



- Pressure: max. 25 bar
- Medium temperature to 250 °C
- Density: > 0.7 kg/dm³
- High switch capacity
- ATEX design
- Approval by "Germanischer Lloyd"
- Connection:
square flange, DIN flange, BSP, NPT
- Material: stainless steel, 1.4571



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Model:
NGS...



Method of Operation

As the level rises and falls the inclination of the float is changed causing a permanent magnet in the float to be deflected which in turn repels a rotatable opposing magnet. This forced snap-action-contact effect operates a micro-switch with a plunger. Even very small changes in level can be detected in this way.

Special advantages

- Secure and wear-free sensitive switching by repelling magnets
- High switch capacity up to 10 A with microswitch
- Very rugged for tough environments
- No regular maintenance necessary
- Medium temperature up to 250 °C
- Wetted parts made of high-quality stainless steel
- No auxiliary power necessary

Application

Control and monitoring liquid levels in open and closed vessels, especially:

- Min. or Max. monitoring of liquid levels
- Monitoring and controlling a continuous liquid level
- when only side installation is possible due to lack of space or considerations of cost
- when a very rugged monitoring device is needed for tough environments
- when hazardous areas or shipbuilding approval is required.

Technical Details

NGS-_1, horizontal mounting

Max. pressure: 25 bar
 Installation position: from side
 Differential: fixed, see diagram

NGS-_3, vertical mounting

Max. pressure: 16 bar
 Installation position: from above
 Differential: adjustable

General

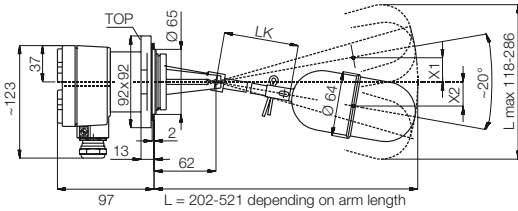
Medium temperature: -20 °C...+250 °C*
 Ambient temperature: -20 °C...+80 °C*
 Min. medium density: > 0.7 kg/dm³
 Wetted parts: stainless steel, 1.4571
 Switch housing: aluminium casting, colour coated
 Flat gasket: Klingerit
 Process connection: square flange, DIN Flange, 2" BSP or NPT
 Switching element: 1 microswitch with 2 switch contacts, changeover function
 Switch capacity: 250 V_{AC}, 10 A
 220 V_{DC}, 0.6 A
 ATEX: 250 V_{AC}, 2.5 A
 220 V_{DC}, 0.3 A
 Electrical connection: M20 x 1.5
 Protection: Standard version: NGS-2...: IP 65
 Underwater version: NGS-4...: IP 68 (max. 20 m WC)
 ATEX-approval: II 1/2 G EEx dme IIC T6...T2
 Weight: approx. 2.5 kg

*Temperature details of ATEX variants

Class	T6	T5	T4	T3	T2
Process temperature	80 °C	95 °C	130 °C	200 °C	250 °C
Ambient temperature	-20...+60 °C	-20...+70 °C	-20...+80 °C	-20...+80 °C	-20...+80 °C

Dimensions

Fixed switch hysteresis, side installation

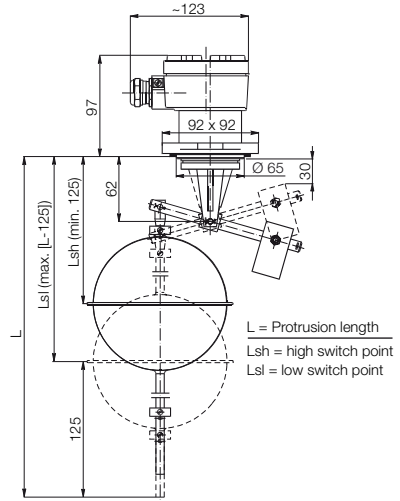


Switching data model NGS-21...

