Advantages/Benefits

- **Available in 3 configurations, probe only, compact design and probe with rail mount controller**
- **Baffel body dampens out process turbulence to eliminate unwanted signal chatter**
- **All plastic construction with polypropylene materials**
- **Probe rated IP68 through the wall or IP67 fully submersed**
- **Polypropylene enclosure rated IP65 with PG13 cable connector**
- **Available in both AC and DC switch power configurations**
- **Select reed switch, FET switch, 6 amp or 12 amp relay outputs**
- **Power fail-safe relay control**

Design/Function

The reed switch output provides an AC or DC level interface with pumps, valves, PLCs, relays and alarms.

The FET switch output provides a solid state, DC level interface with PLCs, relays and alarms.

The 6 amp, relay output provides an isolated level interface with pumps, valves, PLCs, relays and alarms.

The 12 amp, relay output provides an isolated level interface with large valves and pumps, including PLCs, relays and alarms.

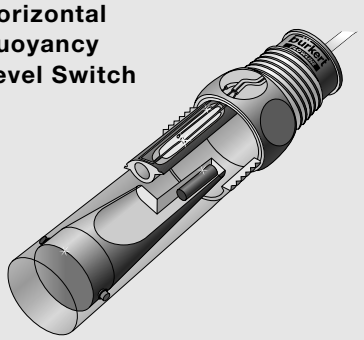
For remote 12 amp relay control, select from Burkert's family of SL31 rail mount controllers.

Applications

- Clean liquids compatible with PP and viton / EPDM
- Corrosive liquids compatible with PP and viton / EPDM
- Environments with extreme levels of electromagnetic or radio frequency interference (reed switch output only)
- Leak detection through the wall of secondary containment vessels

bürkert
Easy Fluid Control Systems

Horizontal Buoyancy Level Switch



Principle of operation

A magnet is located in the end of the float's arm. When the probe is dry, the arm rests beneath the point where the reed or hall effect switch is installed, such that the magnetic field cannot effect the switches operation.
As liquid enters into the sensing chamber, the float becomes buoyant, causing the magnet to elevate and the switch changes state.

Baffle body design

The baffle body eliminates the switch chatter normally associated with traditional float devices. All liquid entering the switch is dampened prior to reaching the float cavity.

Modular switch design

The horizontal buoyancy switch is available in a wide variety of configurations to meet your specific application requirements.The basic buoyancy switch is offered with a reed or FET switch output and is designed for installation through the side wall of the tank. Either switch configuration may be combined with an IP65 junction box or compact relay controller for integral termination and/or expanded control features.For remote relay control, select from Brkert's family of SL31 rail mount controllers.

Unsuitable applications

Not suitable for: 1) liquids with a specific gravity less than .8 (SG); or 2) applications with ultrapure, dirty, coating or scaling liquids.

Switch with Reed Output

- All plastic construction with PP materials
- Selectable normally open or normally closed states
- Reed switch output for valve, PLC, relay and alarm control interface
- Designed for installation through the side tank wall
- Probe rated IP68 through the wall or IP67 probe and cable when fully submersed
- Magnetically actuated reed switch with shielded probe and cable

Switch with FET Output

- All plastic construction with PP materials
- Selectable normally open or normally closed states
- FET switch output for PLC, relay and LED alarm control interface
- Designed for installation through the side tank wall
- Probe rated IP68 through the wall or IP67 probe and cable when fully submersed
- Hall effect actuated, FET switch with shielded probe and cable

Switch and Junction Box with Reed or FET Output

- All plastic construction with PP materials
- Selectable normally open or normally closed states
- Available in both reed switch or hall effect actuated, FET switch outputs
- Designed for installation through the side tank wall
- Shielded probe body and cable
- PP enclosure rated IP65 with rotational base, terminal strip and PG13 cable connector

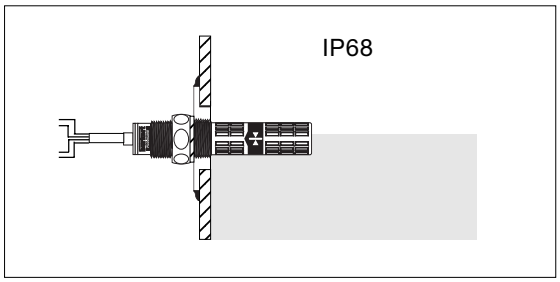
Switch and 14 - 36 VDC Controller with 6 Amp Relay Output

