

FLOW SWITCH AND INDICATOR

AI.OF100 Series



TECHNICAL DATA

Piston type for high viscosity

Fluid: water, oil, other liquid and Gases

Flow Range: 40-30,000 l/h (at Water); 1-740 Nm³/h (at Air)

Accuracy: +/-3% F.S on request +/-2.5% F.S

Size: 1/4" - 2 1/2"

Connection Type: NPT, Flange Type

Working Temp.: -40 to 180°C

Working Pressure: 30 kg/cm²; option: 100 kg/cm² for 1" or less, option: 200 kg/cm² for 1 1/2" or bigger

Protection Class: IP66, Ex. proof

Housing Material: NS, CS, MS type-Aluminium Alloy, ES type-SS316

Lens Material: Safety Glass

Mounting: Vertical and Horizontal

Material: Wetted Parts SS316; Teflon lining float for Gases application

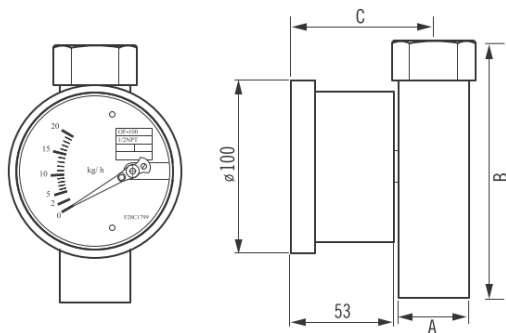
Alarm Switch: Micro switch, Inductive switch available

DIMENSIONS

IP68

ES Type

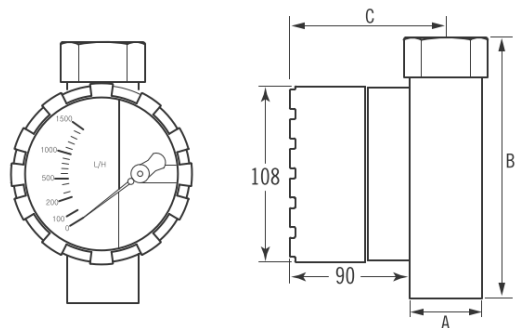
Housing Material: SS316



IP66

MS Type

Housing Material: Aluminum alloy

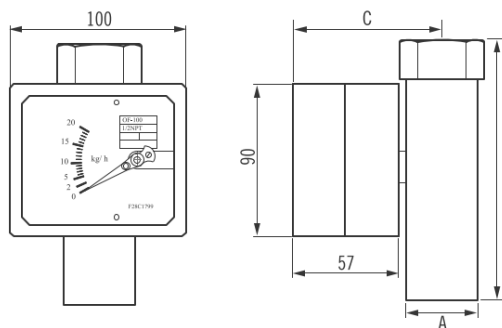


unit=mm

IP66

CS, NS Type

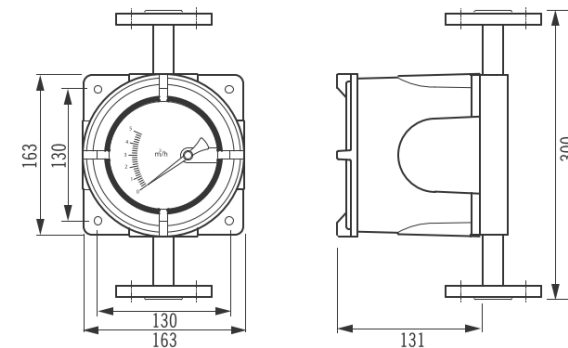
Housing Material: Aluminum alloy



Explosion Proof

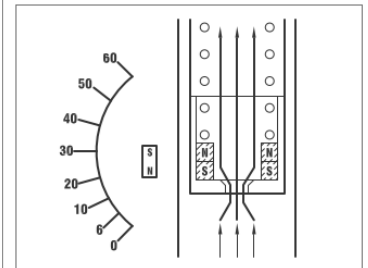
Housing Material: Aluminum alloy, SS316 available

- Explosion Proof Certificate on Housing Only
- Taiwan Explosion Proof Certification



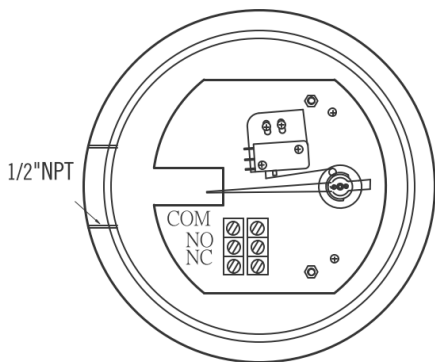
unit=mm

Principle



ALARM/ANALOG OUTPUT

OF100-MS (Micro Switch)



