



HECOFILL IR/Namur Safety Level Switch Sensor

Data Sheet

TU46.5010.00 00 02

Exklusiver Partner für  Industrie-Systeme

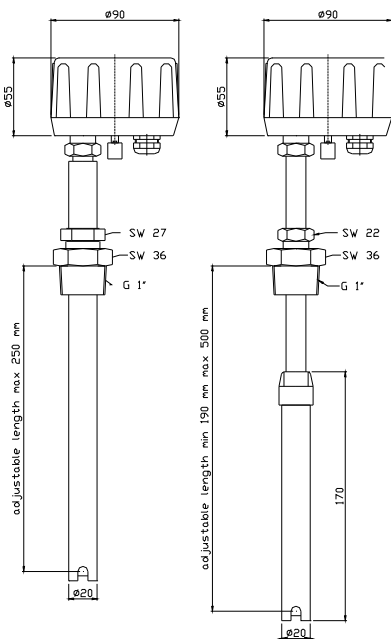
Electro-optical infrared level switch sensor Series HECOFILL IR/Namur

1. Applications

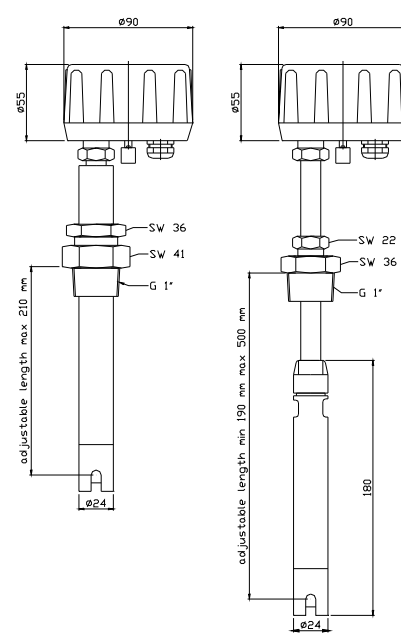
- Monitoring of limit levels of liquids
- Level control / process control / pump control
- Dry run protection
- Safety spilling protection (according VWF / CH)
- Leak detection in tank rooms piping works, man hole pits (according VWF / CH)
- No adjusting or calibration required
- Independent of capacity, density, humidity, conductivity and temperature
- No drift of the switching level
- No moving parts

2. Dimensions / Material

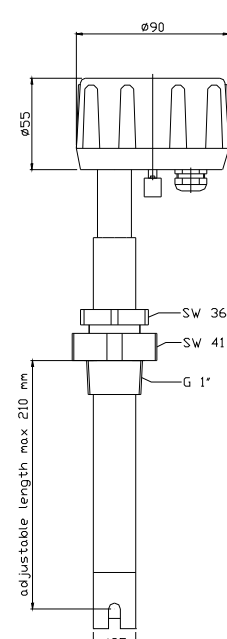
2.1 Aluminium type



2.2 Stainless steel type



2.3 PVC type



Tip:	Glass
Sensor tube:	Aluminium
Protection case:	Aluminium
Seal:	Viton
Head housing:	G-AlSi13 red

Tip:	Glass
Sensor tube:	Stainless steel
Protection case:	Stainless steel
Seal:	Viton /Chemratz
Head housing:	G-AlSi13 red

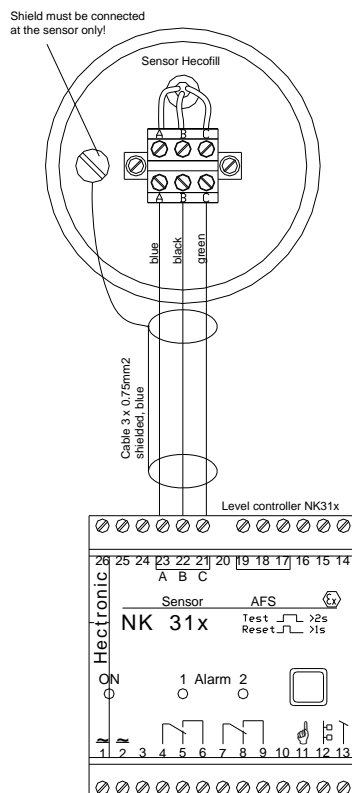
Tip:	Glass
Sensor tube:	PVC
Protection case:	PVC
Seal:	Chemratz
Head housing:	G-AlSi13 red