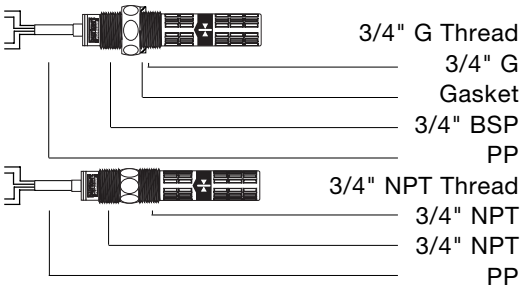
- All plastic construction with PP materials
- Selectable normally open or normally closed states
- 6 amp, SPDT relay output for isolated PLC, pump and valve control interface
- LED lights provide liquid, power and relay status
- 0 - 60 second time delay dampens process turbulence
- PP enclosure rated IP65 with rotational base and PG13 cable connector

Switch and 115 / 230 VAC Controller with 12 Amp Relay Output

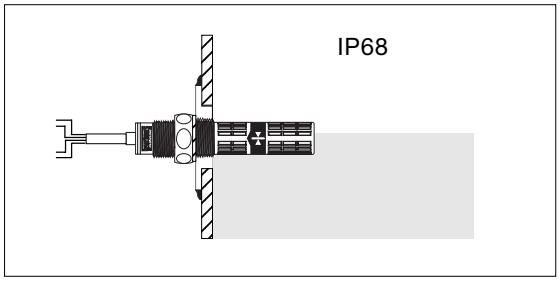
- All plastic construction with PP materials
- Selectable normally open or normally closed states
- 12 amp, SPDT relay output for isolated PLC, pump and valve control interface
- LED lights provide liquid, power and relay status
- 0 - 60 second time delay dampens process turbulence
- PP enclosure rated IP65 with rotational base and PG13 cable connector

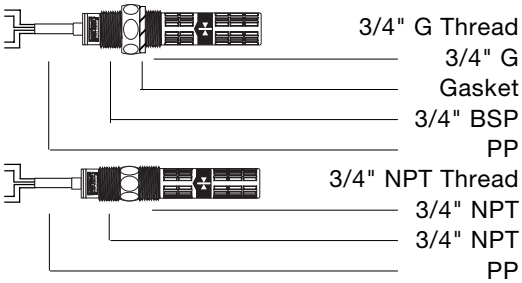
Switch with Reed Output



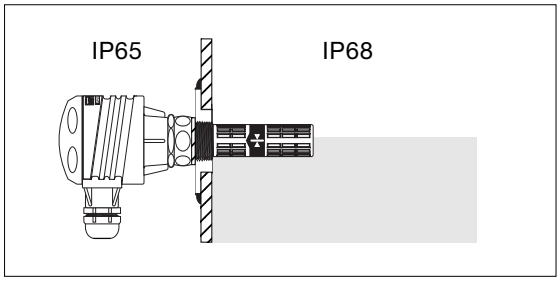


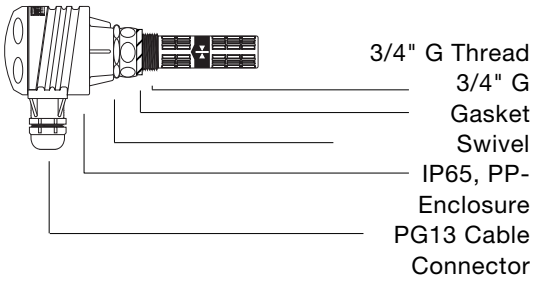
Switch with FET Output



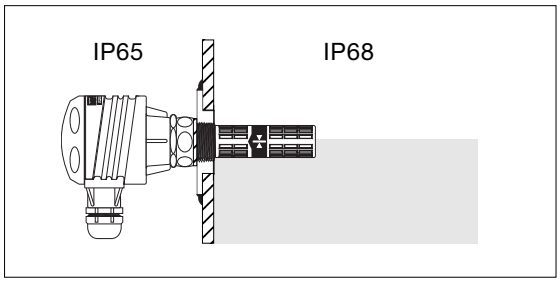


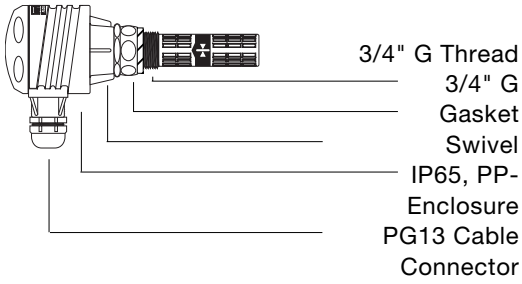
Switch and Junction Box with Reed or FET Output



