

Magnetic Float Switches for Liquids



measuring
•
monitoring
•
analyzing

NCP/NCB/NCS



- Available Materials: Brass, SS, NBR, Polypropylene, and PVC
- Maximum Pressure: 400 PSIG
- Maximum Temperature: 300 °F
- Single Point Design
- Field Changeable Switch Logic



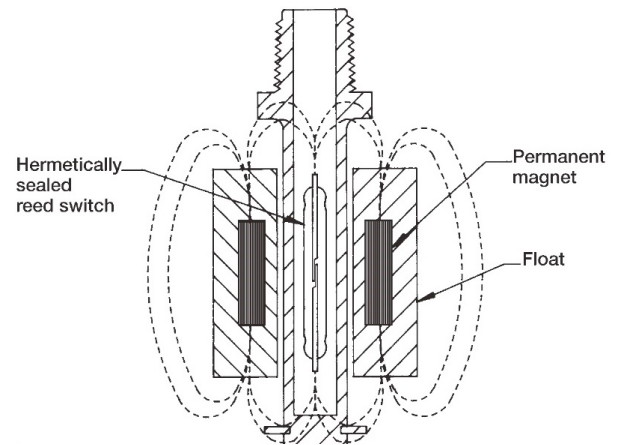
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KOBOLD Instruments, Inc.
1801 Parkway View Drive
Pittsburgh, PA 15205
☎ Main Office:
1.800.998.1020
1.412.788.4890
✉ info@koboldusa.com
www.koboldusa.com

Description

KOBOLD 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. Our level switches can be mounted in the tank top or bottom and will operate with up to a 30 degree tilt from vertical. They are field selectable for normally open or normally closed. They can also be made intrinsically safe for hazardous application by the use of I.S. barriers, such as our REL-6000. Contact protection relays, such as the RL-Series, should be considered to protect the switch from overload.



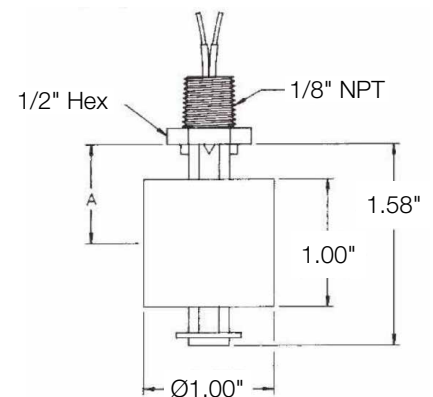
Switch Ratings for Resistive Loads

Contact Rating	Switch Type	Maximum Voltage	Max. Current	
			AC	DC
100 VA	SPST	240 VAC/VDC	1.0 A	0.4 A
20 VA	SPDT	240 VAC/VDC	0.7 A	0.4 A

NCP-2554: Top-Mount Polypropylene Switch

- Compact Size, Small Displacement
- Reliable, Yet Inexpensive
- Seamless Construction
- Resistant to Compatible Chemicals

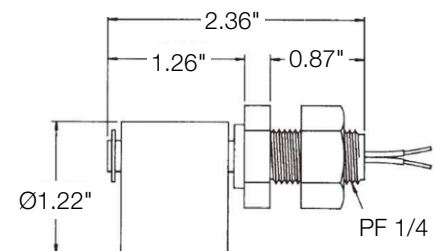
Max. Pressure: 100 PSIG
Op. Temp. Range: -40...225 °F
Fitting: 1/8" NPT
Lead: 22 AWG x 24"
Minimum S.G. of Media: 0.81



NCP-5094: Side-Mount Polypropylene Switch

- Side-Mount Design for Small Vessels
- Minimal Float Travel and Displacement
- Resistant to Compatible Chemicals

Max. Pressure: 40 PSIG
Op. Temp. Range: -40...176 °F
Fitting: PF 1/4" (1/2" x 20)
Lead: 22 AWG x 24"
Minimum S.G. of Media: 0.81