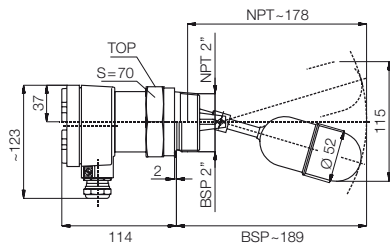
LK = linkage length	0	100	200	300
L = Installation length	202	321	421	521
Lmax = Total swing	118	180	234	286
x1 = upper switch point	7	27	45	81
x1 = lower switch point	16	30	47	43

Note: The data apply to water at 20 °C

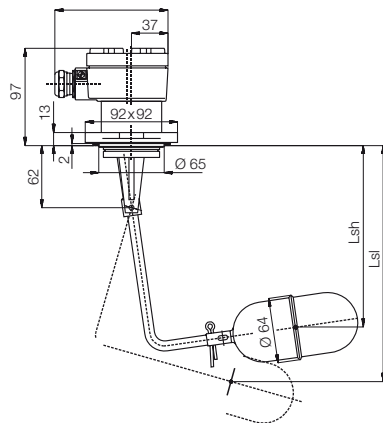
Adjustable hysteresis, installation from above



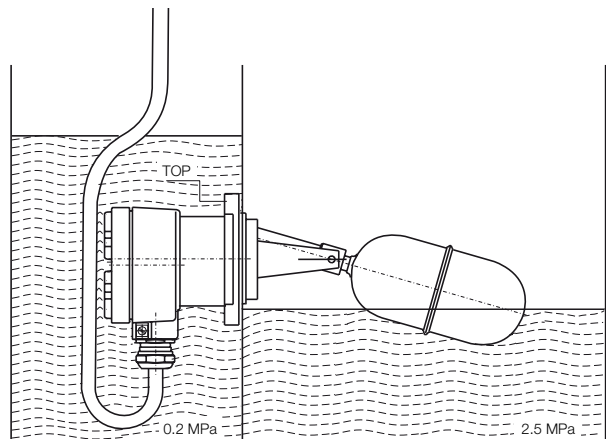
Process connection: BSP or NPT



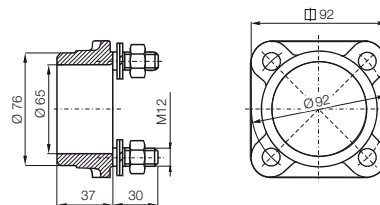
L arm, installation from above



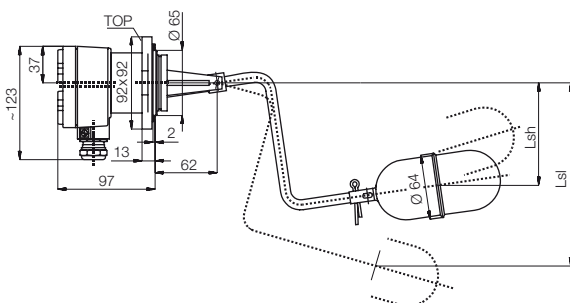
Underwater version



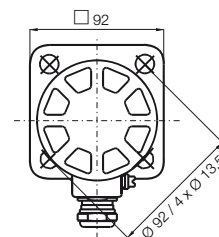
Counter flange NGS-MFF_



Z arm, side installation



Square flange





Order Details (Example: NGS-2 1 0 0)

Model	Housing	Installation type	Process connection	Arm length	Approval
NGS-	2 = standard 4 = underwater	1 = side installation, fixed hysteresis	0 = 92 mm square flange PN 25 B = BSP 2" N = 2 NPT 1 = DN 80, PN 40, steel 2 = DN 100, PN 40, steel 5 = DN 80, PN 40, st. steel 1.4571 6 = DN 100, PN 40, st. steel 1.4571	0 = 0 mm 5 = 100 mm 6 = 200 mm 7 = 300 mm 8* = Z arm, length depending on customer specification	without = GL-approval Ex = ATEX- and GL-approval
	2 = standard	3 = installation from above, adjustable hysteresis	0 = 92 mm square flange PN 25	5 = 1000 mm 6 = 2000 mm 7 = 3000 mm 8* = L arm, length depending on customer specification	

*In case of L- or Z arm: please specify dimensions and switchpoint (Lsh or Lsl) in writing

Accessory: Counter flange

Model	Material
NGS-MFF1	Counter flange, steel 1.7218
NGS-MFF2	Stainless steel, 1.4404