



LEVEL SENSE PRODUCT RANGE



COMPLETE LEVEL MANAGEMENT



LIQUID LEVEL SWITCHES AND TRANSMITTERS

Image	Application Area	Specification	Special Note
<p>1.Cable Ended Float Switch CEFS 5</p>	<p>Large Tank, Sump, slurry water, effluent treatment plants</p>	<p>Note: Application specification may change. Please consult us for more details</p> <p>Material :PP</p> <p>Cable length : 5 Mtrs, PVC, 3 Core</p> <p>Contacts : 1 C/ O rated for 10 Amp resistive at 230 V AC</p> <p>Max Operating Temp :70 degree Cent</p> <p>Specific Gravity :0.90 to 1.3</p> <p>Actuation :Internal steel roller ball and micro switch arrangement</p> <p>Position of stopper: Adjustable, 280 mm minimum from the end of float</p>	<p>Most economical level switch, high contact rating .Can directly is interfaced in starter circuit.</p> <p>Top mounting</p>
<p>2.Vertically Guided Single Point Float Level Switch VGLS SP PP : Polypropylene VGLS SP SS : SS</p>	<p>Point level Switch for liquid in all types of vessels. Suitable for chemicals, food industry, lubricating systems</p> <p>for machine tools, printing & packaging & 8 NPT, Suitable for monitoring level of liquid in small tanks</p>	<p>Polypropylene Foam float, Size: Dia. 24 mm x 21 mm, Lead Wire:900 mm, Max Temp:80 degree cent , Steam : Length 34 mm and 100 mm PBT, Dia : 7.9 mm , Suitable for clear liquids having specific gravity : 0.7 to 1 ,</p> <p>SS 316 Float, Size: Dia. 28 mm x 28 mm, Lead wire: 2 Meter, Max Temp: 120 degree cent , Steam : SS 304, 40 mm and 100 mm below nut , Dia : 8 mm , Mounting :</p> <p>SS 316, Lead wire: 2 Meter, Max Temp: 120 degree cent , Steam : SS 304, 40 mm and 100 mm below nut , Dia : 8 mm , Mounting :</p> <p>Contact : 30VA, 240VAC Max</p> <p>Contact Form : SPST</p>	<p>Economical level switch Compact size</p> <p>Various steam length available. Also available with adaptor PP pipe with 18 mm threading connection with check nuts at one end for turbulent liquid</p>

3. Vertically Guided Multi Point Float Level Switch VGLS M SS



Multipoint level
switch for Clear
water, Oil,
Chemical,
& coolant

SS 316 Float, Size: Dia. 28 mm x 28 mm, Max
Temp: 120
degree cent , Steam : SS 304, Specify Rod length
and
switching points from the bottom of flange
Mounting : Screwed or flanged
Suitable for clear liquids having specific gravity:
0.7 to 1
Contact rating : 30 VA, 240 VAC Max
Contact Form : SPST for each level
Termination Head : Cast Al or DIN Connector

Specify rod height and
switching
points in mm
Recommended for 24 V Dc
operation Specify MOC of
rod
and float
Specify flange size and MOC



4.Side Mounted Liquid Level Switch, Miniature, Plastic SMLS P	Small tanks and vending machines. Machines for Process, food Industry	Mounting: Horizontal. MOC of float : PP Specific Gravity : Min 0.7 Logic : SPST Contact Rating : 30 VA, 24 V DC	Ideal for small sized tank, economical Easy to install, suitable for corrosive liquids
5.Side Mounted Liquid Level Switch, Miniature , SS SMLS P OM	Liquid dispensing machines, Liquid Vending machines	Mounting: Horizontal. MOC of float : SS Specific Gravity : Min 0.7 Logic : SPST Contact Rating : 30 VA,24 V DC	Easy to install Low Hysterics Economical, Operation is independent of liquid characteristic.
6.Heavy Duty, Side Mounted Liquid Level Switch SMLS H	Point Level switch for tanks and vessels	Mounting: Horizontal. MOC of float : SS Length of float: 130 mm. Float Dia. : 44 mm. Specific Gravity : Min 0.7 Logic : 1 C/O Contact Rating : 2 Amps resistive at 240 VAC Max. Temperature : Up to 120 Degree Cent Max Pressure: Up to 20 Kg/ Cm Square Mounting : Flanged, Diameter 120 mm, having four holes of 14 mm dia. at 92 PCD (Other Flange Sizes on request) Probe Length	Heavy duty construction suitable for large tanks and vessels Flange mounting
7.Conductivity Level Switch CLS	Suitable for liquids: Water, fruit Juice and chemicals and	Control supply short circuit : 45 mm : 12- 30 V DC, protected against	AC circuit hence no deposition on electrode No calibration required, simple to



conducting liquid
having conducting
range up to 16
micro
Siemens.

