

METAL TUBE FLOW METER BR250S – SPRING TYPE



Vertical Flow Direction



Horizontal Flow Direction

Technical Data

BR250S for high flows of gas, liquid, steam and oil

Case Material: Aluminum alloy case with paint; SS316 available

Body Wetted Parts Material: SS316, others on request

Indication via magnetic coupling (no sealed)

Lens Material: Safety Glass

Scales Calibrated: in l/h, m³/h, kg/h, %, etc.

Flow Rates For:

- Water: 30 l/h up to 60,000 l/h (special ranges on request)
- Air: 0.8 Nm³/h up to 750 Nm³/h (special ranges on request)

Connection Type: Only Flange type

Connection Size: ½"~4"

Mounting: Vertical and Horizontal available

Mounting Length: 250mm standard; Connection size bigger than 3", mounting length is 300mm; 300mm for explosion proof

Protection Class: IP65 or Explosion proof, Class I, Groups B, C & D; Class II, Groups E, F & G; NEMA 4, 7, 9

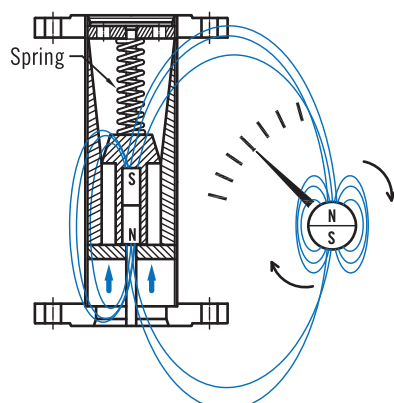
Accuracy: ±2.5% F.S

Max. Pressure: 40 kg/cm² (standard); Option: up to 100 kg/cm²

Temperature: -50°C to +200°C (300°C Option)

Alarm Switch: Micro switch, Inductive switch, Reed switch available

Principle

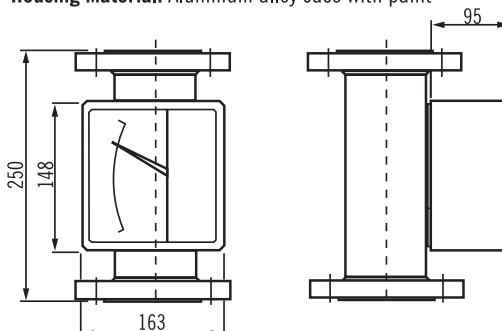


Dimensions-mm

IP65

Case Type: (A-1) Rectangle Bolt Tight Type

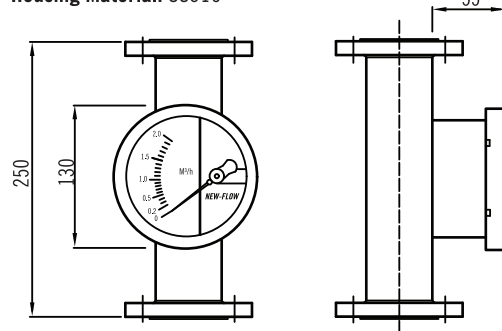
Housing Material: Aluminum alloy case with paint



IP65

Case Type: (B-1) Round Bayonet Ring Type (only for indicating)

