

GE-316 Series Paddle Flow Switches



Explosion Proof Flow Sensor

Description of GE-316 Anti Explosion Paddle Flow Switch

GE-316 Paddle Flow Switch is specially designed for the Flow Monitoring of Water Source, Water-Loop Heat Pump Air Conditioning Systems and Heat Pump Water Heater. Nickle plated body, smart design, Much lower price. This paddle water flow switches is produced as the Explosion Proof standard, could be used in the anti explosion environment. International Protection could be IP68 (Optional).

The switches are tested in accordance with vibration test "IEC 68-2-6", test Fc (acceleration 10 G; below cross-over frequency 57 to 62Hz; amplitude 0.75 mm; frequency range 10 to 2000 Hz, duration 90 minutes). Such a vibration will not cause an open switch to close. Shock test "IEC 68-2-27", test Ea (peak acceleration 500 G, half sine-wave; duration 11 ms). Such a shock will not cause an open switch to close.

Character of GE-316 Explosion Proof Paddle Flow Switches

- * Good repeatability
- * Low pressure loss
- * Dirt resistant
- * Anti Explosion
- * Nickle Plated Body
- * CE UL certification
- * Hermetic separation of electrical and hydraulic components

Specification of GE-316 Explosion Proof Paddle Flow Switches

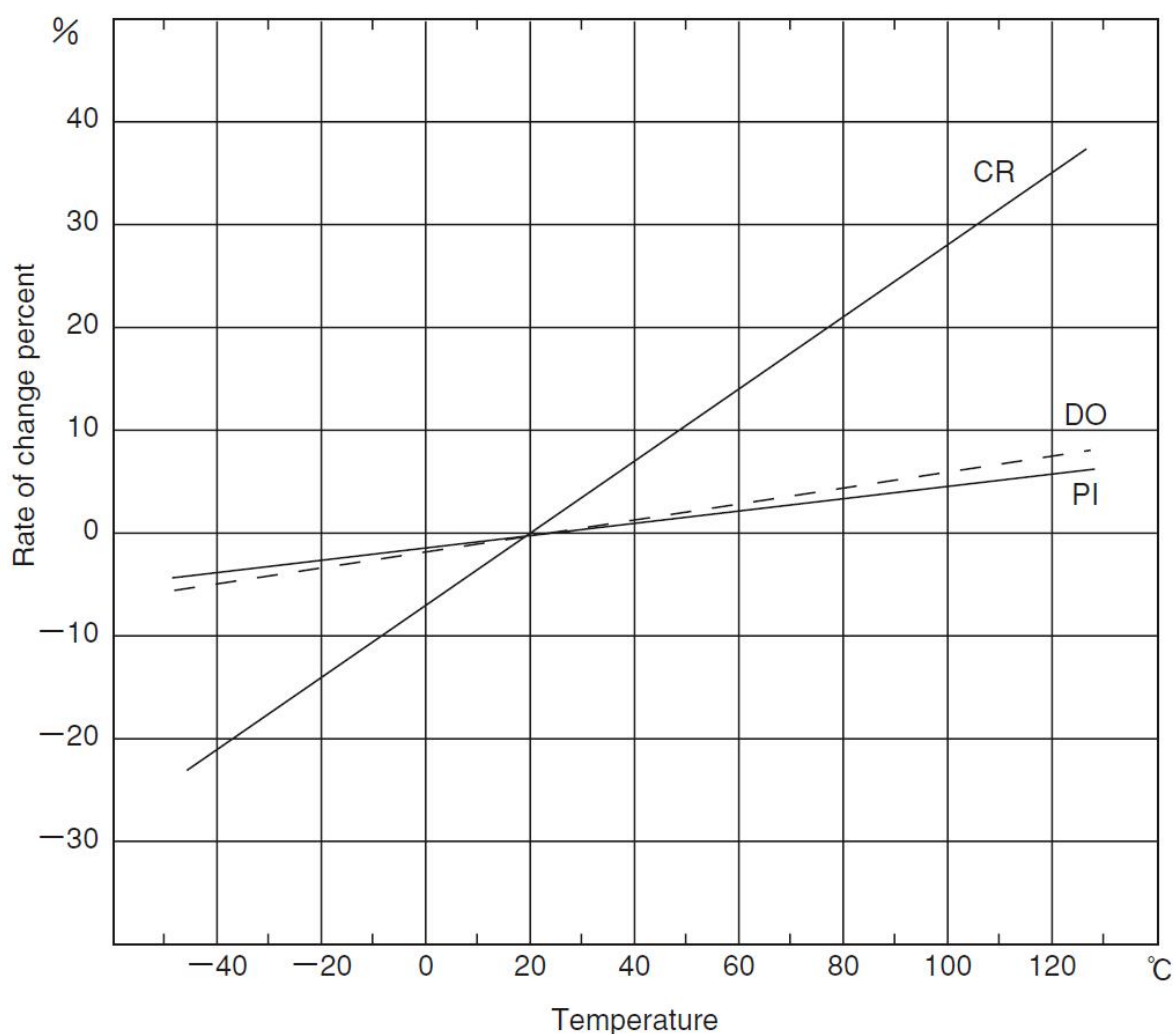
- * Substance Temperature -45C ~ 125 C
- * **Work Voltage: 12V-24V DC**
- * Max Voltage: 350V DC; 300V AC
- * Max Switch Current: 1.0A
- * Max Carry Current: 2.5A
- * Contact Rating: 70VA
- * Average Pressure Loss: 0.01bar at Qmax.
- * Hysteresis: depending on switch value, Minimum 0.7 l/min.
- * Metering Substances: Oil, Water, Sea Water, Gas, Air
- * Max Pressure: 25bar (40bar could be custom-made)
- * Pipe Size DN10~DN80
- * Materials Brass and Stainless Steel