Output

: PNP, load current 100 mA

Ambient Temp

: -20 to 60 degree cent max.

Temp in vessel

: max 80 degree cent

Enclosure

: SS 316 integral with probe

Max pressure in
vessel

:

: Screwed: 1/2 inch, 3/4 inch, 1
inch ,

Mounting
BSP / NPT

install.
No moving parts, hence no
wares
and tears.
Corrosion proof SS 316
enclosure
suitable for food industry



<p>8.Electro Optic Point Level Switch EOPLS</p>	<p>Level sensing of clear liquids, oils and beverage. Liquid level sensing in closed pipeline. Leak detector sensor.</p>	<p>Power Supply : 12 V DC O/P : PNP or NPN or open collector Repeatability : + - 1mm Enclosure Prism : Polysulfone, Various enclosures available considering specific liquid Compact size. Ideal level switch where space is constraint With LED indication. Can be fitted on Top, bottom or sides. No moving parts like float</p>	<p>Ideal Point level switch for clear liquids and chemicals Not suitable for use in any liquid that crystallizes or leaves a solid residue</p>
<p>9.Capacitance Level Switches for Sticky, Pasty, High or Low Viscose material MCPS</p>	<p>Dairy, Food Processing Machines, Chemical and Pharmaceutical Industries.</p>	<p>Power Supply 10-30 V DC, Three wire O/P : PNP or NPN Load Current : 100 mA Repeatability : + - 2 mm Enclosure : Stainless Steel Operating Temp: 60 Degree Cent</p>	<p>Used for sticky, pasty or viscous material and powder. Unaffected by liquid turbulence, sedimentation or air bubbles, foam or suspended particles</p>
<p>10.Compact Vibrating Fork Level Switch for liquids VFLS I</p>	<p>Most compact Level switch for Oil, Diesel, edible oil, gear oil, honey, water, juices, aerated drinks, milk and chemicals.</p>	<p>Enclosure: SS 316 L, Integral with fork Max. Process temp 150 degree, (special models for 200 degree cent) Ambient Temp : -20 to 60 degree cent Control supply : 12 - 30 V DC, Reverse polarity protected Output : PNP open collector, max 100 mA Load</p>	<p>Most Compact and miniature size VFLS Level Switch. Wetted parts are of high polished, non corrosive SS 316. Suitable for food grade and</p>



Used
in brewery, food
processing, food
cosmetic,
chemicals,
pesticides,
pharmaceutical,
dairy
and packaging.

Switch status display: By LED
Mounting : Screwed, 1/2 inch, 3/4 inch, 1 inch
g BSP / NPT
please specify. (Try-clamp flange arrangement
models
available).
Suitable for clear liquid and water
Probe length : 65 mm ,
Fork (Tong) Length : 44 mm
For liquids and slurries of density greater than
0.7 gm/cc
and viscosity up to 10000 centipoise.

pharmaceutical application
Used
in small vessels and
pipelines
Can also be used for mud,
slurry
& sticky material or water
with
high turbidity.



