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# CDQ-4S,3S,2S Cable Float Type Level Switch

CDQ SERIES



**VARIOUS LEVEL SENSORS & CONTROLLERS FOR YOUR APPLICATIONS**



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# CDQ-4S,3S,2S Cable Float Type Level Switch

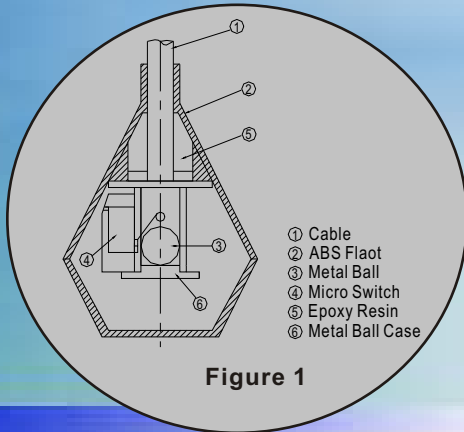


Figure 1

## OPERATING PRINCIPLE

The micro switch and metal ball is installed in the float. When the float is moving up by the buoyancy force, metal ball is rolling to downwards and operates the micro switch. When float ball is in the air, it is heading downwards. But when the liquid lift up the float, the metal ball as shown figure1., roll downwards and this rolling force touches the micro switch on. Reversely, when the liquid drained, float is again remain in air, metal ball rolling to downwards also to micro switch off. This micro switch contact operates various pumps, lamp or buzzer.

## FEATURE & BENEFIT

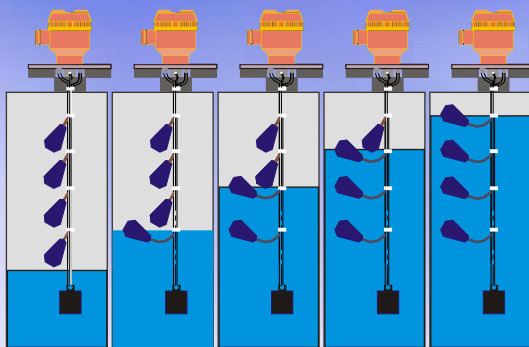
CDQ cable float type level sensor which is mounted on the top of tank and reservoir with appropriate controller in the control panel matched for various level control mode such as high alarm, pump on&off control, high alarm and 2-motor step control or switching controls

### FEATURE

- Adopted micro switch type, not mercury type
- 2" or 3" of float size selectable
- 2" screw or various sizes of flange mounting
- 2 wire type optionally available
- ABS float materials
- With various level controllers, various contact mode available

### BENEFIT

- Ideal in corrosive swage water application
- Simple structure enable long life time without maintenance
- Various liquid (not viscous) application
- Contact position can be adjustable freely by cut cable length
- Maximum 20m of float cable optionally



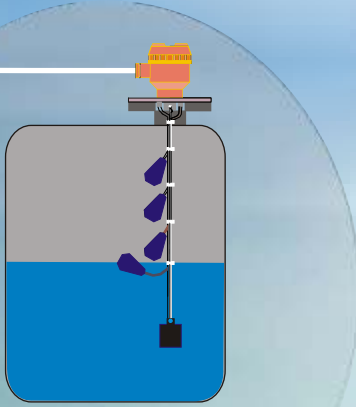
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Supply	L/A ON PUMP ON	L/A OFF PUMP ON	PUMP ON	PUMP OFF	H/A ON PUMP OFF
Drainage	L/A ON PUMP OFF	PUMP OFF	PUMP ON	PUMP ON	H/A ON PUMP ON

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## TECHNICAL SPECIFICATIONS



### Operating condition

<b>Measured Object</b>	Liquid ( Sewage Water )
<b>Liquid Temperature</b>	-10°C to +60°C
<b>Operating Pressure</b>	Max. 2 bar
<b>Ambient Temperature</b>	-10°C to +60°C
<b>Cable Length</b>	4m ( Max.20m Option )
<b>Control Depth</b>	0.4-3.6m ( 0.4-19m Opt. )
<b>Mounting</b>	Tank or Vessel ( Open type, Non-hazardous type )