Housing Material: SS316



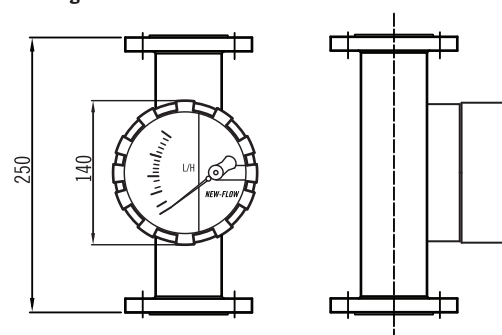
IP65

Case Type: (A-2) Round Screw Tight Type

Housing Material: Aluminum alloy

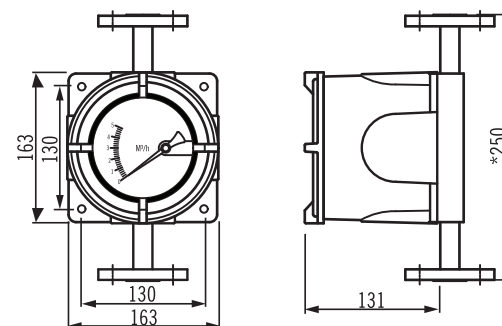
Case Type: (B-2) Round Screw Tight Type

Housing Material: SS316



Explosion Proof

Class I, Groups B,C & D; Class II, Groups E,F & G; NEMA 4,7,9

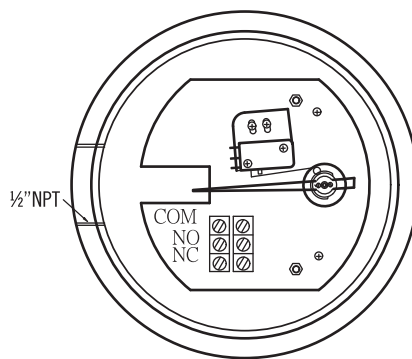
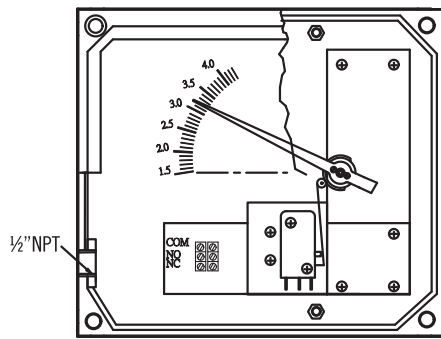


*Mounting length: 250mm standard

Connection size bigger than 3", mounting length is 300mm.

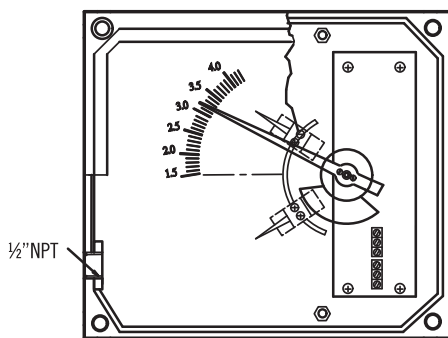
Alarm / Analog Output

BR-250S/GS-M (Micro Switch)



Adjustable Micro Switch, Series BR250S/GS-M
1 adjustable alarm contact
Load: 5A/250VAC/125VAC/30VDC
Temperature: -25°C ~ +100°C (AMB)
Hysteresis: ±10% of full scale

BR-250S/GS-R (Reed Switch)



Alarm Switch: One or Two setting point, form A bistable type (N.O type)
Switch Rating: AC 125V 0.5A / DC 100V 10W / Max. DC 250V<1mA

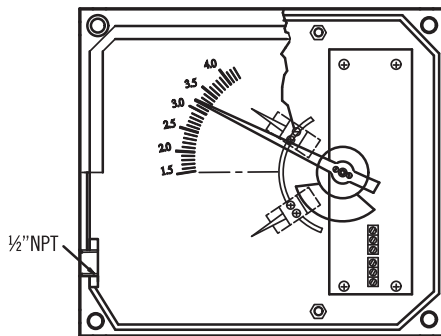
1 adjustable alarm

Contact setting point should be within 10% to 100% of F.S

2 adjustable alarm

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

BR-250S/GS-C (Inductive Switch)



Adjustable inductive alarm switch

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. 1kΩ)
- Current consumption: Active face uncovered 3mA; Active face covered 1mA
- Ambient temp.: -25°C ~ +100°C

Isolated barriers output relay for inductive sensor:

- Rail mounting
- Control circuit EEx ia IIC
- EMC acc to NAMUR NE21
- Contact loading 253 VAC 2A SPDT 40 VDC 2A

1 adjustable alarm

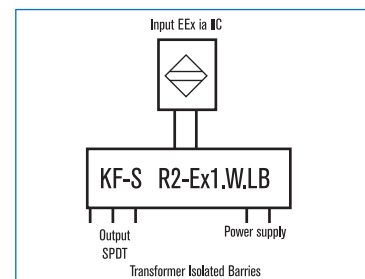
Contact setting point should be within 10% to 100% of F.S

For 24VDC: KDF2-SR2-Ex1.W
115VAC: KFA5-SR2-Ex1.W
230VAC: KFA6-SR2-Ex1.W

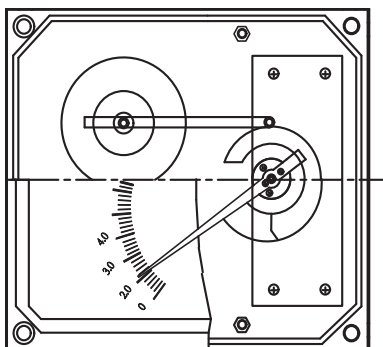
2 adjustable alarm

The second setting point should be a gap 65% from first setting point.

