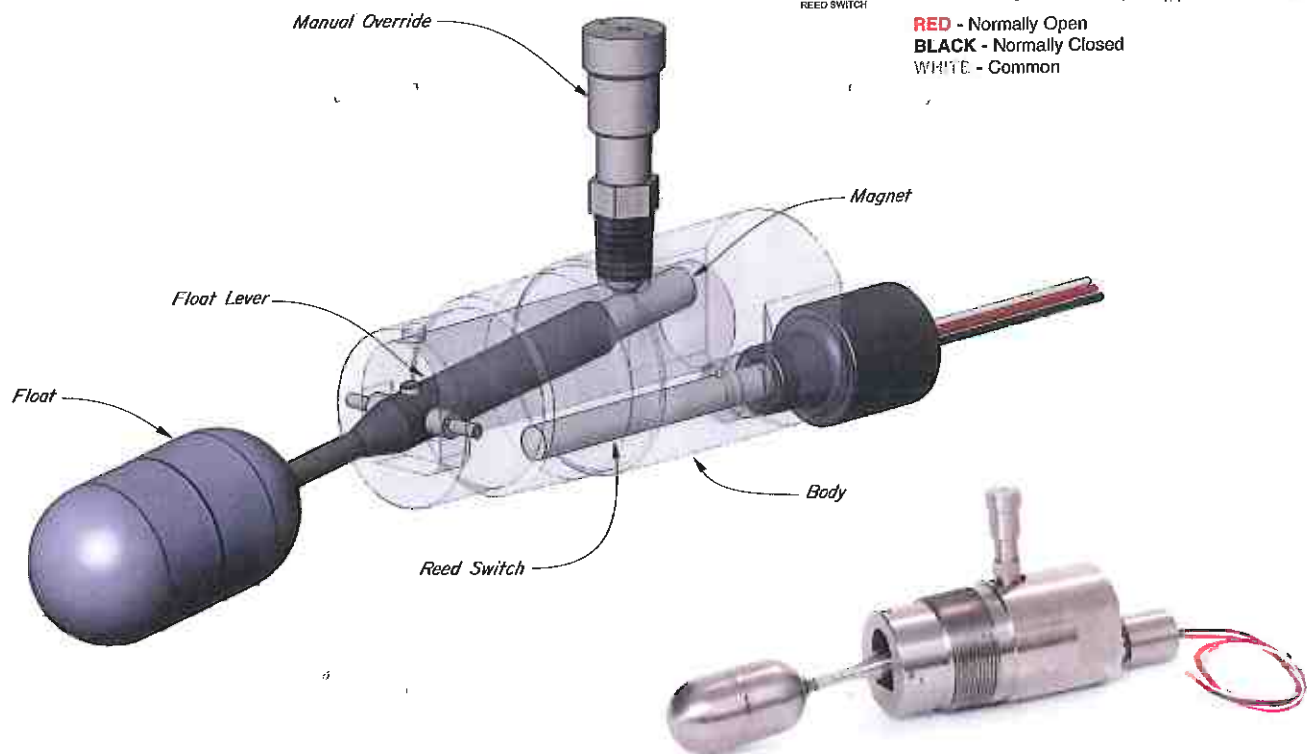
For these conditions a shunt path for over-voltage should be installed.

• For DC applications:
 use an (1N4001) or similar diode wired in parallel as shown.

• For AC applications:
 use a 110 VAC Varistor (Digi-Key BC1408-ND) or similar wired in parallel as shown.

