DATASHEET

Level Switch
Type LSA

UAD SERVICE + VERTRIEBS UG (HAFTUNGSBESCHRÄNKT)

FUNCTION

The level switch type LSA is designed for versatile applications in shipbuilding and plant engineering. The construction comprises a rugged housing with integrated flange connection in one piece without any seals or welding seams and all welded stainless steel float.

The principle of operation is, one permanent magnet forms part of a float assembly which rises and falls with changing liquid level. A second permanent magnet is positioned within the switch so that the adjacent poles of the two magnets repel each other.
A change of liquid level which moves the float through its permissible travel will cause the float magnet to move and repel the switch magnet to give the snap action switch operation.

The float, test button and screw plug are manufactured 1.4571 stainless steel and consequently corrosion-resistant, durable with good shock and vibration capability. The test button provides a high compressive strength providing positive actuation during operation. Depending on the wiring of the micro switch it is possible to provide system-specific control commands to pumps, solenoid valves or switch relays.

The housing cover is sealed with an O-ring. Due to the factory-mounted and shrunk cable and agglutinated cover protection class IP68 as well. The unit can be modified into an Exd version without the need to remove which simplifies procurement, installation and minimizes stock holding.

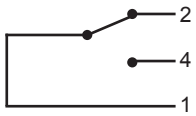
TECHNICAL DATA

materials	
housing	gun metal RG5 oder RG10
float unit	1.4571
flat seal	oil and sea water proofed Novapress
rubber seal	EPDM, NBR70
protection type	IP68 cable gland
approvals	DNV · GL Lloyd's Register Bureau Veritas Russian Register RINA ABS ATEX - IBExU
max. pressure	42 bar (floater)
max. density	0,46 g/cm³
max. temperature ambient temperature	-40°C...+125°C -40°C...+60°C (Exd-version)
mounting position	top or side
electrical connection	cable gland, M20x1,5, IP68
contact mode	SPDT
weight	ca. 3,5 kg

ELECTRICAL DATA

rating	V AC	V DC induktiv	V DC resistive
max. voltage V	bis 250 V	24 V	24 V
max. current A (microswitch)	6 A	2 A	2 A

WIRING DIAGRAM (DIN EN 50005)



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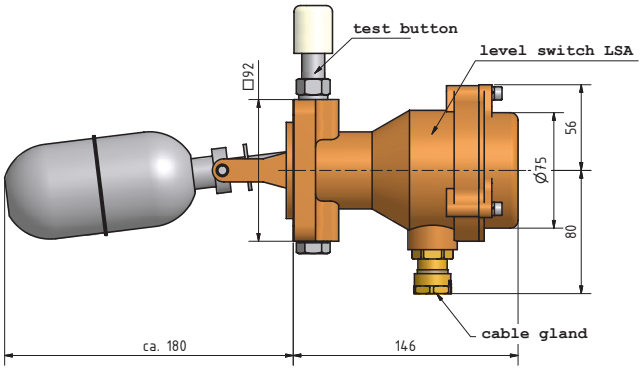
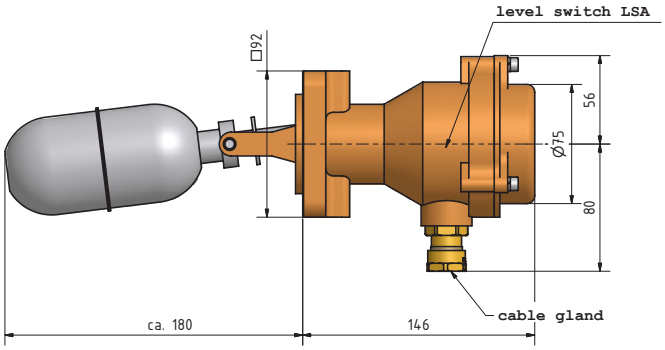
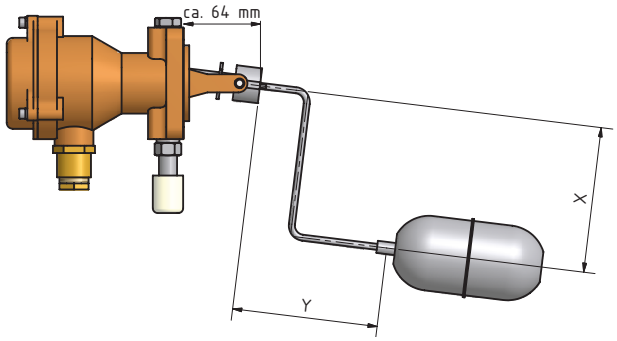
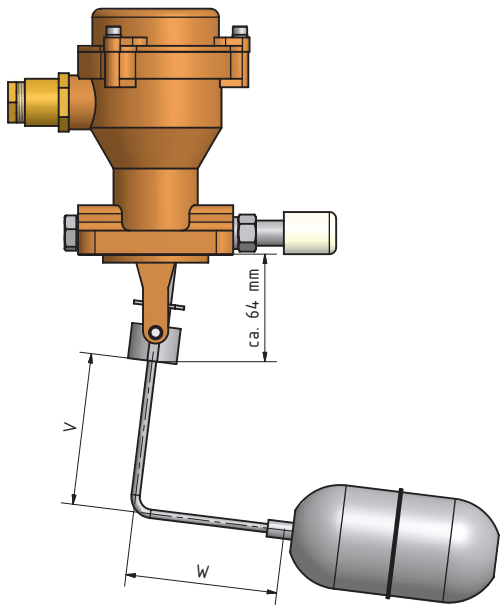
DIMENSIONS









ORDER CODE
LEVEL SWITCH TYPE LSA

for example: LSA 11.01.01.00

with test button for high level without cable	10
with test button for low level without cable	11
with test button for high level with cable	20
with test button for low level with cable	21
without test button without cable	30
without test button with cable	40

standard float unit	01
bent float unit (V + W; max. 760mm)	02
double bent float unit (X + Y; max. 760mm)	03
llong float unit (V max. 760mm)	04
protection skin SB1	05
protection skin SB2	06

standard cable gland IP68	01
Exd cable gland (IIB)	02
Exd cable gland (IIC)	03

without cable	00
with 3 m cable (Standard)	03
with 5m cable	05
with 10 m cable	10
with ... m cable	??

CONTACT

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