

KA Level Float Switch



Flexible by Design

The KA series Cable Suspended Float Switch has options that allow you to replace up to four single level float switches with one 4-point level switch. With PVC, Aton rubber and Teflon cable options, the KA offers high chemical compatibility and durable components built to outlast any other. Kari float switches utilize high performance miniature switches.

Features

- Mercury and Lead free
- Highly chemical resistant
- Proven reliability in operation
- Cost effective

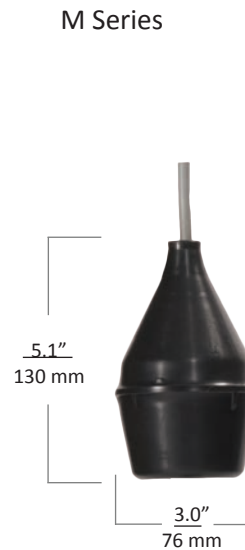
W. H. Cooke & Co., Inc.

sales@whcooke.com

Manufacturer of thermocouples & RTD's Made in the USA
Supplier of industrial controls, heaters, and sensors since 1963

717-630-2222

KA Specifications



Performance

- Switching Differential:
Min: 10 in. - Max: 50 in.
(<10 in. or >50 in. consult factory)
- Maximum Pressure: 28 psi (2 bar)

Connectivity

- Cable: Up to 5 wires

Environmental

- Max. Liquid Temperature:
140°F (>140°F consult factory)
- Protection Rating:
IP67
NEMA 6

Certification

- CSA General Purpose
- CE

Electrical

- Maximum Voltage: 250 VAC or DC
- Maximum AC Current (Resistive): 6 A
- Maximum AC Current (Inductive): 3 A
- Maximum DC Power: 75 VA (0.3 A @ 250 V)

Physical

- Minimum Fluid Specific Gravity:
0.7 for Standard float
0.95 for Mini float
- Standard Cable Lengths:
5m (16 ft)
15m (49 ft)
- Weight: 0.75 lbs
- Float - Polypropylene
- Cable
PVC
Polyurethane
Aton® rubber
Teflon® (PTFE)
TPU

Options

Part Number: KA - - - -
 A B C D

A. Model and Function

- 1L** Low Alarm
- 1H** High Alarm
- 1C** High / Low Alarm
- 1LE** Dual Low Alarm
- 1HE** Dual High Alarm
- M1L** Low Alarm (Mini)
- M1H** High Alarm (Mini)
- M1C** High / Low Alarm (Mini)

- 2HL** High and Low Alarm
- 2L** Hysteresis Fill Control (pump Up)
- 2H** Hysteresis Empty Control (Pump Down)
- 2Y** Empty Control (Pump Down)
- 2A** Fill Control (Pump Up)
- M2AY** High and Low Alarm
- M2L** Hysteresis Fill Control (Pump Up)
- M2H** Hysteresis Empty Control (Pump Down)

- 3L** Hysteresis Fill + Low Alarm
- 3H** Hysteresis Empty + High Alarm
- 3LE** Hysteresis Fill + Isolated Low Alarm
- 3HE** Hysteresis Empty + Isolated High Alarm
- 3Y39** Lead/Lag Pump Control + High and Low Alarm
- 3Y** Empty Control + High Alarm
- 3A** Fill Control + Low Alarm
- 3AE** Fill Control + Isolated Low Alarm
- 3YE** Empty Control + Isolated High Alarm

- 4A** Fill + High and Low Alarm (5 conductor)
- 4L** Hysteresis Fill + High and Low Alarm (4 conductor)
- 4Y** Empty + High and Low Alarm (5 conductor)
- 4H** Hysteresis Empty + High and low Alarm (4 conductor)
- 4L5E** Duplex Pump Fill + Isolated Low Alarm
- 4H5E** Duplex Pump Empty + Isolated High Alarm
- 4Y39** Lead/Lag Pump Control + High and Low Alarm

B. High Temperature Option

- (Null)** Standard 140°F (60°C)
- K** High Temperature 180°F (80°C)

C. Cable Option

- (Null)** PVC
- R** Polyurethane
- A** ATON® rubber
- T** Teflon® (PTFE)
- N** TPU

D. Cable Length

- (Null)** 16 ft. (5 m) cable standard
- L_** (specify in meters)

KA Accessories

Please order separately, by part number.

