

# SC10 Starter Design for Float Switches

This shows how to use float switches with the SC10.

## Benefits for the Operators:

Using the SC10's float switch support allows:

- Mixing float switches and Snore control, for example using Float start (to prevent overflows) with snore stop.
- No need for a Float Mode selector in the Starter.

**Just connect the Floats Switches when needed. No need to Change Modes.**

## Benefits for the Switchboard Builder – Save Money \$\$\$

By using the float switch support of the SC10 you can:

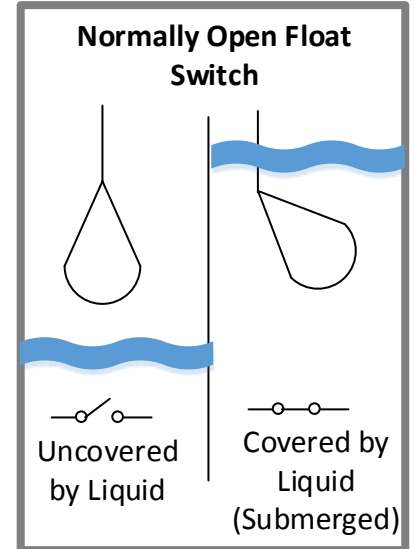
**Save money on extra relays and wiring to latch the floats and for the selector switch to select the Float vs Snore mode.**

## 1. SC10 Using N/O Float Switches

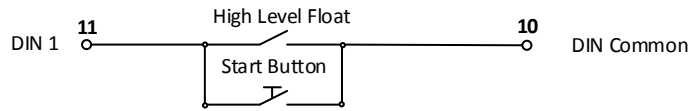
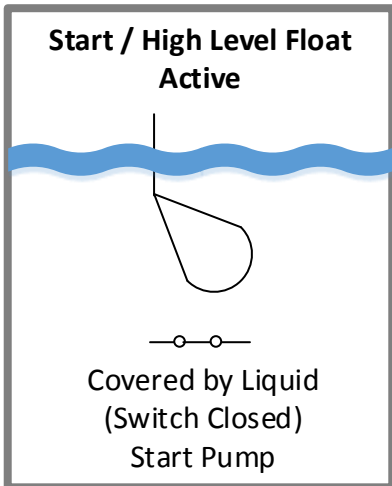
There are two main options in designing the Pump Starter:

1. For two N/O (Normally Open) Float switches.
2. For two Changeover Float Switches

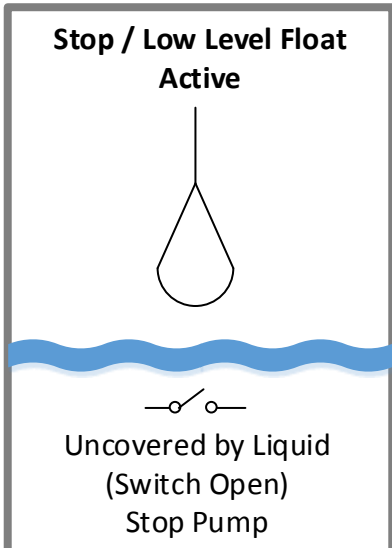
Option 2, using changeover floats, alleviates the need to bridge the Low Float terminals on the starter when the floats are not in use.



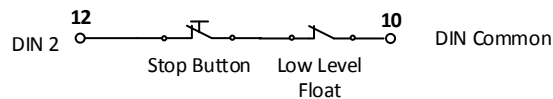
### High Level Float & Start Button



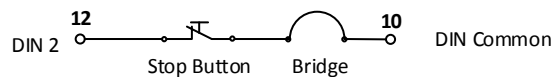
### Low Level Float & Stop Button



#### When Float is Connected



#### When Float is NOT Connected



Bridge the Low Float when not in Use.

