



ECONOMICAL FLOAT LEVEL SWITCH

MODEL : VSE

FOR DIESEL FUEL



- Simple and made to customer specification
 - Usable for DIESEL FUEL
- Low cost, compact size, reliable and long switch life.
- Wet parts are made from Steel, 304SS and Buna N
 - Multiple choices of points (up to 4 contact points)
- Standard enclosure with aluminium european head, IP-68
- Optional with explosion proof enclosure, ATEX or NEMA
 - Applicable for diesel fuel with temp up to 80 °C
 - All reed and lead wire contact are fully isolated

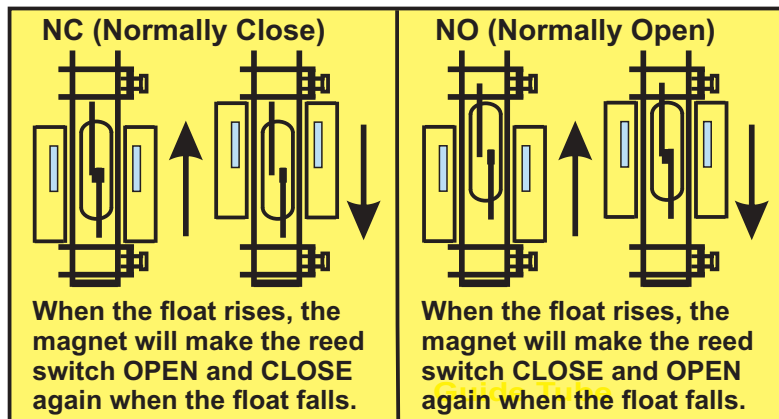
Measurement & Control

DESCRIPTION

VSE vertical float level switch are specially designed for DIESEL FUEL.

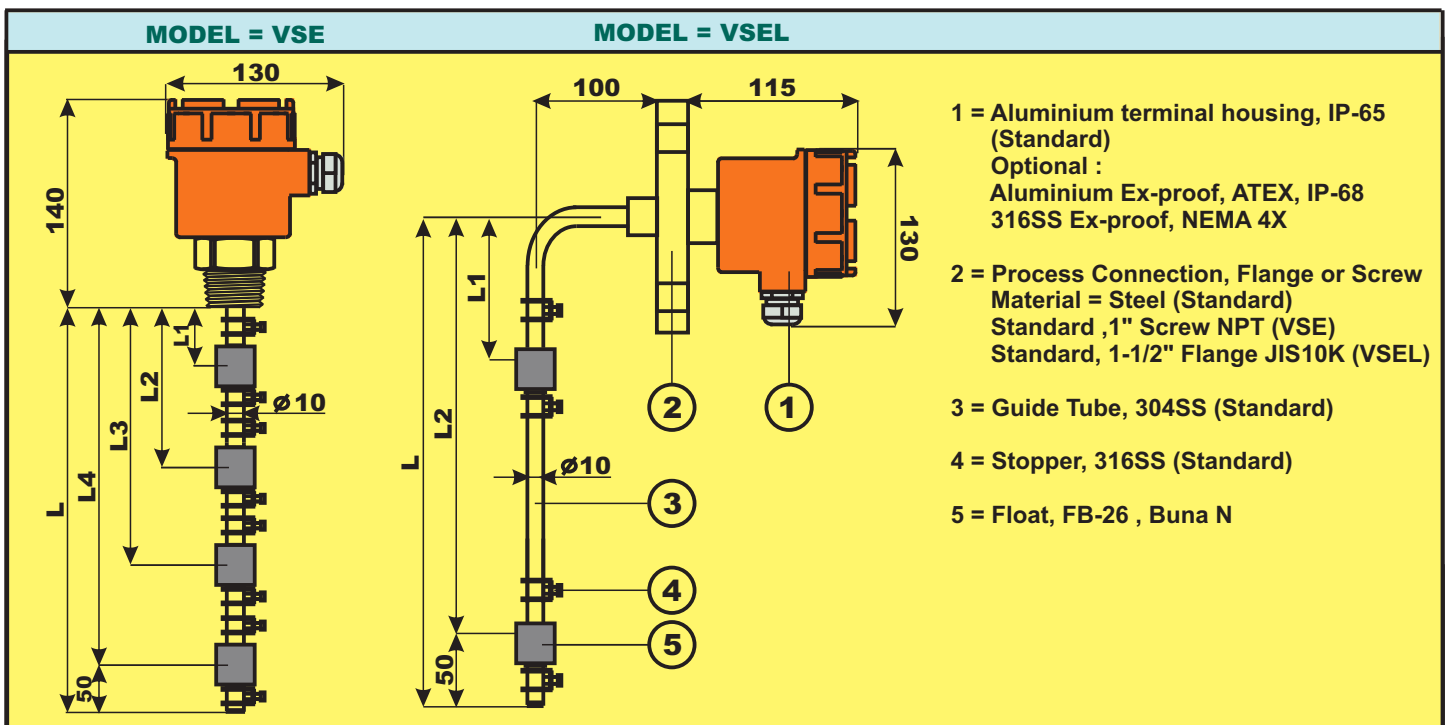
The level sensor can be installed at the top or at the side of the vessel or tanks. Reliable yet low cost level switch sensor that can be used for controlling pumps, giving signal to BAS, PLC or alarm systems. The standard material of Steel, 304SS and Buna N are ideal for DIESEL FUEL.