Adjustable Micro Switch, Series OF100-MS

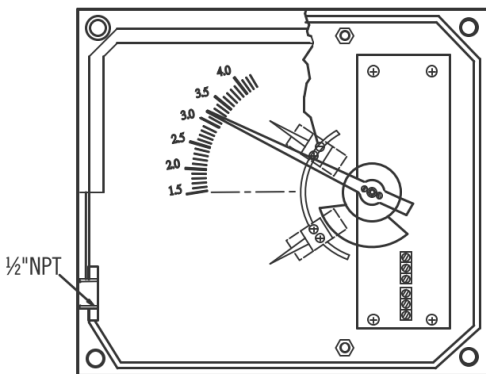
1 adjustable alarm contact, or 2 adjustable alarm contact on request

Load: 5A/125VAC, 5A/250VAC, 2A/30VDC

Temperature: -25°C ~ +70°C (AMB)

Hysteresis: $\pm 10\%$ F.S (Dead Band)

OF100-CS (Inductive Switch)



Adjustable inductive alarm switch

Hysteresis: $\pm 2\%$ F.S (Dead Band)

Inductive sensors slotted type:

3.5mm slot switch

DC. voltage 2 wire's to DIN19234 (NAMUR) for use in hazardous areas.

- Power supply: 8 Vdc (Ri.approx. 1k Ω)
- Current consumption: Active face uncovered 3mA
Active face covered 1mA
- Ambient temp: -25°C ~ +70°C

Isolated barriers output relay for inductive sensor:

- Rail mounting
- Control circuit EEx ia IIC
- EMC acc to NAMUR NE21
- Contact loading 250 VAC 2A SPDT 40 VDC 2A

1 adjustable alarm

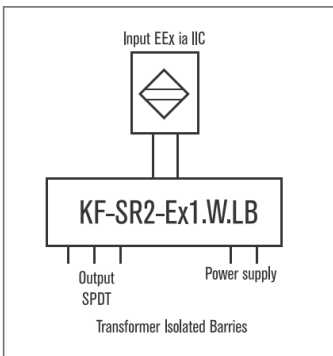
Contact setting point should be within 20% to 100% of F.S

For 24VDC: KFD2-SR2-Ex1.W
115VAC: KFA5-SR2-Ex1.W
230VAC: KFA6-SR2-Ex1.W

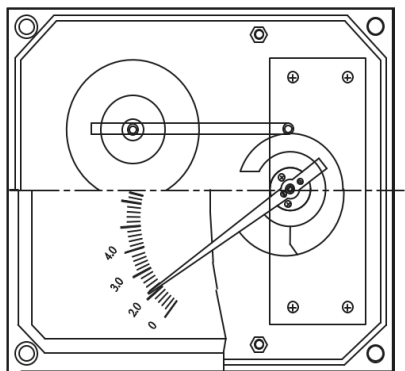
2 adjustable alarm

The second setting point should be a gap 40% from first setting point.

For 24VDC: KFD2-SR2-Ex2.W
115VAC: KFA5-SR2-Ex2.W
230VAC: KFA6-SR2-Ex2.W



OF100/GT (Analog Output)



Electric Transmitter OF100/GT

Analog output available: 4~20mA (2 wire)

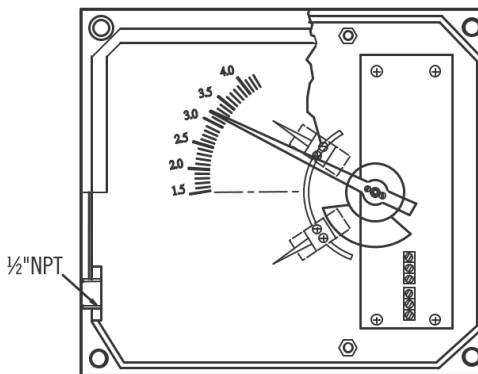
No Alarm Switch Available

Effective range within 20% to 100%

Power supplier: 24V dc

Temperature: -25°C ~ +70°C (AMB)

OF100-RS (Reed Switch)



Alarm Switch:

one or two setting points, form A bistable type (N.O. type)

Hysteresis:

±15% of full scale (Dead Band)

Switch Rating:

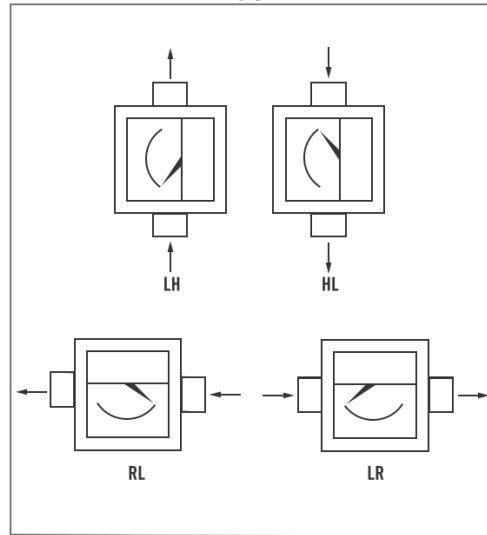
AC 125V 0.5A / DC 100V 10W / Max. DC 250V<40mA

1 adjustable alarm

Contact setting point should be within 20% to 100% of F.S.