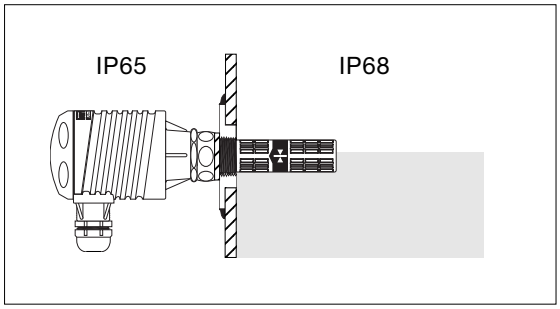


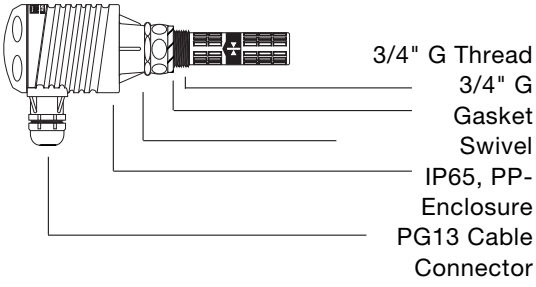
Switch and 14 - 36 VDC Controller with 6 Amp Relay Output





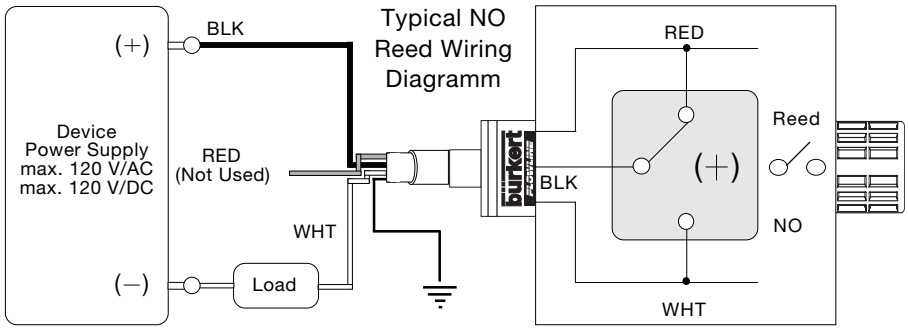
Switch and 115 / 250 VAC Controller with 12 Amp Relay Output





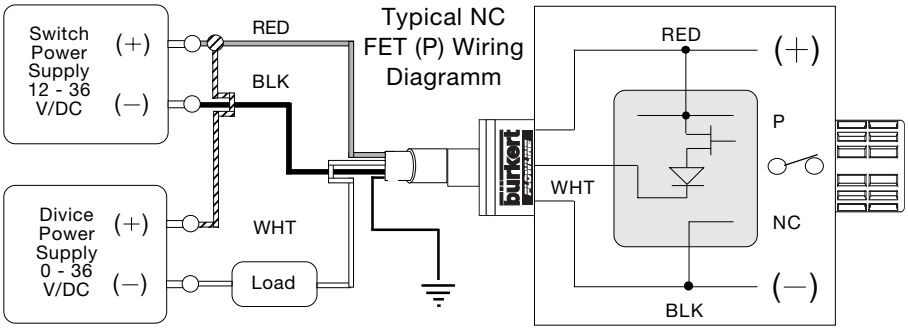
Switch with Reed Output

Voltage input	120 VAC, 20 VA max 120 VDC, 20 VA max
Switch type	SPDT, dry contact closure
Switch mode	Selectable, NO or NC based on wires connected