OPERATION PRINCIPLE

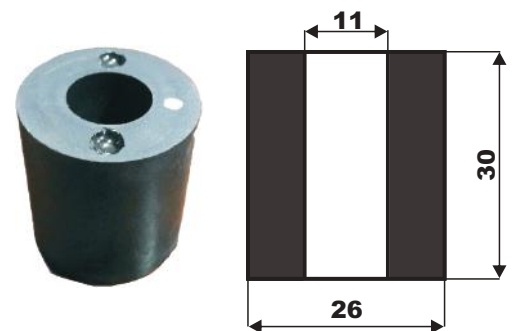


VSE float level switches contain hermetically sealed reed switch inside the stem and a permanent magnet in the stainless steel float. As the float rises or falls due to the level of the liquids, the reed switch will be activated by the magnet field from the permanent magnet inside the float. The Switch will be OPEN or CLOSE, depending on the required application. The possible set points can be up to 4 points contacts.

SPECIFICATION



MODEL	VSE & VSEL
APPLICATION	DIESEL FUEL
PRESS MAX (Barg)	5
TEMP MAX (Deg C)	80
MOUNTING	TOP (VSE) & SIDE (VSEL)
SG MIN (Kg/m ³)	700
FLOAT TYPE	FB-26
FLOAT MATERIAL	Buna N
TUBE MATERIAL	304SS
CONN MATERIAL	STEEL
TERMINAL BOX	Alum terminal housing, IP-65 Alum Ex-proof, ATEX, IP-68, Ex d IIC T6 316SS Ex-proof, NEMA 4X, IP-68
OUTPUT CONTACT	SPST, 2A, 400VAC/DC, 40VA