<p>11.Level Transmitter for Liquid : RFLT</p>	<p>Level Transmitter for conducting liquids like water, feed, Water, fruit juice, milk, wine & acids</p>	<p>Rod Type , Length : 3000 mm, Loop Powered, Insulated Probe, Housing : Cast Al, weather-proof, IP 65 Cable gland : 1 x PG 13.5 : 12-30V DC, Loop Powered Output : 4-20mA, Supply Maxi. Temp. : 60 Deg C (electronics) : Rod Probe type : SS 304, Probe Sensing probe: 8mm dia. : 1/2" BSP, SS 304 (flange is in your Mounting scope) Insulation : PTFE Probe length : Please specify</p>	<p>Compact, Low cost Analogue O/P. Loop powered O/P: 4-20 mA, Voltage O/P : 0-5 V / 1-10 V DC Rugged probe design</p>
<p>12.Fuel Level Transmitter FUELtrans</p>	<p>Fuel Level Transmitter for diesel & petrol Level Transmitter for non conducting liquids like oil , and hydrocarbons like Acetone, Ammonia, Benzene and Chemicals.</p>	<p>Rod Length up to 1500 mm Housing Head : Al Cable gland Supply : 12/24 DC, : M12 Output : 1.5 to 4.5 V DC ,1.5 -10 V DC / loop powered: 4-20 mA Accuracy : + - 1 % FSD , Out Put Current : < 20 mA Warm up time after power on < 10 Sec Maxi. Temp.: -20 to 85 % cent Probe type : Rod, Dia. 20 mm Probe : Al / SS Mounting : Threaded / Flanged</p>	<p>Analogue O/P / Loop powered Economical, low cost Models with GPS connectivity</p>

13. Ultrasonic And Radar Level Transmitter



For monitoring level liquid by non contact way

2 Wire / 4 wire Level Transmitter.

Range: Up to 70 Meters

Housing : Al / ABS Plastic

Enclosure of Electronics: IP 65 / NEMA 4.

Output :4 - 20 mA with Communication Port / HART

Protocol

Power Supply: 18 to 35V DC.

Process Connection: 1.5" BSP with slip on 4" MS Flange, 15 mm thick.

Available in guided type with probe or horn type with horn

Almost no effect of corrosion,

bubble, water vapors.

It is also not effected due to change in the temp. and pressure

of the medium



<p>14.Power Supply Relay Unit PSR 1</p>	<p>For powering Level Switches working at 24 V DC with Aux supply 230 V.</p>	<p>For powering Level switch having supply voltage of 24 V DC : From Level Switch, PNP / NPN (Please I/P specify) Voltage O/P to level switch : 24 V DC, 100 mA O/P : 1 C/O relay Contact, Contact Rating : 5 Amp resistive at 230 V AC Enclosure : 35 mm DIN rail, Plastic enclosure / Field Mounting IP 65 Aux Supply Voltage : 230 V AC</p>	<p>Models with weatherproof (field Mounting, IP 65) : Available</p>
<p>15.Pump Controller PSR</p>	<p>For powering two Level Switches (fitted at Top and bottom) With pump control logic</p>	<p>For powering two Level Switches fitted at top and bottom of the tank with logic O/P Supply voltage of 24 V DC : From two Level Switch, PNP Voltage O/P to level switch : 24 V DC, 100 mA O/P : 1 C/O relay Contact for pump control Contact Rating : 5 Amp resistive at 230 V AC : 35 mm DIN rail, Plastic enclosure / T Enclosure Field Mounting IP 65 Aux Supply Voltage : 230 V AC</p>	<p>PSR-F : Filling level controller : The relay energizes(Pump ON) when level reduces bottom and de-energizes (Pump OFF) when level reaches top PSR-E : Emptying Level Controller The relay energizes (Pump ON) when level reaches top level and de energizes (Pump OFF) when level reaches bottom Models with weatherproof (field Mounting, IP 65) : Available</p>
<p>16.Level Indicator</p>	<p>For Remote indication of level Hi-Low contact</p>	<p>Power Supply : 90 to 270 V AC, 50 Hz : From Level Transmitter , loop powered / 3 inputwire / 4 wire (Please specify)</p>	<p>Models with weatherproof (field Mounting, IP 65) / flameproof enclosures : Available</p>





setting

Rang
eProgrammable
Display : 4 Digit, 0.5" red LED
Transmitter Power Supply : 24 V DC, 30 mA
Relay : 2 C/O,(1 C/O for high and 1 C/O
Contacts for low)
rated for 230 V AC, 5A
Communication port : RS 485 with Half Duplex
MODBUS
protocol : Optional
Mounting : Flush on Panel Cutout : 92 X 92 mm