For 24VDC: KDF2-SR2-Ex2.W
115VAC: KFA5-SR2-Ex2.W
230VAC: KFA6-SR2-Ex2.W

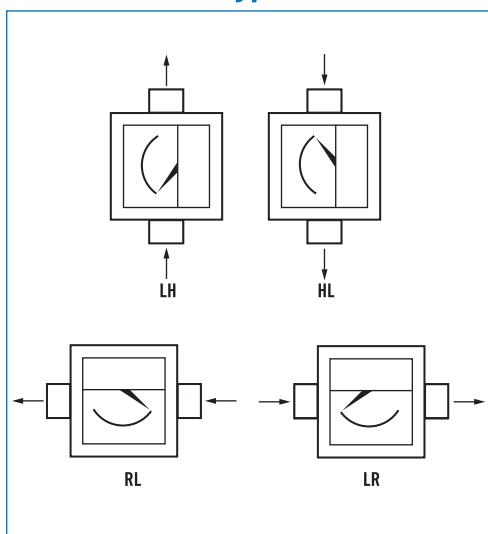


BR-250S/GT (Analog Output)



Electric Transmitter BR-250S/GT
Analog output available: 4~20mA (2-wire)
No Alarm Switch Available
Power Supplier: 24VDC
Temperature: +25°C ~ +100°C (AMB)

Flow Direction Type



Standard Scales

Tube	L/H 20°C Water	NM ³ /H Air 20°C 1.013bar	Pressure Loss psig	Connection	Accuracy
BR2501S	30 ~ 300	0.8 ~ 8	≤3.5	1/2"	±2.5% F.S
BR2502S	40 ~ 400	1 ~ 10	≤3.8	1/2"	±2.5% F.S
BR2503S	50 ~ 500	1.2 ~ 12	≤3.7	1/2"	±2.5% F.S
BR2504S	70 ~ 700	1.7 ~ 17	≤3.6	1/2"	±2.5% F.S
BR2505S	80 ~ 800	2 ~ 20	≤3.8	1/2"	±2.5% F.S
BF2506S	100 ~ 1000	2.7 ~ 27	≤4.0	1/2"	±2.5% F.S
BF2507S	150 ~ 1500	4 ~ 40	≤4.2	1/2"	±2.5% F.S
BF2508S	180 ~ 1800	5 ~ 50	≤4.5	1/2"	±2.5% F.S
BF2509S	150 ~ 1500	4 ~ 40	≤3.8	3/4"	±2.5% F.S
BF2510S	200 ~ 2000	6 ~ 60	≤4.0	3/4"	±2.5% F.S
BF2511S	300 ~ 3000	9 ~ 90	≤3.4	1"	±2.5% F.S
BF2512S	400 ~ 4000	12 ~ 120	≤3.6	1"	±2.5% F.S
BF2513S	600 ~ 6000	15 ~ 150	≤3.9	1"	±2.5% F.S
BF2514S	600 ~ 6000	15 ~ 150	≤3.6	1½"	±2.5% F.S
BF2515S	800 ~ 8000	24 ~ 240	≤3.8	1½"	±2.5% F.S
BF2516S	1000 ~ 10000	30 ~ 300	≤3.9	1½"	±2.5% F.S
BF2517S	1200 ~ 12000	35 ~ 350	≤4.3	1½"	±2.5% F.S
BF2518S	1200 ~ 12000	35 ~ 350	≤3.2	2"	±2.5% F.S
BF2519S	1600 ~ 16000	50 ~ 500	≤3.4	2"	±2.5% F.S
BF2520S	2000 ~ 20000	75 ~ 750	≤3.8	2"	±2.5% F.S
BF2521S	2500 ~ 25000	120 ~ 1200	≤4.1	2"	±2.5% F.S
BF2522S	2000 ~ 20000	75 ~ 750	≤3.0	2½"	±2.5% F.S
BF2523S	3000 ~ 30000	-----	≤3.2	2½"	±2.5% F.S
BF2524S	3000 ~ 30000	-----	≤3.4	3"	±2.5% F.S
BF2525S	4000 ~ 40000	-----	≤3.7	3"	±2.5% F.S
BF2526S	5000 ~ 50000	-----	≤3.6	4"	±2.5% F.S
BF2527S	6000 ~ 60000	-----	≤4.2	4"	±2.5% F.S

NOTE

Performance Technical Data are effective with date of issue and are subject to change without prior notice.

[illegible]

1. Custom-made flow range and flange size upon request.
2. Please fill in the ordering information and service condition, and fax this sheet along with your inquiry to 886-7-8225588.

Fluid name: _____
 Sp. Gr. (density): _____
 Viscosity: _____
 Press.: _____
 Temp.: _____
 Full scale: _____