K12

# 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**

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**

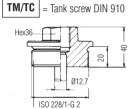
Tank top : 0

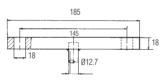
Bottom: U

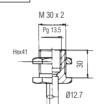
### **Mounting Types**

(Material: Stainless Steel or brass)

= Flange DN65-PN 16

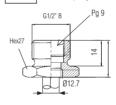


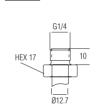




= Bulkhead fitting

AM/AC

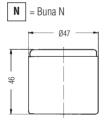




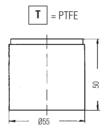
Available with Potted Cable/Leads Option only

**EM/EC** = Put in plug G1/2 **DM/DC** = Put in plug G1/4

## Floats

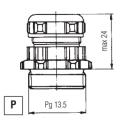




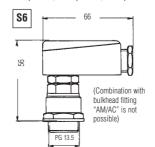


#### **Electrical Connections**

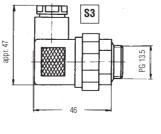
**Pg 13.5 Cable and gland**Cable standard length appr. 1m;
Temperature: -20 ... +80°C



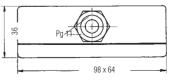
#### Plug connector acc. DIN43651\* 6 poles + earth Temperature: -20...+90°C max switch points: Group 1 : 5, Group 2 : 3, Group 3 : 2, Group 4 : 2



#### 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

8 58 x 64 Pg 11

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

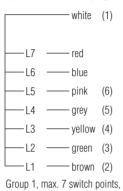
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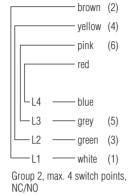
**MULTI POINT** 

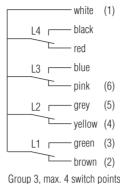
## LEVEL SWITCHES

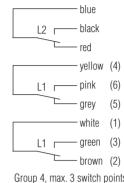
## **Switching Groups**

(Pin correlation of the plug connectors)









Group 3, max. 4 switch points Group 4, max. 3 switch points (SPDT)

#### **Options**

NC/NO

#### Vertical adjustment

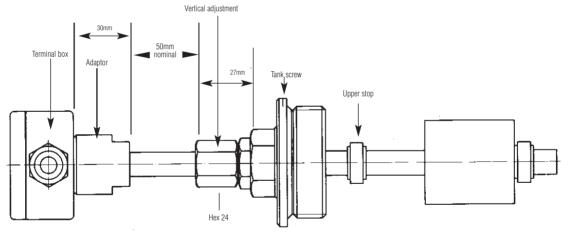
Vertical adjustment is only available with tank screw (T). It allows the stem to be adjusted vertically, limited only by the distance from the top stop ring to the electrical connector less the thickness of the mounting.

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

#### Vertical adjustment



max. pressure: 10 bar



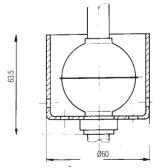
#### Slosh shield

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





# LS-800E Multiple Level Switch check list

Please copy and use as order Customer:	form)		Dimensions	
Order no.:	Qu	antitv:	L <sub>0</sub> = 3000mm max. A = 60mm min. distance to highest switch	1
	(Please complete fully and accurately)	,	point. <b>B</b> = 50mm min, distance between stem an	nd
	(induction place land accordance)		lowest switch point.	
	inMa		<b>C</b> = /5mm min. between two switch points	S
(11.7)	inMa		(One float actuates two switch points)	
1 ( )	Min		Keterence edge (Sealing Face)	ı —
	IVIIII		L4 🛱 /	A A
	De			L
		•		т
	elay, PLC,):			] C
LS-800E 1.	2. 3.	4.	5. 6.	1
I. Mounting direction:	Through tank top Through tank bottom	0 U		<b>T</b> B
2. Mounting:		_	Ħ	<u>.                                    </u>
Tank screw G2"	Brass Stainless Steel	∐ TM □ TC	Bent Stem Option	
Bulkhead fitting	Brass Stainless Steel	AM AC	50	
Put in plug G1/2"	Brass Stainless Steel	EM EC	SPST: Only NO SPDT:  SPST: Add 50mm t Dimension	to 'A'
Flange DN 65/PN16		BCC	alternatively     SPST:	
Put in plug G1/4"	Brass Stainless Steel	DM DC	Only NC	
No Mounting:	Brass Stainless Steel	☐ OM	Level dimensions (Tolerances $\pm$ 3mm) related to the mid of float.	
3. Floats:	Buna N Teflon Stainless Steel	□ N □ T □ C	Distance level NO group 1 NO group 2 NO group 2 NC group 2 SPDT group 3 SPDT group 4	
1. Electrical connection:	Plug connector DIN 43650	S3	L1 =	_
	Plug connector DIN 43651 (Not with Cable gland	AM/AC) <b>S6 P</b>	L2 =	-
	Potted Cable	UC VC	L3 =	_
	Potted Leads Terminal box 6-poles	VL   K6	L4 =	
	Terminal box 12-poles	K12	L5 =	_
5. Switching group:	Group 1	☐ 1 ☐ 2	L6 =	_
	Group 2 Group 3	☐ 2 ☐ 3	L7 =	_
	Group 4	<u> </u>	L0 = ±2mm max 3000 mm	_
6. Options:	Vertical adjustment Brass Vertical adjustment Stainless Steel	VVM VVC	Please specify each non listed part:	
	Slosh Shield	☐ DH		-
	Temperature Switch Bent Stem	TS BS		
				_

Standard Products in **bold**