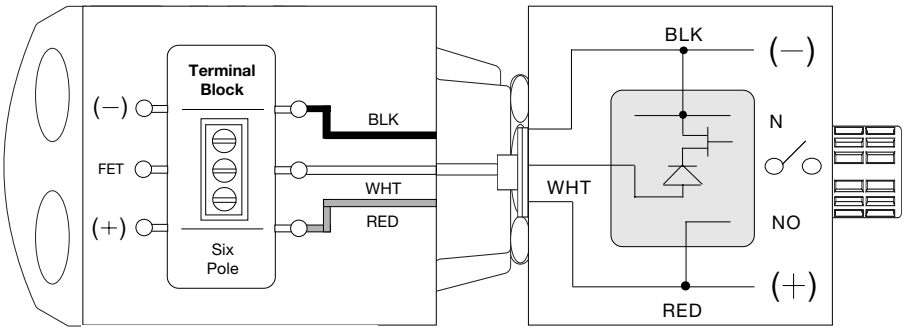
Switch with FET Output

Voltage input	12 - 36 VDC, 0.1 amp max
Current Consumption	Dry: 5 mA (+/- 1 mA) Wet: 19 mA (+/- 1 mA)
Switch type	P channel or N channel
Switch mode	Selectable, NO or NC based on supply polarity



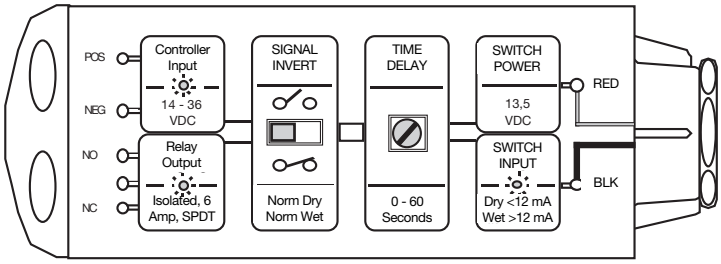
Switch and Junction Box with Reed or FET Output

Voltage input	12 - 36 VDC, 0.1 amp max
Current Consumption	Dry: 5 mA (+/- 1 mA) Wet: 19 mA (+/- 1 mA)
Switch type	P channel or N channel
Switch mode	Selectable, NO or NC based on supply polarity



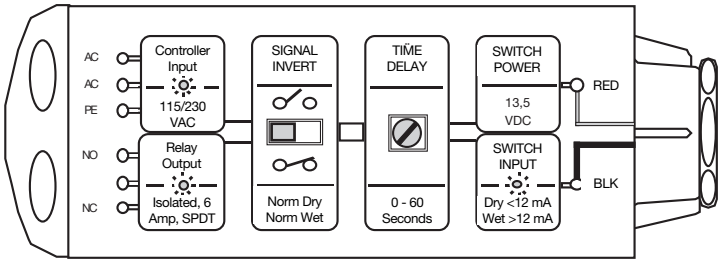
Switch and 14 - 36 VDC Controller with 6 Amp Relay Output

Relay type	Isolated, 6 amp SPDT
Relay mode	Selectable, NO or NC
Time delay	Adjustable 0 - 60 sec
Display	LED lights for liquid, power and relay status



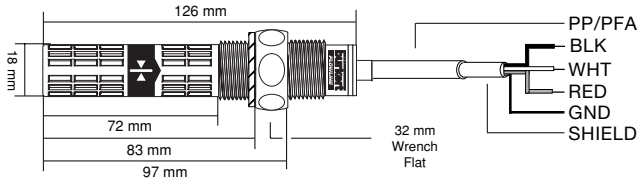
Switch and 115 / 230 VAC Controller with 12 Amp Relay Output

Relay type	Isolated, 6 amp SPDT
Relay mode	Selectable, NO or NC
Time delay	Adjustable 0 - 60 sec
Display	LED lights for liquid, power and relay status

