Multiple Level Switch LS-800E (1-7 switch points)

Max. contact loads of the reed switch:

SPST 100 VA; 3.0 A; 250 VAC (NC/NO).

SPDT 20 VA; 0.5 A; 250 VAC (Change-over contact).

The data NC/NO are defined for: an empty tank / rising level.

#### **Specifications**

Materials Stem	Brass	Stainless Steel					
Mounting elements Flange	Brass	Stainless Steel Stainless Steel only					
Float	Buna N	Stainless Steel	PTFE				
Operating pressure	10 bar	30 bar	3 bar				
Float temperature	-40°C to +80°C Water -40°C+110°C Oil	-40°C to +150°C	-40°C to +150°C				
Min. specific gravity of the liquid	0.58 g/cm³	0.80 g/cm <sup>3</sup>	0.71 g/cm³				
Depth of immersion at a density of 1	~20mm	~30mm	~34mm				
Protection rating	IP65 (IP64 for Potted Cable/Leads)						

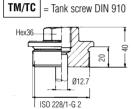
#### **Mounting Direction**

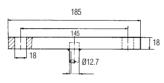
Tank top: 0 Bottom: U

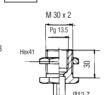
#### **Mounting Types**

(Material: Stainless Steel or brass)

**BCC** = Flange DN65-PN 16

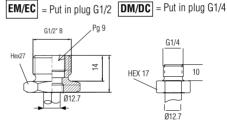


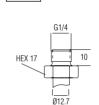




= Bulkhead fitting

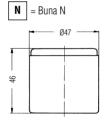
AM/AC

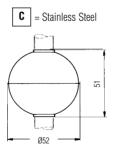


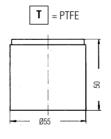


Available with Potted Cable/Leads Option only

### **Floats**

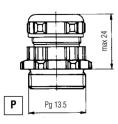




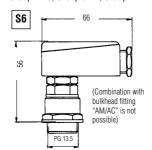


#### **Electrical Connections**

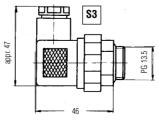
Pg 13.5 Cable and gland Cable standard length appr. 1m; Temperature: -20 ... +80°C



Plug connector acc. DIN43651\* 6 poles + earth Temperature: -20...+90°C max switch points: Group 1:5, Group 2: 3, Group 3: 2, Group 4: 2

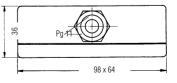


Plug connector acc. DIN43650\* 3 poles + earth Temperature: -20 ... +90°C max switch points: Group 1:2, Group 2:1

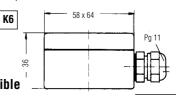


## Terminal box 12 poles\*

Temperature: -20 ... +150°C



Terminal box 6 poles\* Temperature: -20 ... +150°C



\* Combination with put in plug "EM/EC" is not possible

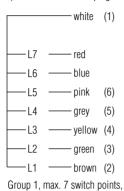
K12

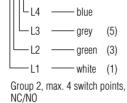
LEVEL SWITCHES



#### **Switching Groups**

(Pin correlation of the plug connectors)





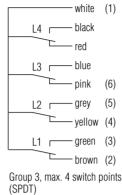
brown (2)

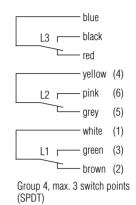
yellow (4)

pink

red

(6)





#### **Options**

NC/NO

#### Vertical adjustment

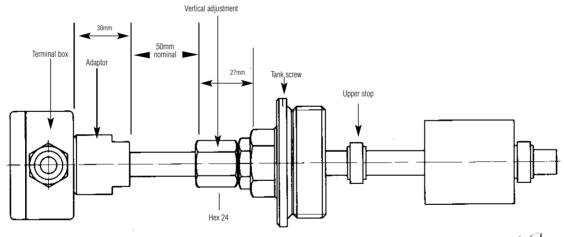
Vertical adjustment is only available with tank screw (T). It allows the stem to be adjusted vertically, limited only by the distance from the top stop ring to the electrical connector less the thickness of the mounting.

(Combination with bulkhead fitting "AM/AC" is not possible)

#### Vertical adjustment



**VVC** = Stainless Steel max. pressure: 10 bar



#### Slosh shield

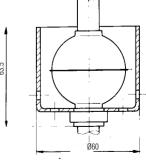
Each switch point can be equipped with a slosh shield, made from Stainless Steel, to avoid unintentional repetitive opening and closing of the switch due to turbulence or ripple.

(Combination with tank screw "TM/TC" is not possible)

### Slosh shield

Material: Stainless Steel

DH



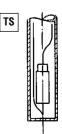
#### **Temperature Switch**

For Large or OEM applications the LS-800 may be fitted with a temperature switch.

It is installed at the lower end of the stem and reduces the number of switch points by one.

Maximum Rating 2A, 120 Vac or 2A, 24 Vdc

For full specification contact your sales office.



LEVEL SWITCHES

# LS-800E Multiple Level Switch check list

Customer:						Dimensions			
Order no.: Quantity:					<ul><li>L<sub>0</sub> = 3000mm max.</li><li>A = 60mm min. distance to highest switch</li></ul>				
	(Please complete fully and accurately)				point.		stance between stem and		
					В =	lowest switch p			
							tween two switch points		
, ,	1Max				υ =	7mm min. dual (One float actua	ates two switch points).		
	1 Max				Reference (Sealing I				
	Min					11	t L4		
5. Viscosity (SSU):									
	Depth						l <sup>3</sup> $\Xi$		
7. Connection periphery (eg re	lay, PLC,):					L2			
1.	2. 3.	4.		5.	6.	ļ			
1. Mounting direction:	Through tank top Through tank bottom		0 U			L1			
2. Mounting: Tank screw G2"	Brass		TM			В	ent Stem Option		
Bulkhead fitting	Stainless Steel Brass Stainless Steel		TC AM AC			ļ	50		
Put in plug G1/2"	Brass Stainless Steel	H	EM EC		SPST: Only NO	SPDT:	Add 50mm to 'A'  Dimension		
Flange DN 65/PN16	Stainless Steel		BCC	D T	SPST:	alternatively NO/NC	Jo     Dimension		
Put in plug G1/4"	Brass Stainless Steel	H	DM DC	<u> </u>	Only NC				
No Mounting:	Brass Stainless Steel		OM OC	Level dime mid of float		olerances ± 3	mm) related to the		
3. Floats:	Buna N Teflon Stainless Steel		N T C	Distance level		NO group 1	NC group 1 NO group 2 NC group 2 SPDT group 3		
4. Electrical connection:	Plug connector DIN 43650 Plug connector DIN 43651 (Not with AM/AC)		S3 S6*	<u>=</u> L1 =		<u>\</u>			
	Cable gland		P	L2 =					
	Potted Cable Potted Leads		VC VL	L3 =					
	Terminal box 6-poles		K6 K12	L4 =					
5. Switching group:	Terminal box 12-poles Group 1		1	L5 =					
, , , , , , , , , , , , , , , , , , ,	Group 2	Ħ	2	L6 =					
	Group 3 Group 4	H	3 4	L7 =					
6. Options:	Vertical adjustment Brass		VVM	L0 =		1	2mm max 3000 mm		
	Vertical adjustment Stainless Steel		VVC	Please spec	ify each i	non listed par	t:		
	Slosh Shield Temperature Switch	H	DH TS						
	Bent Stem		BS	-					
*S6 not available with AM/AC	01 - 1	יין א	luata ! II -						