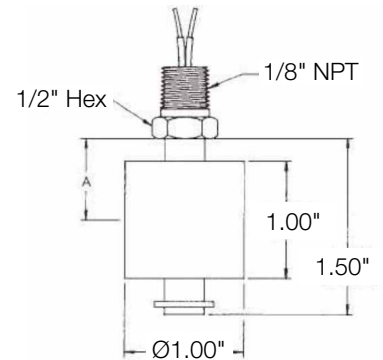
Order Details: NCP

Type	Model Number	Stem / Float	Switch
Top Mount	NCP-2554	Polypropylene / Polypropylene	20 VA, SPST
Side Mount	NCP-5094	Polypropylene / Polypropylene	20 VA, SPST

NCB-1054 / NCB-1064: Small NBR Switch

- Compact Size, 1" dia. Float
- Precise Repeatability
- Reliable, Great Longevity
- Stem in 316 SS or Brass

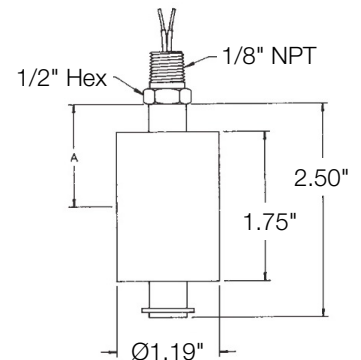
Max. Pressure: 150 PSIG
Op. Temp. Range: -40...230 °F (Oil)
-40...180 °F (Water)
Fitting: 1/8" NPT
Lead: 22 AWG x 24"
Minimum S.G. of Media: 0.55



NCB-1000: Intermediate Size NBR Switch

- Reliable
- Inexpensive
- Compact, Narrow Displacement
- Stem in 316 SS or Brass

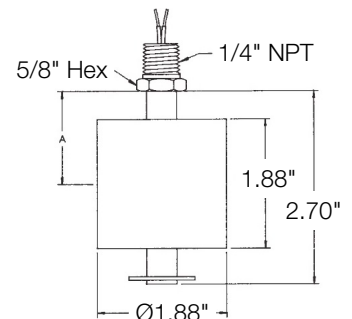
Max. Pressure: 150 PSIG
Op. Temp. Range: -40...230 °F (Oil)
-40...180 °F (Water)
Fitting: 1/8" NPT
Lead: 18 AWG x 24"
Minimum S.G. of Media: 0.55



NCB-5000: Large NBR Switch

- Maximum Displacement for High Viscosity Media
- Rugged Build
- Built for Industrial Service

Max. Pressure: 150 PSIG
Op. Temp. Range: -40...230 °F (Oil)
-40...180 °F (Water)
Fitting: 1/4" NPT
Lead: 18 AWG x 24"
Minimum S.G. of Media: 0.55



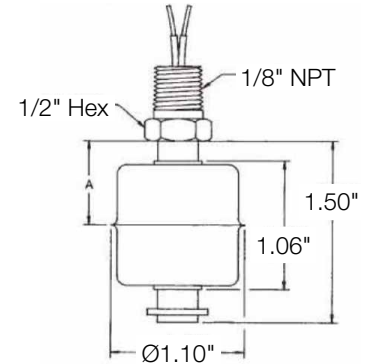
Order Details: NCB

Type	Float Size	Model Number	Stem / Float	Switch
Top Mount	Small	NCB-1054	316 SS / NBR	20 VA, SPST
Top Mount	Small	NCB-1064	Brass / NBR	20 VA, SPST
Top Mount	Intermediate	NCB-1084	316 SS / NBR	100 VA, SPST
Top Mount	Intermediate	NCB-1094	Brass / NBR	100 VA, SPST
Top Mount	Large	NCB-5124	316 SS / NBR	100 VA, SPST
Top Mount	Large	NCB-5134	Brass / NBR	100 VA, SPST
Top Mount	Large	NCB-5154	Brass / NBR	20 VA, SPST