### Connection

<b>Screw connection</b>	2" NPT (on request)
<b>Flange connection</b>	JIS 10K 80A JIS 10K 100A Option : request size & ratings

### Materials

<b>Housing( Head )</b>	Polycarbonate
<b>Flange</b>	PVC
<b>Rope</b>	Polyethylene 6 x 4m
<b>Flaot</b>	ABS
<b>Cable</b>	PVC 0.75VCTX 3 core
<b>Clip</b>	PVC
<b>Weight</b>	ABS

### Enclosure & Signals

<b>Head</b>	IP65 ( NEMA4X )
<b>Float</b>	Water-Proof
<b>Cable</b>	0.75VCTX3core(O.D 8.1)
<b>Glands</b>	Thread PF1/2"
<b>Max. Operating Voltage</b>	220V AC, 200V DC
<b>Contact Rating</b>	AC250V 5A/ 1SPDT

## APPLICATIONS

Water and aqueous liquids  
Chemicals  
Oil  
Storage tank  
Acids  
Alkalis  
Organic and inorganic solvents



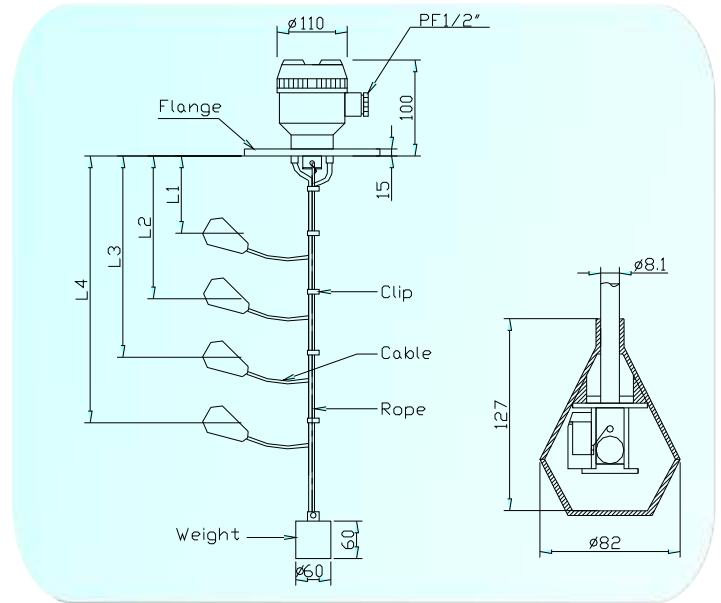
CDI-LCQ4P : 5-wire, On&Off, H/A and L/A  
CDI-LCQ3P : 4-wire, On&Off, H/A or L/A  
CDI-LCQ2P : 3-wire, On&Off  
CDI-2M : 5-wire, Motor Step Control  
CDI-2RM : 5-wire Motor Step/Switching Control  
CDI-2W2RM : 2-wire Motor Step/Switching Control

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## DIMENSIONS



## ORDERING CODE

### Cable Float Type Level Switch Model CDQ

#### Sensor Type Selection

5 wire, 4 Floats

4 wire, 3 Floats

3 wire, 2 Floats

2 wire, 4 Floats

2 wire, 3 Floats

2 wire, 2 Floats

#### Connection ( Flange or Screw Size )

JIS 10K 80A

JIS 10K 100A

2" Screw

#### Cable Length & Contact Type

Cable length ( 4m Std. )

Contact Type: NO or NC

#### CDQ-

4S

3S

2S

2W4S

2W3S

2W2S

F3

F4

S2

4m

NO

### Ordering Code Example

CDQ-4S-F4-4m-NO