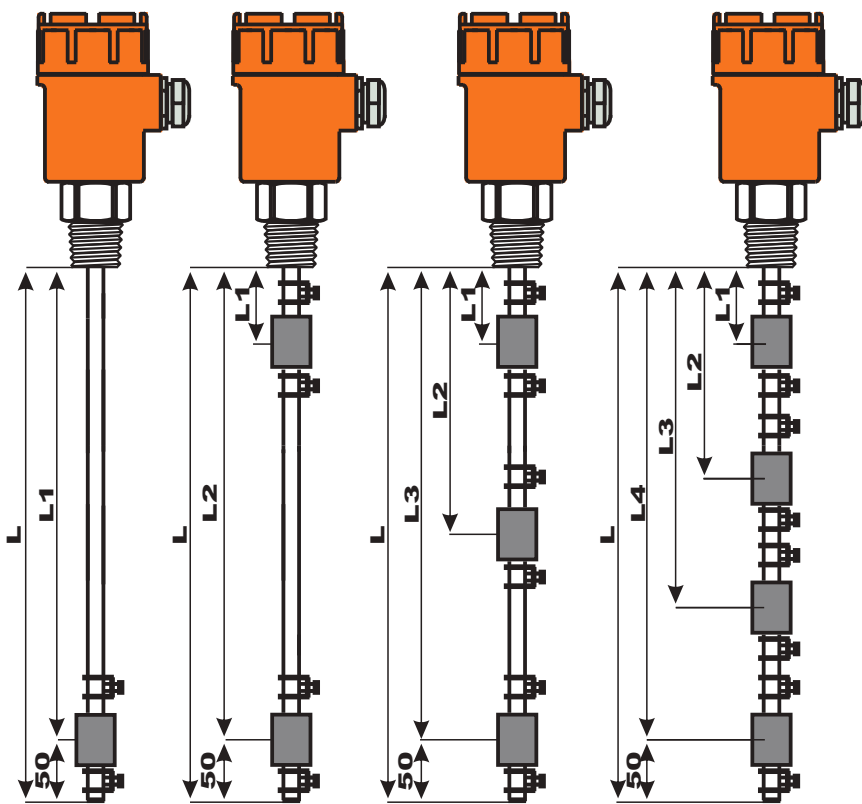


MODEL = FB-26
MATERIAL = Buna N
PRESS MAX = 5 Barg
TEMP MAX = 80 °C
SG MIN = 0,7

TERMINAL HOUSING

MODEL	Alum terminal housing		EXPLOSION PROOF HOUSING	
	MATERIAL	Aluminium	Aluminium (ATEX) & 316SS (NEMA 4X)	
PROTECTION	IP-65	Exd IIC T6, ATEX, IP-68 & NEMA 4X		
ELECT CONN	M20 x 1,5	1/2" NPT Female		
AMBIENT TEMP	100 °C	100 °C		
NO OF CONTACT	Max 6 x SPST Contact	Max 4 x SPST Contact		

HOW TO ORDER VSE LEVEL SWITCH

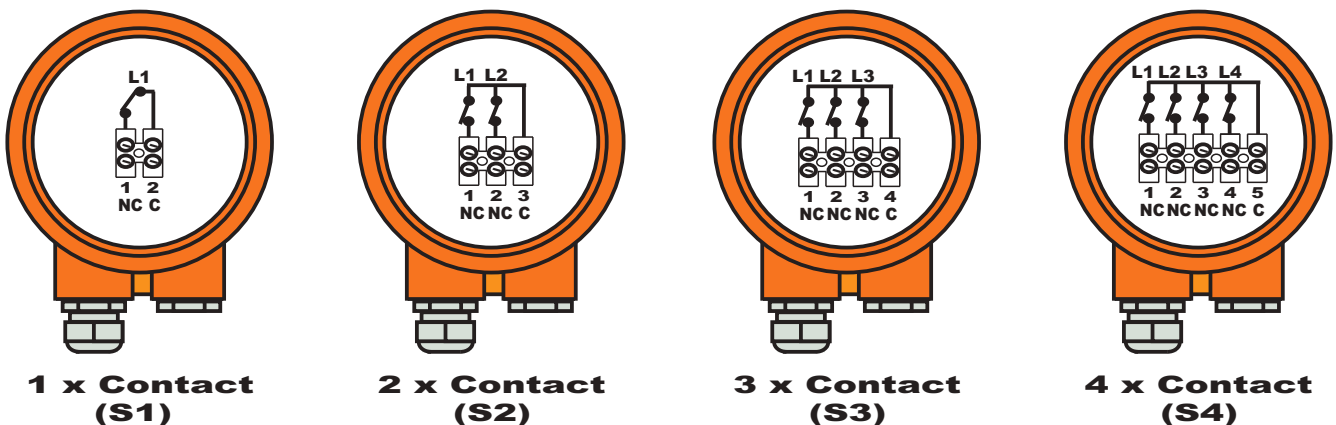


1 x Contact (S1) 2 x Contact (S2) 3 x Contact (S3) 4 x Contact (S4)