NCS-1074: Small, 316 Stainless Steel Switch

- Compatible with Corrosive Media
- Withstands High Temperatures and Pressures
- Resistant to Shock and Vibration
- Long Operating Life
- Compact Size, 1.1" dia. Float

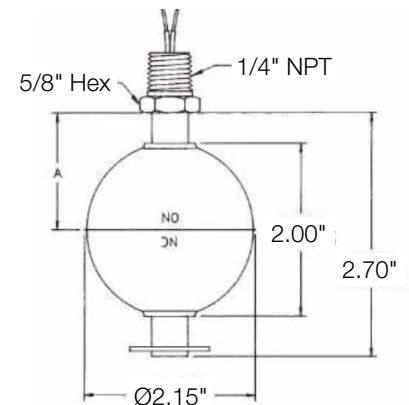
Max. Pressure: 400 PSIG
Op. Temp. Range: -40...300 °F
Fitting: 1/8" NPT
Lead: 22 AWG x 24"
Minimum S.G. of Media: 0.77



NCS-1104...7202: Large, 316 Stainless Steel Switch

- Compatible with Corrosive Media
- Withstands High Temperatures and Pressures
- Resistant to Shock and Vibration
- Long Operating Life

Max. Pressure: 400 PSIG
Op. Temp. Range: -40...300 °F
Fittings: 1/4" NPT (NCS-1104...7201)
 1/2" -13 UNF (NCS-7202)
Leads: 18 AWG x 24" (Standard)
 18 AWG x 120" (Waterproof)
Minimum S.G. of Media: 0.65



Order Details: NCS

Size	Type	Model Number	Stem/Float	Switch
Small	Standard	NCS-1074	316 SS / 316 SS	20 VA, SPST
Large	Standard	NCS-1104	316 SS / 316 SS	100 VA, SPST
Large	Waterproof - NPT	NCS-7201	316 SS / 316 SS	20 VA, SPST
Large	Waterproof - UNF	NCS-7202	316 SS / 316 SS	20 VA, SPST

NCS-5161: Side mount, All 316 Stainless Steel Switch
NCB-5171: Side mount, 316 SS Stem/NBR Float Switch

- 90° Bend Allows Mounting Where Access To The Tank Top or Bottom is Restricted
- 316 SS Stem is Standard
- Float in SS or NBR
- Long Operating Life

Max. Pressure

SS: 275 PSIG (SS)
NBR: 150 PSIG (NBR)

Op. Temp. Range

SS: -40...300 °F
NBR

In Oil: -40...230 °F
In Water: -40...180 °F

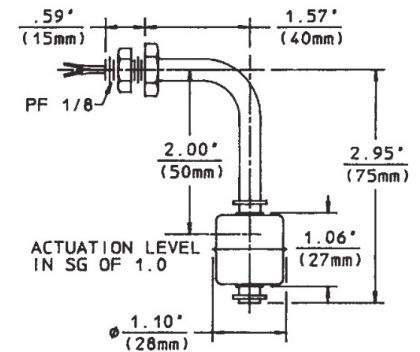
Fitting: PF 1/8" (3/8"- 24)

Lead: 22 AWG x 11"

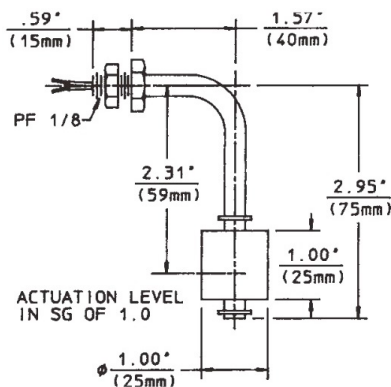
Minimum S.G. of Media

SS: 0.77
NBR: 0.55

NCS-5161: 316 Stainless Steel Float



NCB-5171: NBR Float



Order Details: NCS-5161, NCB-5171

Type	Model Number	Stem / Float	Switch
Side Mount	NCS-5161	316 SS / 316 SS	20 VA, SPST
Side Mount	NCB-5171	316 SS / NBR	20 VA, SPST