Model Selection of GE-316 Explosion Proof Flow Switch

Type	015	M		IP65	Description
GE-316					Explosion Proof Flow Switches
	008				Pipe Connection G1/4"
	010				Pipe Connection G3/8"
	015				Pipe Connection G1/2"
	020				Pipe Connection G3/4"
	025				Pipe Connection G1"
	032				Pipe Connection G1+1/4"
	040				Pipe Connection G1+1/2"
	050				Pipe Connection G2"
	065				Pipe Connection G2+1/2"
	080				Pipe Connection G3"
	108				Pipe Connection NPT1/4"
	110				Pipe Connection NPT3/8"
	115				Pipe Connection NPT1/2"
	120				Pipe Connection NPT3/4"
	125				Pipe Connection NPT1"
	132				Pipe Connection NPT1+1/4"
	140				Pipe Connection NPT1+1/2"
	150				Pipe Connection NPT2"
		M			Male Thread
		F			Female Thread
			NO		Normal Open
			NC		Normal Close
				IP65	Protection Grade IP65
				IP68	Protection Grade IP68

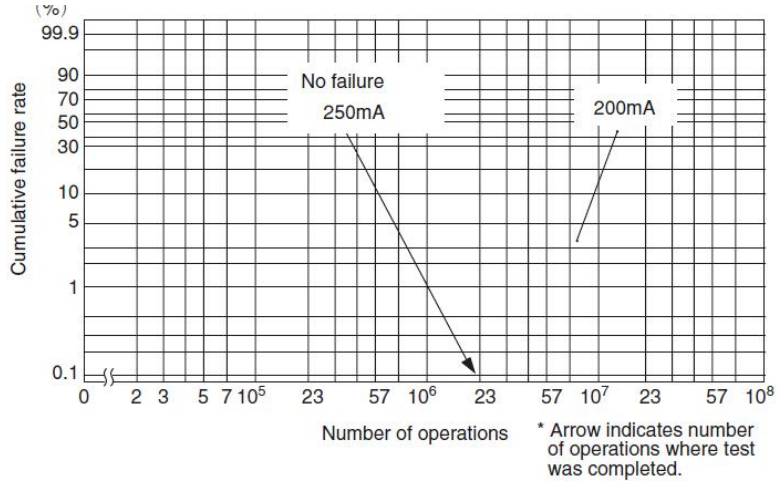
Electrical Characteristics:

Parameter	Rated value	Unit
Pull-in Value (PI)	20~60	AT
Drop-out Value (DO)	6min	AT
Contact resistance (CR)	100	mΩ
Breakdown voltage	600 min (PI ≥ 35)	VDC
	500 min (PI 20 to 35)	VDC
Insulation resistance	10 ¹⁰ min	Ω
Electrostatic capacitance	0.5max	pF
Contact rating	50	W
	70	VA
Maximum switching voltage	300AC	V
	350DC	V
Maximum switching current	DC0.7/AC0.5	A
Maximum carry current	2.5	A

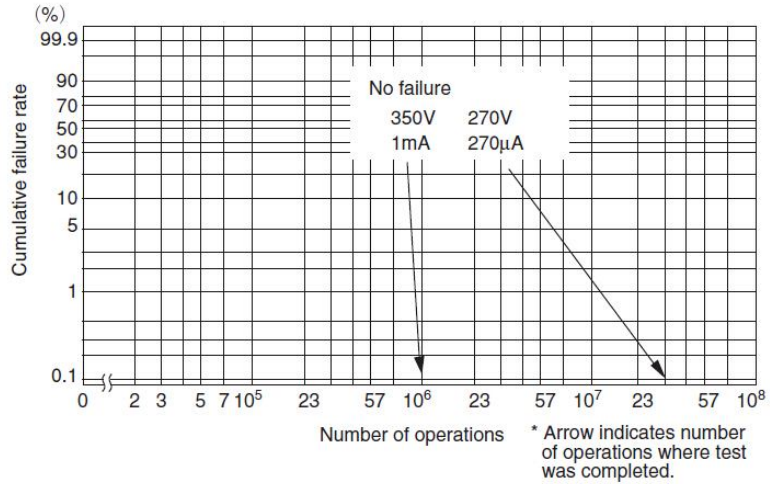
Temperature characteristics:

Life Test of GE-316 Paddle Flow Switch:

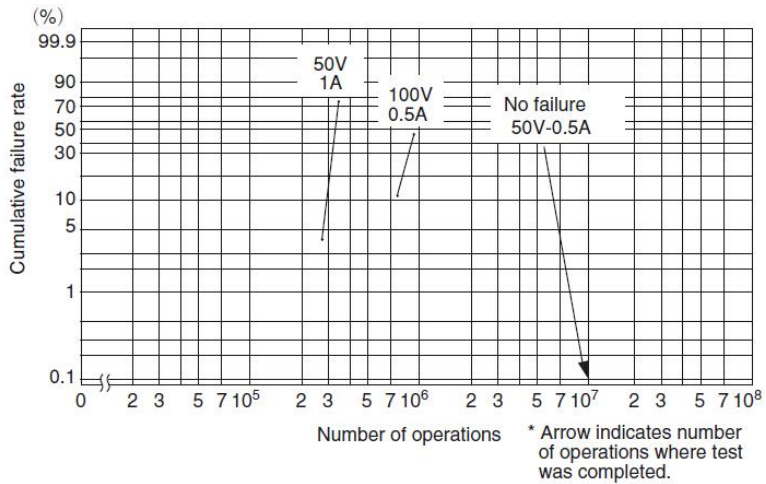
Load conditions
 Voltage: 200VAC
 Current: 200mA , 250mA
 Load: Resistive load



Load conditions
 Voltage: 350VDC, 270VDC
 Current: 1mA, 270µA
 Load: Resistive load



Load conditions
 Voltage: 100VDC, 50VDC
 Current: 0.5A, 1.0A, 0.5A
 Load: Resistive load



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