

Multi Level Switch Series LS

FEATURES

- Wetted parts and floats available in Stainless steel or PVDF or PVC
- Up to 6 independent switch levels
- Available with IP6X protection
- Optional ATEX approved
- Optional with high temperature execution

APPLICATIONS

- Oleodynamic plants
- Liquid stocking
- Industrial vehicles
- Water treatment plants
- Watering plants



with 1 and 2 set points
Level Switch



TECHNICAL SPECIFICATIONS

Number of Setpoints:	Up to 6			
Switch Type:	Reed			
Switch Rating:	SPST			
	AC	DC		
	60 VA	60 W		max. 1,5 A
	70 VA	70 W		max. 3A
	120 VA	120 W		max. 3A
SPDT	3 VA	3 W	max. 0,3 A	
	60 VA	60 W	max. 1 A	
Stem Length:	Up to 3 m			
Head Type:	Hirschmann DIN EN 175301-803 Type C Junction box (Weatherproof, St. steel) Cable see coding table "Head Type" on page 2			
Process Connection:	Flanged Threaded see coding table "Process Connection" on page 2			
Weather Protection:	Up to IP65			

WETTED PARTS

Process Connection:	PVDF (Polyvinylidene fluoride) Stainless steel 316L (1.4404) PVC (Polyvinyl chloride)
Stem:	PVDF (Polyvinylidene fluoride) Stainless steel 316L (1.4404) PVC (Polyvinyl chloride)
Floats:	NBR (Nitrile butadiene rubber) Stainless steel 316L (1.4404) PP (Polypropylene)
Level Stop Rings:	Stainless steel 316L (1.4404)

KEY BENEFITS

- Wide selection of industrial and ATEX approved top housing and wirings
- Precise, reliable and cost efficient
- Easy to install and maintain

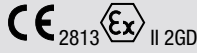
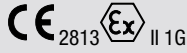
NON WETTED PARTS

Head Type:	Plastic (Polyamide) Stainless steel 316L (1.4404) Casted aluminum see coding table "Head Type" on page 2
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ENVIRONMENTAL SPECIFICATIONS

Temperature Limits: (Ambient)	Standard:	0 °C to 60 °C (32 °F to 140 °F) High and low temperature options available
	ATEX:	up to -60 °C to 80 °C (-76 °F to 176 °F) depending on configuration

APPROVALS

ATEX	Declaration of Conformity
	 Ex db IIC T6 Gb Ex tb IIIC T85°C Db (Ta = -60°C to +80°C) TÜV IT 21 ATEX 031 X
	 Ex ia IIC T6 Ga (Float in Stainless steel) Ex ia IIB T6 Ga (Float in NBR) (Ta = -60°C to +80°C) TÜV IT 21 ATEX 032 X

**Multi Level Switch
Series LS**

ORDERING CODE		EXAMPLE:	LS	N	400	S	25	S1	2	C	250	200NC	NH
Model													
LS	Level Switch		LS										
Head Type													
A	Explosion proof, junction box, Ex II 2G ATEX EEx d IIC T6												
AX	Explosion proof, Stainless steel junction box, Ex II 2G ATEX EEx d IIC T6												
B	Explosion proof, junction box, Ex II 2G ATEX EEx d IIB T6												
IA	Intrinsically safe, Ex II 1G ATEX EEx ia IIC T6												
IAC	Intrinsically safe, sealed cable, Ex II 1G ATEX EEx ia IIC T6												
IAX	Intrinsically safe, Stainless steel enclosure, Ex II 1G ATEX EEx ia IIC T6												
IB	Intrinsically safe, Ex II 1 G ATEX EEx ia IIB T6												
S	Weatherproof, junction box, IP65												
SX	Weatherproof, Stainless steel junction box, IP65												
C	Cable, sealed												
N	Hirschmann DIN Plug DIN EN 175301-803 Type A, IP65			N									
NX	Stainless steel enclosure with Hirschmann DIN Plug, DIN EN 175301-803 Type A, IP65												
P	Cable with gland												
Number of Setpoint													
100	1 level setpoint												
200	2 level setpoint												
300	3 level setpoint												
400	4 level setpoint			400									
500	5 level setpoint												
600	6 level setpoint												
Floats Options													
	Standard floats												
X	Floats modification												
Stem													
D	PVDF (Polyvinylidene fluoride)												
S	Stainless steel 316L (1.4404)					S							
V	PVC (Polyvinyl chloride)												
Process Connection													
06	G 1/8 Male												
08	G 1/4 Male												
10	G 3/8 Male												
15	G 1/2 Male												
20	G 3/4 Male												
25	G 1 Male						25						
25N	1" NPT Male												
25X	G 1 Male, customized												
32	G 1-1/4 Male												
40	G 1-1/2 Male												
50	G 2 Male												
FD	PVDF Flange												
FS	Stainless steel 316L (1.4404) flange												
FV	PVC flange												

Continued at page 3



Multi Level Switch Series LS

ORDERING CODE	EXAMPLE:	LS	N	100	S	25	S1	2	C	250	200NC	XNH
Float Material and Size												
N1	NBR 30x20 mm PN10											
N2	NBR 30x45 mm PN10											
N3	NBR 44x50 mm PN10											
N6	NBR 17,5x25 mm PN4											
N7	NBR 25x15 mm PN4											
P1	Polypropylene 25x15 mm PN4											
P2	Polypropylene 25x25 mm PN4											
P3	Polypropylene 48x45 mm PN4											
S1	Stainless steel 316L 28x28 mm PN10						S1					
S2	Stainless steel 316L 30x36 mm PN15											
S3	Stainless steel 316L 45x55 mm PN12											
S4F	Stainless steel 316L 52x52 mm PN30											
S4J	Stainless steel 316L 52x52 mm PN60											
S7	Stainless steel 316L 30x29 mm PN30											
Electrical Contacts												
1	SPST, 220 Vac 70 W / 70 VA, max. 1,5 A											
2	SPST, 220 Vac 60 W / 60 VA, max. 3 A							2				
3	SPST, 220 Vac 120 W / 120 VA, max. 3 A											
5	SPDT, 220 Vac 120 W / 120 VA, max. 3 A (normally closed standard)											
7	SPDT, 220 Vac 3 W / 3 VA, max. 0,3 A (normally closed standard)											
Wiring												
C	Common circuit								C			
S	Separate circuits											
X	Customized											
Stem Length												
20...3000	Stem length L0 in mm									250		
Setpoint Position (Repeat the product code L1, L2, ... up to L6 and switch function if multiple setpoints are required)												
Setpoint position L1												
20...3000	Setpoint position in mm										200	
Switch function #1												
NC	Normally closed										NC	
NO	Normally open											
Options (If choosing an option(s) must include a "X")												
General options												
HT	High temperature (up to XXX °C)											
NR	Non-tipping float											
RIB	Tilting float											
RIC	Bent option											
max -55°C	Low temperature (up to -55 °C)											
Marking/Tagging												
NH	Stainless steel tagging, wired											XNH
NH1	Stainless steel tagging, extra large (120 mm x 30 mm), wired											
Material Certificate												
CD2	Certificate according to EN 10204/2.2											
MQ	Positive Material Identification (PMI)											



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DIMENSIONS IN MM [INCH]

For reference only, consult Ashcroft for specific dimensional drawings

