Large Multipoint Level Switches

for Liquids

- Multiple Material Combinations
- Maximum Pressure: 400 PSIG (SS)
- Stem Lengths up to 96"
- Up to Five Switches Possible
- User-Specified Switch Locations

Description

KOBOLD NCG multipoint float level switches are designed to meet a wide range of applications. They use a hermetically sealed reed contact actuated by a magnet in the float. As the float rises and falls, the magnetic field causes the switch inside the stem to open or close. These custom-manufactured units are available in lengths up to 96 inches with up to five control points in user specified locations.

NCG: Large Multipoint Level Switches

- Special Length Units, up to 96"
- Up to Five User-Defined Control Points
- Float Choices of NBR, SS, or PP
- Stem Choices of 316 SS or PVC

Max. Stem Length:	96"
Stem / Fitting Material:	316 SS, PVC
Electrical Details:	SPST, 100 VA
	SPDT, 20 VA (Option)
Float Material:	NBR, SS, PP
Max. Pressure	
NBR:	150 PSIG
Stainless Steel:	400 PSIG
PP:	100 PSIG
Operating Temperature	
NBR in Oil:	-40...230 °F
NBR in Water:	-40...180 °F
Stainless Steel:	-40...300 °F
PP:	-40...140 °F
Minimum S.G. of Media	
Type 1 Float:	0.65
Type 2 and 3 Float:	0.55
Type 6 Float:	0.85

Fitting Options: NCG

Type 1	Type 2	Type 3	Type 4	Type 5
1/2" NPT	1-1/4" NPT	2" NPT	3" ANSI Flange	1/2" Tubing

Float Options: NCG

Type 1	Type 2
2.00" / 2.10"	1.75" / 1.19"
316 SS	NBR
Type 3	**Type 6**
1.88" / 1.88"	1.93" / 1.93"
NBR	PP

NCG Order Details: (Example: **NCG-3231NT**)

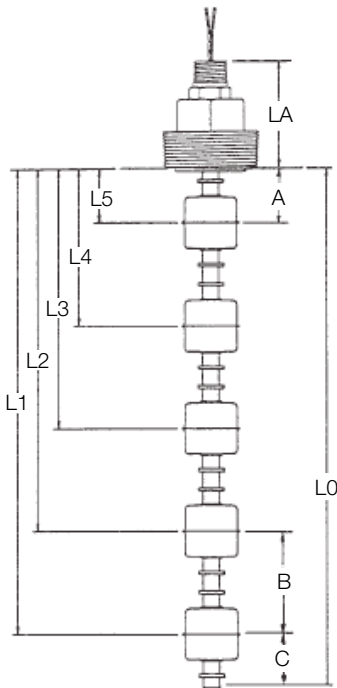| Model	Fitting Type	Fitting / Stem Material	Number of Switch Levels	Float Type and Material	Options
NCG-	..1.. = ½" NPT, Male ..2.. = 1-1/4" NPT with ½" NPT Conduit ..3.. = 2" NPT with ½" NPT Conduit ..4.. = 3" ANSI Flange with ½" NPT Conduit (SS and PVC Only) ..5.. = ½" Tube End	..2.. = SS / SS ..3.. = PVC / PVC (Fitting Types 1, 3, 4, & 5 Only)	..1.. = 1 Switch Level ..2.. = 2 Switch Levels ..3.. = 3 Switch Levels ..4.. = 4 Switch Levels ..5.. = 5 Switch Levels	..1 = Stainless Steel (Fitting Types 1, 3, 4, and 5) ..2 = Small NBR ..3 = Large NBR (Fitting Types 1, 3, 4, and 5) ..6 = PP (For PVC Stem Only)	..A = Adjustable Fitting (Fitting Types 2, 3, and 4) (Not with PVC) ..B = Weighted NBR Floats For Interface Detection (Specify Desired Float S.G.) ..D4 = 20 VA SPDT Reed Switch ..N = Alum. Junction Box (NEMA 4) (Fitting Types 2, 3, and 4) ..NT = Alum. Junction Box with Terminal Strip (NEMA 4) (Fitting Types 2, 3, and 4)

NCG Order Details: Other Considerations

Please Provide:
- Full Part Number Using the 'Order Details' Table
- Completed 'Actuation Point Locations and Logic' Table Below
- Completed 'Application Information' Table Below

Please Note:
- Switch Operation Assumes Float is Dry (Empty Tank)
- Standard Lead Wires are 24", 22 AWG

Switch Geometry

A = 1-1/2" minimum distance to highest level

B = 3" minimum distance between levels

C = 2" minimum distance from the end of the unit to the lowest level

*Specify distance "LA" only when choosing adjustable fitting option "A". (Default "LA" distance is 4-3/8". Any reduction in "L0" distance is limited by the location of the highest switchpoint and/or any external clearances above the conduit fitting.)

Application Information		
Process Liquid:		
Name: _____ S.G.:_____ Visc:_____		
Temperature:		
Min: _____ Operating: _____ Max: _____		
Pressure: Operating: _____ Max: _____		

Actuation Point Location and Logic		
Distance (Minimum of 3" Between Levels)	**SPST Switch Operation**	
L0:_____	L0 = L1 + 2" for all float types	
L1:_____	☐ N/O Dry	☐ N/C Dry
L2:_____	☐ N/O Dry	☐ N/C Dry
L3:_____	☐ N/O Dry	☐ N/C Dry
L4:_____	☐ N/O Dry	☐ N/C Dry
L5:_____	☐ N/O Dry	☐ N/C Dry
LA*:_____		