STANDARD SCALES and FLOW DIRECTION TYPE

Tube	L/H Water 20°C	NM³/H Air 0°C 1.013bar	A	B	C	BSP/ NPT
OF106	40 ~ 210	1 ~ 5		150		¼" & ½"
OF107	60 ~ 330	1.5 ~ 7.5		150		¼" & ½"
OF108	70 ~ 400	1.6 ~ 8		150		¼" & ½"
OF109	120 ~ 650	3 ~ 15		150		¼" & ½"
OF110	160 ~ 800	4 ~ 20		150		¼" & ½"
OF111	190 ~ 950	4.8 ~ 24		150		¼" & ½"
OF112	300~1500	6.4 ~ 32		150		¼" & ½"
OF113	200~1000	8 ~ 40		150		¾"
OF114	350 ~ 1900	10 ~ 50		150		¾"
OF115	500 ~ 2700	13 ~ 65		150		¾"
OF116	700 ~ 3500	18 ~ 90		150		1"
OF117	1200 ~ 6000	20 ~ 150		150		1"
OF118	1000 ~ 5000	20 ~ 150		160		1½"
OF119	2000 ~ 10000	23 ~ 175		160		1½"
OF120	3000 ~ 15000	70 ~ 350		160		1½"
OF121	3200 ~ 16000	100 ~ 500		160		2"
OF122	3200 ~ 16000	50 ~ 400		160		2½"
OF123	6000 ~ 30000	140 ~ 740		160		2½"



ORDERING INFORMATION

OF100	Code	Type	Code	Housing Protection / Material
SIL2 Certified	NS	Indicating only (Aluminum alloy)	A	Weather proof type, IP66 / IP68
	ES	Indicating only (SS316)	C	(Ex. Certificate on Housing only) / Aluminum alloy Class I, Groups B, C & D; Class II, Groups E, F & G; NEMA 4, 7, 9
	GS	CS With Inductive Switch	D	(Taiwan Explosion Proof Certification) / Aluminum alloy Ex d IIB + H2 T6 Gb
		MS With Micro Switch	D1	(Taiwan Explosion Proof Certification) / SS316 Ex d IIB + H2 T6 Gb
		RS With Reed Switch	X	(Europe Union ATEX Certification) / Aluminum alloy II 2 G Ex db IIB + H2 T6 Gb Ta -20°C to +60°C
	GT	Indicating+4~20mA (no alarm switch available)	G	(China Explosion Proof Certification) / Aluminum alloy Ex d IIB + H2 T6 Gb
	GTA	Hall Sensor Type / Indicating + 4~20mA (no alarm switch available)		
	GTH	HART Type / Indicating + HART (no alarm switch available)		
		Code Switch		
		O Without alarm switch		
		C1 One inductive alarm switch C2 Two inductive alarm switches		
		M1 One micro alarm switch M2 Two micro alarm switches		
		R1 One reed switch		
		Code Body Material		
		A SS316 B Option		
		Code Connection Type		
		(O) Thread Connection		
		(5) JIS 5K (10) JIS 10K (20) JIS 20K		
		(15) ANSI 150# (30) ANSI 300#		
		(40) ANSI 400# (60) ANSI 600#		
		(T) Other: _____		
		Code Connection Size		
		(1) ¼" (2) ½" (3) ¾" (4) 1"		
		(5) 1½" (6) 2" (7) 2½"		
			Code Flow Direction	
			(O) LH (5) HL (10) RL (20) LR	
			Code Fluid	
			(G) Gas (O) Oil (L) Liquid	
			Code Range	
			S Standard Range	
			Code Conduit	
			(N) Without	
			(1) ½"NPT(F) (2) ¾"NPT(F)	
			CE Mark Request : If stamp the CE2810 mark is necessary, please consult with the manufacturer.	
OF100				Complete Ordering Code

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Le caratteristiche dichiarate possono cambiare senza alcun preavviso



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Company with
Certificate of Quality
System ISO 9001:2015
Cert n°38785/19/S