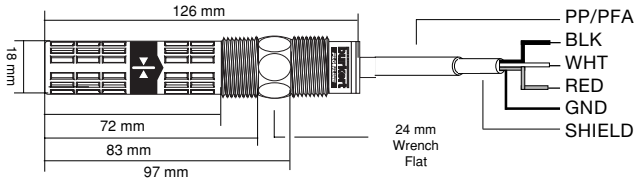


Switch with Reed Output

3/4" G Mounting Threads

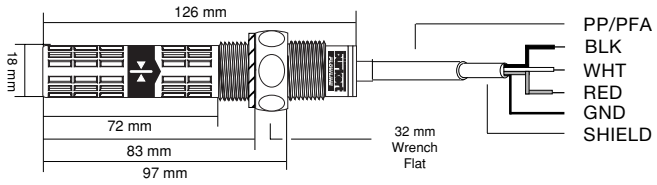


3/4" NPT Mounting Threads

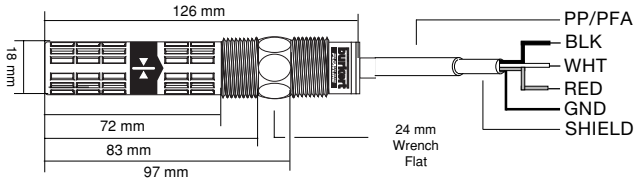


Switch with FET Output

3/4" G Mounting Threads

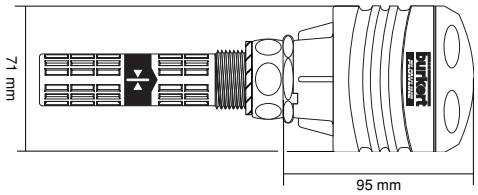


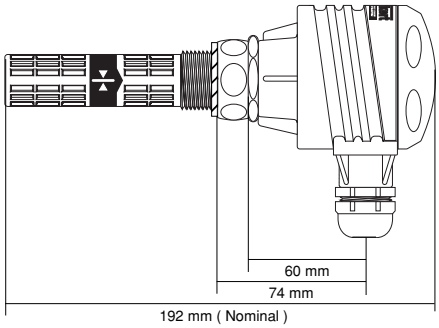
3/4" NPT Mounting Threads



Switch and Junction Box with Reed or FET Output

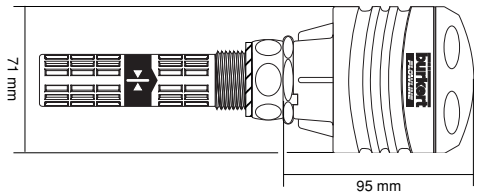
3/4" G Mounting Threads

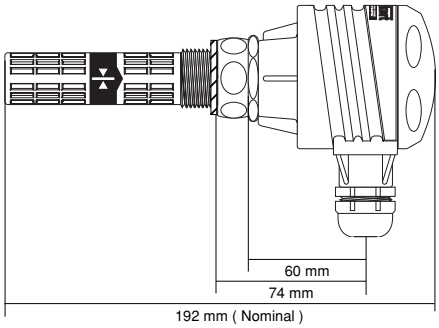




Switch and 14 - 36 VDC Controller with 6 Amp Relay Output

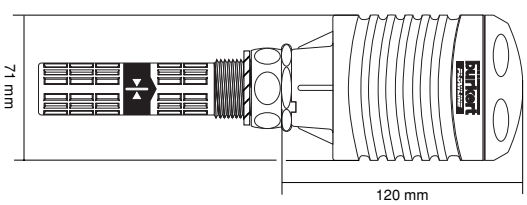
3/4" G Mounting Threads

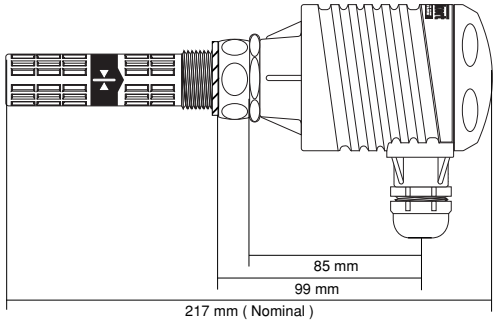




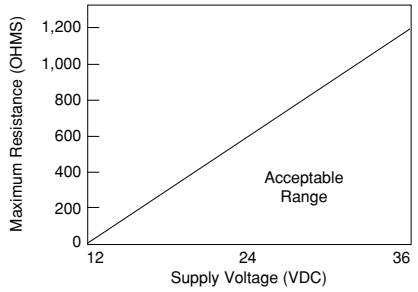
Switch and 115 / 230 VAC Controller with 12 Amp Relay Output