3. Installation

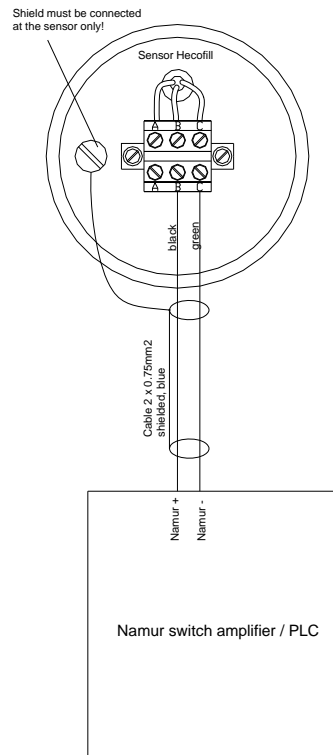
	horizontal and vertical
Fitting	Clamp screw / grip ring fitting G1" BSP
Cable gland	Cable gland M16 x 1,5
Electrical connectors	Screw terminals max. 4mm ² . Earth connection at sensor side only! A (output): blue / B (Power supply): black / C (ground): green
Type of protection	according DIN 40050/IEC 144: IP65
Operating temperature	<u>Hazardous areas</u> : -20°C up to +60°C / <u>Safe areas</u> : -30°C up to +80°C
Operating pressure	max. 6 bar (87 psi)

4. Connection diagram

4.1 IR Interface



4.2 Namur Interface



5. Data

Controller connection	to certified intrinsically safe current loops only, e.g. Hectronic Level Controller NK311/312/313			
Sensor Current Loop, maximum values:	AC:	U _{max} : 17 VDC, P _{max} : 93.5 mW	I _{max} : 22 mA	Ci: ~0 Li: ~0
	BC:	U _{max} : 17 VDC P _{max} : 425 mW	I _{max} : 100 mA	Ci: ~0 Li: ~0

6. Approvals

Approvals	II 1/2 G EEx ia IIC T4 / SEV 05 ATEX 0116 X Safety spilling protection VWF* (CH) Overfill protection WHG** (D) Leak detection system VWF* (CH)
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7. Order instructions

Type	Code.	Interface	Material	Seal	Length
Hecofill HB 0250-54	078.30.000	IR	PVC	Chemratz	250mm
Hecofill HB xxxx-54	078.30.001	IR	PVC	Chemratz	special length
Hecofill NB 0250-54	078.31.000	Namur	PVC	Chemratz	250mm
Hecofill NB xxxx-54	078.31.001	Namur	PVC	Chemratz	spezial length
Hecofill HB 0250-10	078.20.000	IR	Aluminium	Viton	250mm
Hecofill HB xxxx-10	078.20.001	IR	Aluminium	Viton	special length
Hecofill NB 0250-10	078.21.000	Namur	Aluminium	Viton	250mm
Hecofill NB xxxx-10	078.21.001	Namur	Aluminium	Viton	special length
Hecofill HB 0250-24/20	078.10.000/3	IR	Stainless steel	Chemratz/Viton	250mm
Hecofill HB xxxx-24/20	078.10.001/4	IR	Stainless steel	Chemratz/Viton	special length
Hecofill NB 0250-24/20	078.11.000/3	Namur	Stainless steel	Chemratz/Viton	250mm
Hecofill NB xxxx-24/20	078.11.001/4	Namur	Stainless steel	Chemratz/Viton	special length