Large Multipoint Level Switches

for Liquids



measuring
•
monitoring
•
analyzing

NCG



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



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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 PVC
- Stem Choices of Brass, 316 SS, or PVC

Max. Stem Length: 96"

Stem / Fitting Material: Brass, 316 SS, PVC **Electrical Details:** SPST, 100 VA

SPDT, 20 VA (Option)

Float Material: NBR, SS, PVC

Max. Pressure

NBR: 150 PSIG Stainless Steel: 400 PSIG PVC: 100 PSIG

Operating Temperature

 NBR in Oil:
 -40...230 °F

 NBR in Water:
 -40...180 °F

 Stainless Steel:
 -40...300 °F

 PVC:
 -40...140 °F

Minimum S.G. of Media

 Type 1 Float:
 0.65

 Type 2 and 3 Float:
 0.55

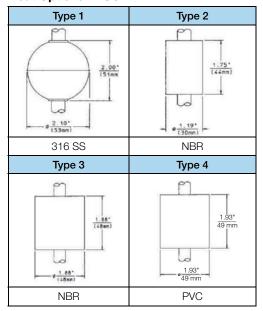
 Type 4 Float:
 0.85



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



Float Options: NCG



Large Multipoint Level Switches Model NCG



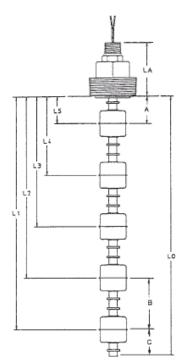
NCG Order Details: (Example: NCG-2132A)

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	1 = Brass / Brass2 = SS / SS3 = 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) 4 = PVC (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



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.)

Please Note:

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

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*:				