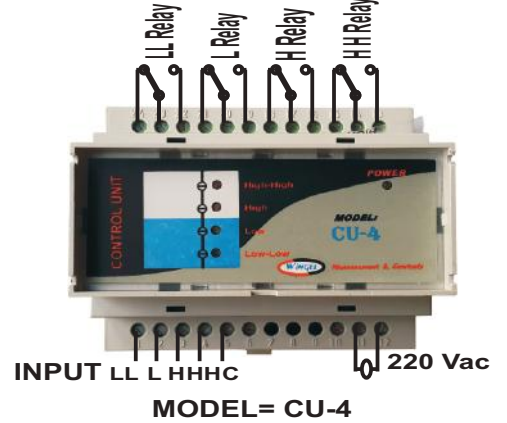
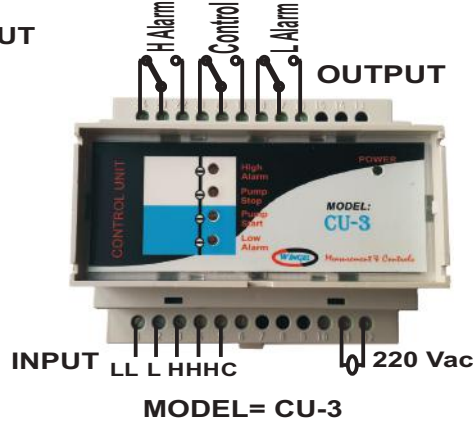
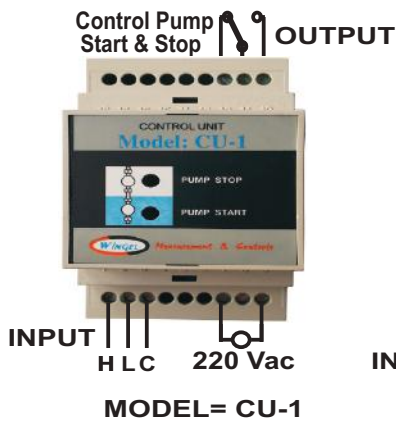
- It was simple way to order the correct vertical float level switch:
1. Please provide the process conn you need, flange or thread and size.
 2. Please specify your contact points needed, 1, 2, 3 or 4 contacts.
 3. After that please also specify your contact points length, see the below column, remember you should add 50mm to your lowest contact point.
 4. Please also provide your contact points mode, either NC (Normally close-open at raising level) or NO (Normally open-close at raising level) Default from factory is NC.
 5. The latest please also inform us the temperature and pressure operating of the control media.

FOR ORDERING PLEASE SPECIFY LENGHT	
1 x Contact (S1)	2 x Contact (S2)
L1 =mm L = L1 + 50 mm	L1 =mm L2 =mm L = L2 + 50 mm
3 x Contact (S3)	4 x Contact (S4)
L1 =mm L2 =mm L3 =mm L = L3 + 50 mm	L1 =mm L2 =mm L3 =mm L4 =mm L = L4 + 50 mm

WIRING DISAGRAM



CONTROL PROTECTION UNIT



ORDERING CODE

MODEL	DESCRIPTION			
VSE	Economical Top Mounted Float level switch for DIESEL FUEL, 1" NPT Standard Conn			
VSEL	Economical Side Mounted Float level switch for DIESEL FUEL, Conn = Flange Standard			
CODE 1	PROCESS CONNECTION SIZE			
1	1"	1-1/2"	2"	Others Connection, Please Contact
CODE 2	PROCESS CONNECTION TYPE AND RATING			
SN	SN = Screw NPT (Standard Conn)		SB = Screw BSP	
	FJ = Flange JIS 10K	FA = Flange ANSI 150RF	FD = Flange DIN /PN10	
CODE 3	NO OF CONTACT OUTPUT			
S4	S1 = 1 x SPST Contact		S2 = 2 x SPST Contact	
	S3 = 3 x SPST Contact		S4 = 4 x SPST Contact	
CODE 4	GUIDE TUBE LENGTH (MM)			
L1000	Guide Tube Length Max 3000mm, Diameter 8mm			
CODE 5	FLOAT TYPE			
FB-26	FB-26, Buna N Float			
CODE 6	OPTIONS			
0	No Options			
Ex	Available with Ex-proof Enclosure (Please contact)			
CU-1	Control protection unit with output 2 x SPDT relay			
CU-3	Control unit with 1 output control & alarm high and low			
CU-4	Control unit with 4 independent relays output			
VSE-1SN-S4-L1000-FB26-0 Example				



Measurement & Control

PT. WINGEL INSTRUMEN INDONESIA

Measurement & Control

Citra 8 - Aerolink Blok. L03 No. 25 - Citra Garden City

JAKARTA BARAT

Phone : 62-21-56955637, 56955638

Email : info@wingel.id / Webside : www.wingel.id