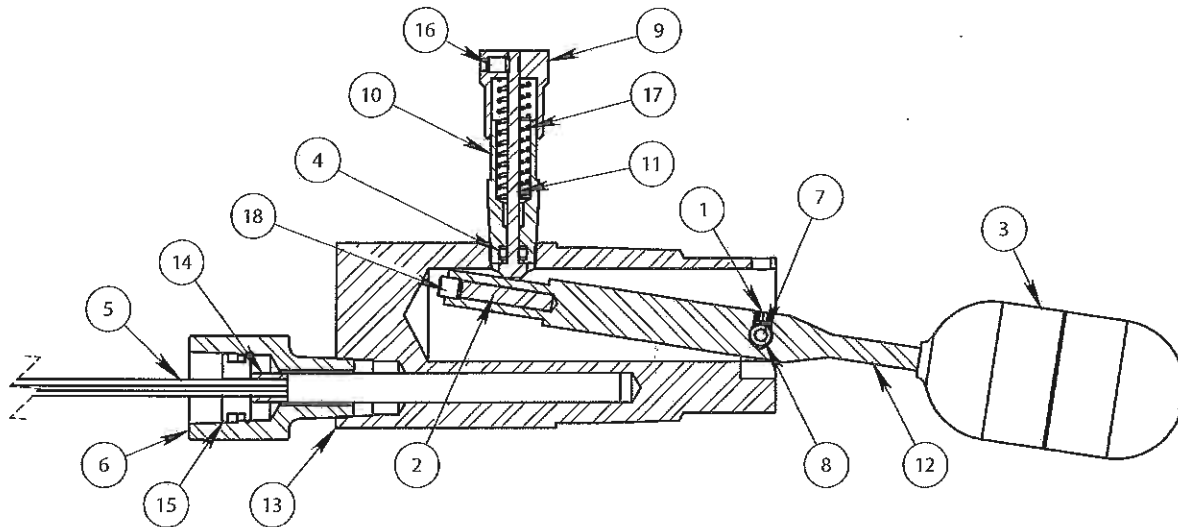


RED - Normally Open
BLACK - Normally Closed
WHITE - Common



FLOAT OPERATED LEVEL CONTROLLER

ELEC. LEVEL SWITCH (HORIZ.) WITH MANUAL OVERRIDE STEEL



ITEM #	PART #	COMMON PARTS	QTY.
1	2446	SET SCREW	1
2	3206	MAGNET	1
4	5410V	O-RING VITON	1
5	5413	SWITCH CARTRIDGE	1
6	5414	CONDUIT ADAPTOR	1
8	5416	LEVER SPACER	2
9	5417	PUSH CAP	1
10	5418	OVERRIDE FITTING	1
11	5419	STEM	1
12	5420	FLOAT LEVER	1
14	5423	GROMMET INSERT	1
15	5424	GROMMET	1
16	5426	SET SCREW	1
17	5429	SPRING	1
18	5593	SET SCREW	1

ITEM #	PART #	FLOATS	QTY.
3	3216	316 SS	1
3	5431	POLY	1

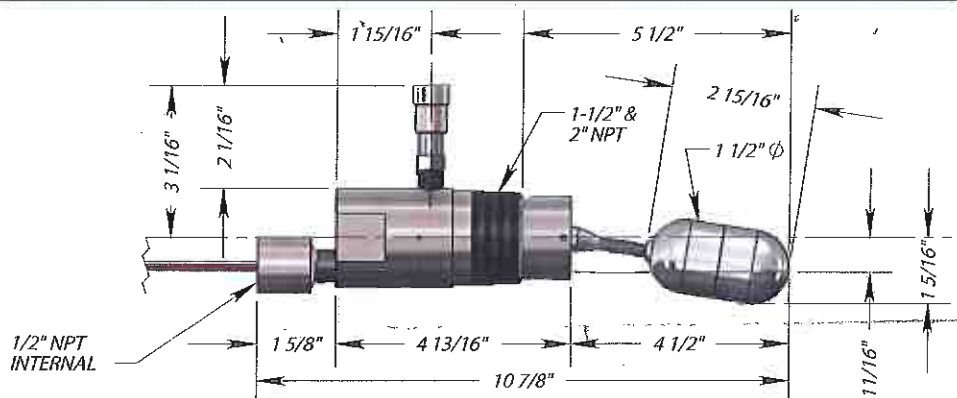
ITEM #	PART #	BODIES	QTY.
13	5421	1 1/2 IN NPT M.O.	1
13	5433	2 IN NPT M.O.	1

ITEM #	PART #	LEVER PINS	QTY.
7	5415	LEVER PIN 1 1/2 IN BODY	1
7	5432	LEVER PIN 2 IN BODY	1

PART #	EXTERNAL FLOAT CAGES	QTY.
5522	1 1/2 IN	1
5523	2 IN	1

PART #	ACCESSORIES	QTY.
5418A	M/O ASSEMBLY	1
5587A	PULL ASSEMBLY w/20' CABLE	1
5594	ANNULUS PLUG	1

DIMENSIONS



LEVEL CONTROLLER AVAILABLE

NOTES

CAT. NO.	BODY TYPE	PILOT	MAX W.P.
CEB2	1 1/2" NPT	1200 SLS SS6 FLOAT M/O	2000
CEB2PP	1 1/2" NPT	1200 POLY FLOAT M/O	2000
CEB3	1 1/2" NPT	1200 SLS SS6 FLOAT M/O W/CHAIN	2000
CEB3PP	1 1/2" NPT	1200 POLY FLOAT M/O W/CHAIN	2000
CEC2	2" NPT	2200 SLS SS6 FLOAT M/O	2000
CEC2PP	2" NPT	2200 POLY FLOAT M/O	2000
CEC3	2" NPT	2200 SLS SS6 FLOAT M/O W/CHAIN	2000
CEC3PP	2" NPT	2200 POLY FLOAT M/O W/CHAIN	2000