LEVEL SWITCHES AND TRANSMITTERS FOR POWDER, GRAINS AND BULK SOLIDS

Image	Application Area	Specification	Special Note
<p>17.Capacitive Level Switch Type</p> <p>CLS M P</p>	<p>Suitable for : Food grain, Plastic Chips, wood chips, saw dust, sugar, Cement, Detergent, wheat flour, chemical, powder, oil, Detection of granular solids and powder, over fill and dry run</p> <p>Suitable for level sensing of coal, iron</p>	<p>Power supply : 12-30 V DC , Enclosure : SS 316, Ambient</p> <p>Temp : -20 to 80 degree cent, Probe Length : 35 mm, O/P :</p> <p>PNP, NO, Process Connection : 1/2 inch, 3/4 inch, 1 inch</p> <p>BSP/ NPT (Please specify any one) O/P : 100 m A Max,</p> <p>Protected against short Circuit of load, Process Temp : 80 degree cent max , Sensor face : PTFE insulated</p>	<p>Note: Not recommended for sticky & conductive material</p>
<p>18.RF Admittance Level Switch Rod Probe</p>	<p>ore, powder having particle size less than 30 mm. Can also be used for higher size lump provided it also contains fines to cover the sensor face completely (Please consult us)</p>	<p>Rod Probe, Teflon Insulation, Control Unit : Integral Control Circuit, Integral with Probe</p> <p>Enclosure : Cast Al, IP 65</p> <p>Control supply : 230 V AC, 50 Hz. Integral with Control Unit : temp up to 60 degree cent</p> <p>Output : 2 C/O relay contact, Contact Rating: 5 Amps</p> <p>Switch status display : By LED</p> <p>Powder Coated , Paint shade : Blue, Shade As per IS 5</p> <p>Cable Entry : PG 16 , 2 Nos</p> <p>Probe Type : Rod probe, Rod : SS, 16 mm dia, Insulation : PTFE , Teflon,</p>	<p>With special coat guard amplifier circuit which will ignore effects of dirt on probe. Field selectable operation logic configurable high or low point Switching.</p> <p>Models with: Ceramic insulation for temp up to 450 degree cent.</p> <p>Remote models for high ambient temp.</p>

 <p>19.RF Admittance Level Switch Rope Probe</p>	<p>Top mounted heavy duty level switch for bunkers and hoppers. Stock Pile level sensor for stacker reclaimer.</p>	<p>Rod Length : Please specify in mm, Mounting : Screwed, 1 1/2 inch BSP, Operating Temp (for probe) : 150 degree cent</p> <p>Other specifications as Rod Probe Level Switch except Probe Type : Rope probe, Insulation : PTFE, Teflon, Rope Length : 1000 mm, GI wire (approx 12 mm diameter) with MS counter weight, Other rope length also available</p>	<p>Heavy duty level switch for bulk solids</p>  <p>6</p>
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<p>20.RF Admittance Level Switch Disc Probe</p>	<p>Chute Block Switch Material Plug Switch for discharge hopper</p>	<p>Other specifications as Rod Probe Level Switch except Sensor Probe : Heavy Duty Disc Probe, MOC : Sensor : SS, Shield / Ground : MS, Insulation : UHMWPE / HDPE, Mounting : flanged (Counter flange to be ordered separately), Operating Temp (for probe) : 150 degree cent, Max moisture contains:</p>	<p>The material should be dry and moisture contains should not be more than 5-6 % (The material should not form layer more than 6 mm on the face of the switch)</p>
<p>21.Vibrating Fork Level Switch For Powder</p>	<p>Heavy duty Level Switch for free flowing powder.</p>	<p>Enclosur: Cast Al, IP 65 (Max. operating temp 60P e degree) Control supply : 230 V AC, / 110 V AC 50 Hz please specify any one Output : 2 C/O relay contact, Contact Rating: 5 Amp. Resistive at 230 V AC. Switch status display : By LED Mounting : Screwed , 1 1/2 inch BSP Suitable for free flowing powder and granules having size less than 10 mm Fork Length: 250 mm , other length on request Ambient Temp : 60 degree cent, Max Temp in vessel : 120 degree cent</p>	<p>particle size should be less than 10 mm and to be free flowing. O/P : Relay Contact</p>
<p>22.Vibrating Rod Level Switch For powder</p>	<p>Suitable for : Cement, Powdered milk, flour, Spices, coffee beans, coffee powder, tobacco,</p>	<p>Enclosur : SS 316 e Ambient Temp : 60 degree cent max, Process Temp : Up to 150 degree cent (200 degree cent on request) Control supply : 12-30 V DC / 90-230 V AC Output: PNP, NO, max 100 mA, Protected against short</p>	<p>Suitable for free flowing powder and granules having size less than 10 mm Heavy duty</p>



clay, coal ash,
plastic
granules, sand,
foundry sand,
animal
food etc.

