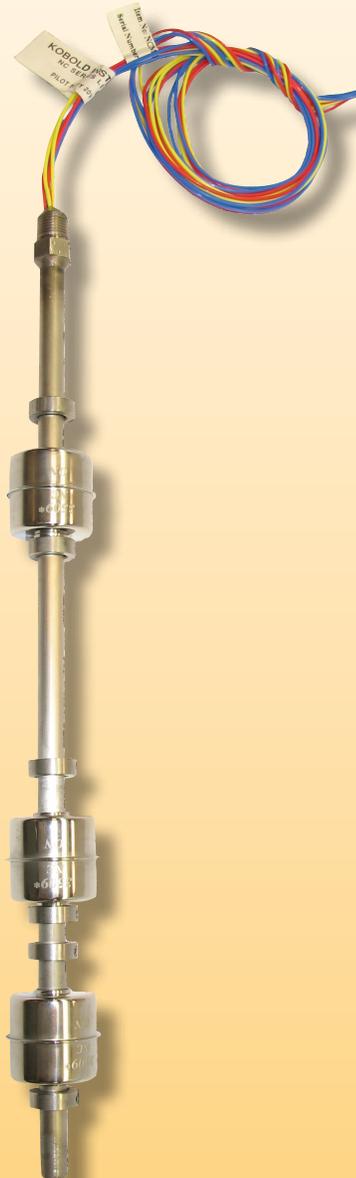


Miniature Multipoint Level Switches for Liquids



measuring
•
monitoring
•
analyzing

NCM



- Wide Variety of Material Combinations
- Maximum Pressure: 400 PSIG (SS)
- Stem Lengths up to 48"
- Up to Four Switches Possible
- User-Specified Switch Locations



KOBOLD companies worldwide:

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Description

KOBOLD NCM 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 48 inches with up to four control points in user specified locations.



Technical Specifications

Max. Stem Length: 48"
Stem / Fitting Material: Brass or 316 SS
Float Stop Materials
Brass Units: Brass
SS Units: 316 SS
Electrical Details: SPST, 100 VA
Lead Wires: 22 AWG, 24" for 1 or 2 Switch Points
 24 AWG, 24" for 3 Switch Points
 26 AWG, 24" for 4 Switch Points
Float Material: NBR, SS, or Polypropylene

Max. Pressure
NBR, Polypropylene: 150 PSIG
Stainless Steel: 270 or 400 PSIG

Operating Temperature
NBR in Oil: -40...225 °F
NBR in Water: -40...180 °F
Stainless Steel: -40...300 °F
Polypropylene: -40...150 °F

Minimum S.G. of Media
Type 1 Float: 0.70
Type 2 Float: 0.47
Type 3 Float: 0.60
Type 4 Float: 0.92
Type 5 Float: 0.65

Fitting Options

Type 1	Type 2	Type 3	Type 4	Type 5	Type 6
1/8" NPT	1/4" NPT	1" NPT	3/4" NPT	5/16" Tubing	1/2" NPT

NCM: Miniature Multipoint Level Switches

- Lengths up to 48"
- Up to Four Switches
- Float Choices of NBR, SS, or Polypropylene
- Stem Choices of 316 SS or Brass

Float Options

Type 1	Type 2
316 SS - 270 PSIG	NBR
Type 3	Type 4
Polypropylene	316 SS - 400 PSIG
Type 5	
NBR	



NCM Order Details: (Example: **NCM-3132N**)

Model	Fitting Type	Fitting / Stem Material	Number of Switch Levels	Float Type and Material	Options
NCM-	..1.. = 1/8" NPT, Male	..1.. = Brass / Brass ..2.. = SS / SS	..1.. = 1 Switch Level ..2.. = 2 Switch Levels ..3.. = 3 Switch Levels ..4.. = 4 Switch Levels	..1 = 316 SS ..2 = NBR ..3 = Polypropylene ..4 = 316 SS (Narrow version for fitting type 4) ..5 = NBR (Narrow version for fitting type 4)	..N = Alum. Junction Box (NEMA 4) (Fitting Types 3 and 4) ..NT = Alum. Junction Box with Terminal Strip (NEMA 4) (Fitting Types 3 and 4)
	..2.. = 1/4" NPT, Male				
	..3.. = 1" NPT, Male with 1/2" NPT Conduit				
	..4.. = 3/4" NPT, Male with 1/2" NPT Conduit				
	..5.. = 5/16" Tube End				
	..6.. = 1/2" NPT, Male				

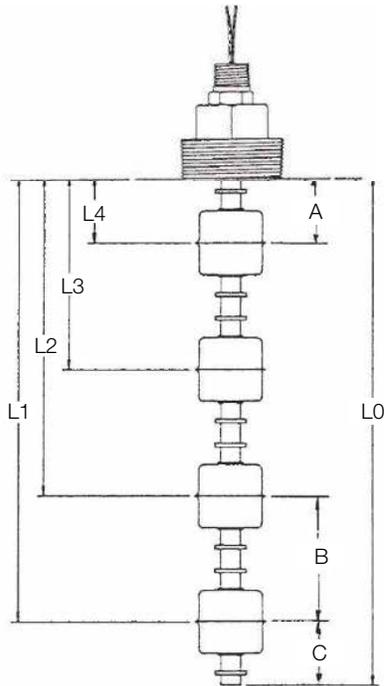
NCM Order Details: Other Considerations

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" with 22, 24, or 26 AWG



Switch Geometry

A = 3/4" minimum distance to highest level
 B = 1-3/4" minimum distance between levels
 C = 1" minimum distance from the end of the unit to the lowest level, except float type 4 & 5 which requires a 2" minimum.

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

Actuation Point Location and Logic		
Distance (Minimum of 1-3/4" Between Levels)	SPST Switch Operation	
L0: _____	L0 = L1 + 1" for float type 1, 2, or 3 L1 + 2" for float type 4 or 5	
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