

## Large Multipoint Level Switches for Liquids



measuring  
•  
monitoring  
•  
analyzing

NCG



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



Order from: **C A Briggs Company**  
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Phone: 267-673-8117 - Fax: 267-673-8118  
[Sales@cabriggs.com](mailto:Sales@cabriggs.com) - [www.cabriggs.com](http://www.cabriggs.com)

KOBOLD Instruments, Inc.  
1801 Parkway View Drive  
Pittsburgh, PA 15205



**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

<b>Max. Stem Length:</b>	96"
<b>Stem / Fitting Material:</b>	316 SS, PVC
<b>Electrical Details:</b>	SPST, 100 VA SPDT, 20 VA (Option)
<b>Float Material:</b>	NBR, SS, PP
<b>Max. Pressure</b>	
<b>NBR:</b>	150 PSIG
<b>Stainless Steel:</b>	400 PSIG
<b>PP:</b>	100 PSIG
<b>Operating Temperature</b>	
<b>NBR in Oil:</b>	-40...230 °F
<b>NBR in Water:</b>	-40...180 °F
<b>Stainless Steel:</b>	-40...300 °F
<b>PP:</b>	-40...140 °F
<b>Minimum S.G. of Media</b>	
<b>Type 1 Float:</b>	0.65
<b>Type 2 and 3 Float:</b>	0.55
<b>Type 6 Float:</b>	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
316 SS	NBR
Type 3	Type 6
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.. = 1/2" NPT, Male	..2.. = SS / SS	..1.. = 1 Switch Level	..1 = Stainless Steel (Fitting Types 1, 3, 4, and 5)	..A = Adjustable Fitting (Fitting Types 2, 3, and 4) (Not with PVC)
	..2.. = 1-1/4" NPT with 1/2" NPT Conduit		..2.. = 2 Switch Levels	..2 = Small NBR	..B = Weighted NBR Floats For Interface Detection (Specify Desired Float S.G.)
	..3.. = 2" NPT with 1/2" NPT Conduit		..3.. = 3 Switch Levels	..3 = Large NBR (Fitting Types 1, 3, 4, and 5)	..D4 = 20 VA SPDT Reed Switch
	..4.. = 3" ANSI Flange with 1/2" NPT Conduit (SS and PVC Only)		..4.. = 4 Switch Levels	..6 = PP (For PVC Stem Only)	..N = Alum. Junction Box (NEMA 4) (Fitting Types 2, 3, and 4)
	..5.. = 1/2" Tube End		..5.. = 5 Switch Levels		..NT = Alum. Junction Box with Terminal Strip (NEMA 4) (Fitting Types 2, 3, and 4)

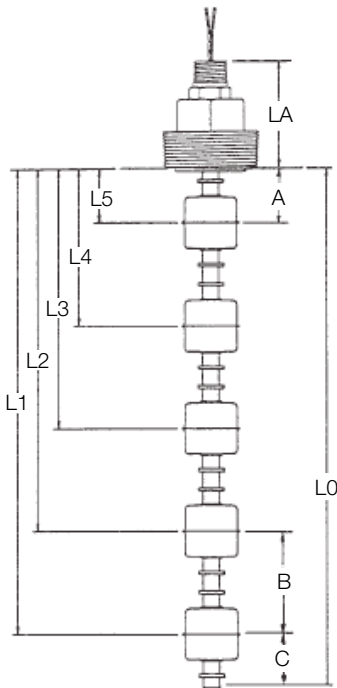
**NCG Order Details: Other Considerations**

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	
<b>Process Liquid:</b>	
Name: _____	S.G.: _____ Visc: _____
<b>Temperature:</b>	
Min: _____	Operating: _____ Max: _____
<b>Pressure:</b>	
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: _____	<input type="checkbox"/> N/O Dry	<input type="checkbox"/> N/C Dry
L2: _____	<input type="checkbox"/> N/O Dry	<input type="checkbox"/> N/C Dry
L3: _____	<input type="checkbox"/> N/O Dry	<input type="checkbox"/> N/C Dry
L4: _____	<input type="checkbox"/> N/O Dry	<input type="checkbox"/> N/C Dry
L5: _____	<input type="checkbox"/> N/O Dry	<input type="checkbox"/> N/C Dry
LA*: _____	<input type="checkbox"/> N/O Dry	<input type="checkbox"/> N/C Dry