circuit of load / Relay O/P
Mounting : Screwed , 1 1/2 inch BSP / NPT
(Please specify).
Flanged mounting (2 inch ANSI/ ASA , also
available with
additional price).
Rod : 250 mm, (models with higher rod
Length length up
to 2000 mm)
Ambient Temp Control Unit : -20 to 60 degree
cent,
Max Temp in vessel : Up to 150 degree cent
(Special
models up to 200 degree cent)



<p>23. Rotating Paddle Type Level Switch</p>	<p>Heavy duty Level Switch for free flowing powder and bulk solids and food grains.</p>	<p>Suitable for free flowing powder and granules Enclosure : Cast Al, IP 65 (Max. operating temp. 60 degree) Control supply: 230 V AC, 50 Hz.</p> <p>Output : 1 C/O contact, Contact : 5 Amps. Resistive at 230 V AC. Rating : Screwed , 1 1/2 inch BSP, SS 304 Mounting Rod: 150 mm, 12 mm diameter. Other rod length available. Various paddle designs available for different materials</p> <p>Max Temp in vessel : 80 degree cent</p>	
<p>24. Diaphragm Type Boot Level Switch / Membrane Level Switch</p>	<p>Suitable for free flowing powder and grains having density up to 0.3 to 2.5 g/cm³, Density up to 0.05 Kg/dm³ (50 Kg/M³) Approx.</p>	<p>Industrial grade, For monitoring level of powder, granules and food grains Switch compartment : Al, Polycarbonate, IP 40 (Max. operating temp 80 degree)</p> <p>Output : 1 C/O relay contact, Contact : 10 Amps. Resistive at 230 V AC. Rating Diaphragm Material : SS Rubber diaphragm also available</p>	<p>Industrial grade suitable for particle size up to 30 mm (should also contains fines) (without sharp edges) Sensitivity : 300-500 gm</p>
<p>25. Radar Level Transmitter</p>	<p>For monitoring level of solids and powder</p>	<p>2 Wire / 4 wires Level Transmitter. Range: Up to 70 Meters</p>	<p>Almost no effect of dust, corrosion.</p>







by non contact
way
Hopper/ Bunker
level
sensor

Housing : Al / ABS Plastic
Enclosure of Electronics: IP 65 / NEMA 4.
Output :4 - 20 mA with Communication Port /
HART
Protocol
Power Supply: 18 to 35V DC.
Process Connection: 1.5" BSP with slip on 4" MS
Flange, 15
mm thick.
Available in guided type with probe or horn type
with horn

It is also not effected due to
change in the temp. and
pressure
of the medium
Analogue O/P



<p>26. Accessories for Level Switches</p> 	<p>Counter Flange</p>	<p>Counter flange For RF Disc Probe / Rod Probe Paddle / Vibrating Fork / Ultrasonic and Radar Level Sensors</p>	<p>Specify MOC</p>
<p>27. Portable type ESP Hopper Condition Monitoring System</p>   	<p>Needs taring only once Indicates :</p> <ol style="list-style-type: none"> Quantity of ash inside the hopper % Early indication of ash deposition on the hopper walls Rat Hole formation 	<p>Consist of:</p> <ol style="list-style-type: none"> Coal Ash Sensor Portable Power Supply <p>Supply : 85 to 230 V AC from portable power supply Naturally Occurring Gamma Ray Detection Technology No need of external Gamma Ray Source or approval, fully safe . Mounting : From outside the hopper, no need of cutting walls or making holes to the hopper To be located near the top level RF switch of the hoper</p> <p>Operating Temp : Up to 85 degree cent, Weight : Approx 4.5 Kgs Portable Heavy Duty Power Supply for above: Back Up : 8 Hours for continuous reading, needs recharging after use Power Supply I/P : 230 V AC , Weight : Approx 8 Kgs</p>	<p>Additional Features without an additional cost :</p> <ol style="list-style-type: none"> Same product can be used for continuous hopper monitoring & interlocking of contacts and O/P Analogue 4-20 mA wrt to ash quantity in hopper Relay contacts for tripping, High and low level

For more details:

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