Alarm / Magnetic level switch ANV TYPE ...





CHARACTERISTICS

- Simple
- Reliable
- Robust
- Precise
- Large range of construction :
- Direct mounting on tank
- Mounting on separate chamber
- Float version
- Displacer version
- Multi-level control

SUMMARY

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USE

Alarms or vertical level switch (Types ANV) are designed to detect level variation in the vessels or tanks containing liquids.

The alarm contacts commute electrical circuits for operating relays, pumps, valves, ... or control lights or audio warnings.

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They can be used on current liquid, corrosive or dangerous; with operating conditions particulally severe for the main industrial process.

PRINCIPLE

A stainless steel float materials follows the variations of liquid level control and transmits its movement to a control rod equipped with an emitter. The set rod + emitter moves within a non-magnetic guide tube and activate (magnetically) through the wall, the change of contact status protected by a waterproof case. Models are mounted vertically ANV, either directly at the top of tank (types ANV-T) or on the side through a independent chamber with two nozzles connectin side or bottom (ANV-C type)





TYPE OF CASE HOUSING

Standa 2 models (dependin 1 switcht: 2 or more	ard case-housing – IP65 of height housing ig on number of contacts) standard housing a switchs: high housing					
CODE H5 H10	DESIGNATION Lengthened housing (+140mm) Male plug SOURIAU 3 pins 8N45111125					
H12 H16 HX	Female plug SAIB 5 pins NO25 105 Female plug SOURIAU 3pins 8N45118551 Female plug SAIB 3 pins NU25 103 Special construction	Waterproof case housing IP65, enabling the adjustment of the alarm switches.Electrical cable entry with cable gland, connectors, connections according to the needs (360° orientation)				
\wedge	Please locate type of base is mounted on the case and choose plug according to your site request. For eventual replacement of switch, is strongly advice to precise type of base mounting on our model.	Material : Base: Stainless Steel Cover : Stainless Steel Protection rating IP65				

TYPE OF SWITCHES



Waterproof micro-switch R6674-R8 (ABB Control/ PETERCEM)

Caractéristiques

Caracteris	แน่นธุร						
I (A)	220V≈	110V≈	48V≈	24V≈	110V=	48V=	24V=
Résistive	2,5A	3A	5A	7A	1A	3A	4A
Inductive	1,5A	2A cos@≥0.5	3A cos@ ≥0.5	5A cos@≥0.5	0,5A	1,8A	2,5A

Operating temperature : -30°C à + 85°C (limit +85°C)

Dielectric strenght 1500V between boundary and and earthed

Cumulative dose irradation 2x10⁸ rad

CHOICE AND CHARACTERISTICS OF CONNECTIONS



CHOICE OF FLOATS OR DISPLACER

Nota: the characteristics mentioned hereafter are valid only if the chamber receiving the float or the mass, has harmonized characteristics.

Type of float or		CHARACTERISTICS											
displacer	CODE	Mini sı gravity a to le	pecific ccording evel	Standard operating pressure (bar) according to max. operating temperature C°							Test pressure at 20°C		
													·
FORGER/MACHINED WEL	DED CHAMBER OR TOP		NG										
		Н		Temp°C >>>	20	50	100	150	200	250	300	350	
Н	M3	< 250	0,7	Standard	27	26	23	21	19	17.5	16	15	Test pres=Op.pres X1.5 (<=40 bar)
	Material : SS 316L	< 500	0,75	Maximum	33	31.5	28	25	23	21	19.5	18	Test pres=Op.pres X1.2 (<=40 bar)
2 Ø90ép0.5		< 1000		Level(s) show	uld be	indica	ted be	fore o	rder.				_
TOP MOUNTING WITH DIS	PLACER												
		Н		Temp°C >>>	20	50	100	150	200	250	300	350	
	H M11 Material : SS 316L	< 20000	1	Standard	33	31.5	28	25	23	21	19.5	18	Test pres=Op.pres X1.5 (<=50 bar)
			1	Maximum	41	38	34	29.5	28	25.5	23.5	21.5	Test pres=Op.pres X1.2 (<=50 bar)
Ø76×66 ép2.	1 to 5 masses On cable.			Level	(s) sh	ould be	e indic	ated b	oefore	order.			

GENERAL CODIFICATION

ANV	Level alarm vertical mounting											
	T-I-	Top version Stainless steel case housing										
	CF-I-	Forged chamber										
	CM-I-	Machined welded chamber										
	I	СР	CP Piston emitter (for switch functionning with)									
			SS	SS Stainless Steel chamber								
				+++	Nominal pres	Nominal pressure of connection (16, 20)						
				-	C7	C7 Top construction (PN16 DN100)						
	1	- 1		1	CF0	Bottom-side construction 1" SW						
1						М	M Float or displacer code (x Nb of displacer) (page3)					
					I.		H Housing code (page 2)					
					I.	1	I S14 Contact type R6674-R8 (page					
			1	1	I.	1	I.		D	Documents Code		
▼	▼	▼	▼	▼	▼							

TY

PRESET PRODUCT CODE

PESOF MARKING	DIAGRAM
ANVCFI	50466-134
ANVCMI	50466-135
ANVTIF-xxxx	50466-137
ANVTIF-xxxx/xxx	50466-138
ANVTI1M -H ou L	50466-140
ANVTI2M -H/L	50466-139
ANVTI2M -H/HH	a
ANVTI2M -L/LL	a
' ANVTI3H -H/ L/LL	50466-136
ANVTI3M -L/H/HH	a

H__: H10 ou H15

Level must be defined before order.

DOCUMENTS OPTIONS (on request)

- **D0** Material certificate 3-1.B (must be required before order)
- D1 MR01-75 NACE compliance certificate
- D2 Welding files (MOS+QMOS+Welder qualif.)
- D3 Calculation note under CODAP (for machined welded chamber)
- D6 Dye penetrant test for welds (Internal from Houdec Instrument)
- D7 Dye penetrant test for welds (Certified Organism)
- D8 10% radiography for buttwelds
- D9 10% radiography for buttwelds

ESSENTIALS INFORMATIONS REQUIRED FOR PLACING AN ORDER

- Nature of the liquid to choose the compatible materials
- Specific gravity of the liquid (if interface: precise specific gravity of both liquids)
- Maximum operating temperature and pressure (and design if exists)
- Switching level and the way of (up or down)
- Dimensions and shapes of connecting systems on tank

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