Description	Part Number
Kari A weight - PVC covered 3/4lb (400g)	22039
Kari B weight - PVC covered 1 1/2lb (800g)	22040
Kari C weight - PVC covered 2 1/4lb (1Kg)	22042
Hanging clamps, polypropylene	22041
Wedge polypropylene	22840-0025

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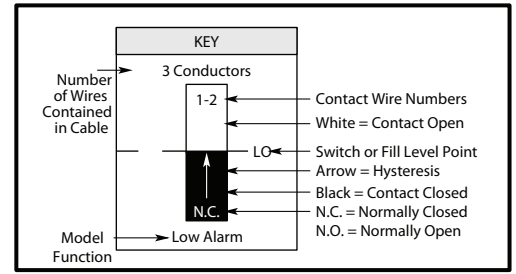
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Model Selection Table

KA-1

Model 1L or M1L 2 Conductors Normally Closed	Model 1H or M1H 2 Conductors Normally Open	Model 1C or M1C 3 Conductors Single Pole, Double Throw
Model 1LE 4 Conductors Dual Low Alarm	Model 1HE 4 Conductors Dual High Alarm	



KA-2

MULTI LEVEL 	Model 2A or M2A 3 Conductors Fill Control	Model 2L or M2L 2 Conductors Fill Control with Hysteresis
Model 2HL or M2AY 3 Conductors High Alarm Low Alarm	Model 2Y or M2Y 3 Conductors Empty Control	Model 2H or M2H 2 Conductors Empty Control with Hysteresis

KA-3

Model KA-3L 3 Conductors Fill Control with Hysteresis Low Alarm	Model KA-3LE 4 Conductors Fill Control with Hysteresis Isolated Low Alarm	Model KA-3A 4 Conductors Fill Control Low Alarm	Model KA-3AE 5 Conductors Fill Control Isolated Low Alarm
Model KA-3H 3 Conductors Empty Control with Hysteresis High Alarm	Model KA-3HE 4 Conductors Empty Control with Hysteresis Isolated High Alarm	Model KA-3Y 4 Conductors Empty Control High Alarm	Model KA-3YE 5 Conductors Empty Control Isolated High Alarm

KA-4

MULTI LEVEL 	Model 4A 5 Conductors Fill Control + High, Low Alarm	Model 4L 4 Conductors Fill Control + High, Low Alarm	Model KA-4LSE 5 Conductors Duplex Pump Fill Isolated Low Alarm
Model 4Y39 5 Conductors Four Normally Open Switches	Model 4Y 5 Conductors Empty Control + High, Low Alarm	Model 4H 4 Conductors Empty Control + High, Low Alarm	Model 4HSE 5 Conductors Duplex Pump Empty Isolated High Alarm

KA Series Multi-Level Float Switch

Up to Four Switch Points in One Float



The KA float switches' revolutionary design incorporates up to four switch points in a single float. This means that a lift station with four float switches can replace them all with just one KA float.

Stop dealing with tangled cables, and frequent replacements. The KA float switches do more with less, and last longer than any other float on the market.

Give us a call at (888) 525-7300 to learn more.



One Float Switch - Four Switch Points

- Up to four switches in one float
- No more tangled cables
- Easier installation and maintenance

Intrinsically Safe

- KA float switches are simple devices
- Just add an intrinsically safe barrier

Longest Lasting

- High chemical compatibility
- Extremely durable build

Built-in Hysteresis

- Mechanical hysteresis avoids "chatter"
- Simplify panel design
- Can work independent of any control system
- Perfect for back-up pump control

Multiple Configurations

- We have a model that fits your panel design
- 1-4 switch points to meet your application needs
- Normally open, normally closed, and hysteresis options

No Lead, No Mercury

- Both the switch and the weight are lead and mercury free



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