3/4" G Mounting Threads

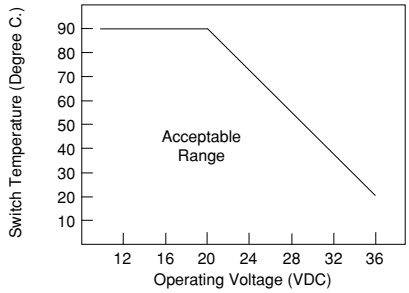




Electrical Loading Limits



Max Switch Temperature



Buoyancy Switch Technical Data

Accuracy	+ / - 2 mm in water
Repeatability	+ / - 1 mm in water
Specific gravity	.8 - 1.2
Reed voltage input	120 VAC / 120 VDC, 20 VA max
FET voltage input	12 - 36 VDC, 0.1 amp maximum
FET consumption	Dry: 5 mA (+ / - 1 mA) Wet: 19 mA (+ / - 1 mA)
FET switch voltage	0 - 36 VDC, 0.1 amp maximum
FET switch current	100 mA maximum (independent of supply)
Switch mode	Selectable, NO or NC states
Wetted materials	PP probe and cable, viton or EPDM gasket
Pressure rating	PP probe: 1 bar @ 25 degrees C.
Temperature rating	90 degrees C. maximum
Mounting threads	Available with 3/4" G or 3/4" NPT
Extreme orientation	+ / - 20 degrees from horizontal
Probe rating	IP68 through-wall / IP67 submersed
Cable type	3 wire, 22 gauge with ground, foil shield and PP sealed jacket
Cable length	3.5 meters

Relay Controller Technical Data

Voltage input	AR type: 115 / 230 VAC, 50 - 60 Hz., DR type: 14 - 36 VDC
Current consumption	.25 amp maximum
Switch supply voltage	13.5 VDC nominal
Relay type	Isolated, SPDT (form C)
Switching voltage	AR type: 380 VAC / 150 VDC, DR type: 240 VAC / 120 VDC
Switching current	AR type: 12 amp, DR type: 6 amp maximum non-inductive loads
Contact material	Silver cadmium oxide
Contact resistance	30 milli-ohms initially (at maximum current and voltage ratings)
Relay state	Switch selectable, normally open or normally closed states
Relay time delay	Adjustable from 0.15 - 60 seconds
Temperature rating	70 degrees C. maximum
Enclosure rating	IP65 splash proof and chemical resistant design
Enclosure material	PP flame retardant (U.L. 94VO)
Cable connection	PG13 liquid-tight cable connector
Mounting threads	3/4" BSP or 3/4" NPT

Ordering Chart (Other Versions on Request)

Supply Voltage	Output	Mounting Threads	Probe Materials	Specification	Item No.
120 V/AC	REED	G 3/4“	PP	SL26-SRME	417291 Q[2]
120 V/AC	REED	G 3/4“	PP	SL26-SRMV	417196 H
12 - 36 V/DC	FET (P)	G 3/4“	PP	SL26-SPME	417292 R[2]
12 - 36 V/DC	FET (P)	G 3/4“	PP	SL26-SPMV	417293 J
12 - 36 V/DC	FET (N)	G 3/4“	PP	SL26-SNME	417294 K[2]
12 - 36 V/DC	FET (N)	G 3/4“	PP	SL26-SNMV	417295 L
230 / 115 V/AC	12 AMP	G 3/4“	PP	SL26-ARME	417296 M[2]
230 / 115 V/AC	12 AMP	G 3/4“	PP	SL26-ARMV	417297 N
14 - 36 V/DC	6 AMP	G 3/4“	PP	SL26-DRME	417298 X[2]
14 - 36 V/DC	6 AMP	G 3/4“	PP	SL26-DRMV	417299 Y
120 V/AC	REED	G 3/4“	PP	SL26-JRME	417300 D[1)2)]
120 V/AC	REED	G 3/4“	PP	SL26-JRMV	417195 G[1)]
12 - 36 V/DC	FET (P)	G 3/4“	PP	SL26-JPME	417301 S[1)2)]
12 - 36 V/DC	FET (P)	G 3/4“	PP	SL26-JPMV	417302 T[1)]
12 - 36 V/DC	FET (N)	G 3/4“	PP	SL26-JNME	417303 U[1)2)]
12 - 36 V/DC	FET (N)	G 3/4“	PP	SL26-JNMV	417304 V[1)]

[1)] with junction box, [2)] with EPDM gasket (instead of Viton).