#### DIP Switch 10 = On

Stop / Low Float Invert		
SW	10	Setting
	Off	Closed = Low
	On	Open = Low

#### DIP Switch 10 Default is Off

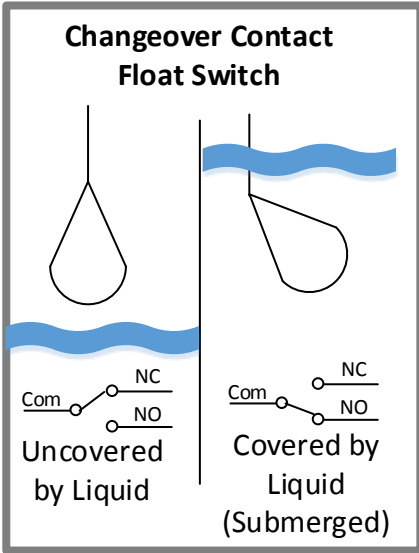
This is so that when no float switches are used the pump is free to run.

This allows Snore Control by default.

If this were On, then a Low Float / Stop condition would be present when nothing is connected.

Set SW 10 to On

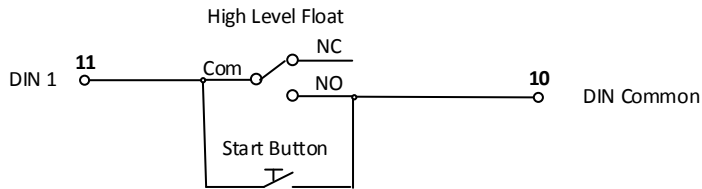
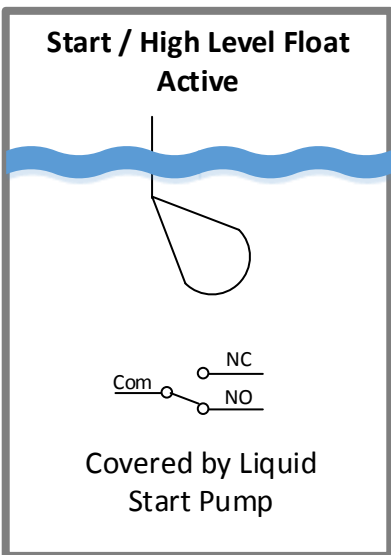
# 2. SC10 Using Changeover Float Switches



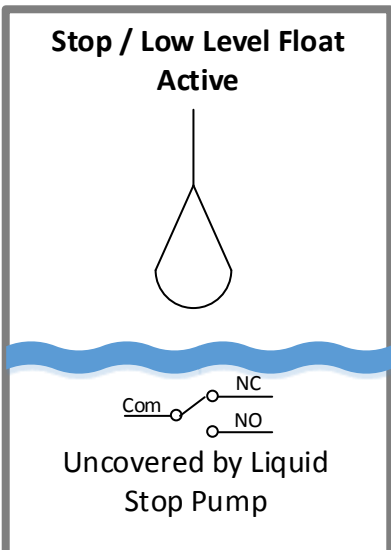
Some floats have changeover contacts. These could be wired in the same way as for the N/O floats. However, by designing the starter as shown here, you alleviate the need to use a bridge when no low float is connected. The person installing the float must then use the N/C contact on the Low Float.

The popular Flygt ENM-10 floats are an example of floats with changeover contacts.

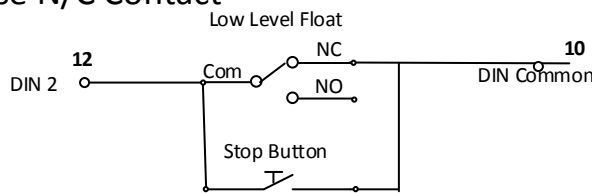
## High Level Float & Start Button



## Low Level Float & Stop Button



Use N/C Contact



No Need to bridge the Low Float when not in Use.

**DIP Switch 10 Default is Off**

This is so that when no float switches are used the pump is free to run.

This allows Snore Control by default.

DIP Switch 10 = Off

Stop / Low Float Invert		
SW	10	Setting
Off		Closed = Low
On		Open = Low

**Set SW 10 to Off**