

BR series high sensitive flexible Roche coil

1. Product characteristics

The BR series flexible Roche coil is a highly sensitive flexible current sensor that can be directly combined with portable devices such as a power analyzer. Suitable for energy consumption monitoring, high frequency current monitoring, DC ripple measurement, etc. It can be customized differently according to the requirements size.

- The linearity is excellent
- Location error is small
- High dynamic range, ranging from 0.1A to 500 KA
- Soft and light, easy to install
- Overload ability is strong
- Good linearity
- Little interference by the adjacent conductors
- Large bandwidth range
- There is no open circuit high pressure hazard
- IP 65 Protection level
- Zero power consumption
- Open the the opened with one hand

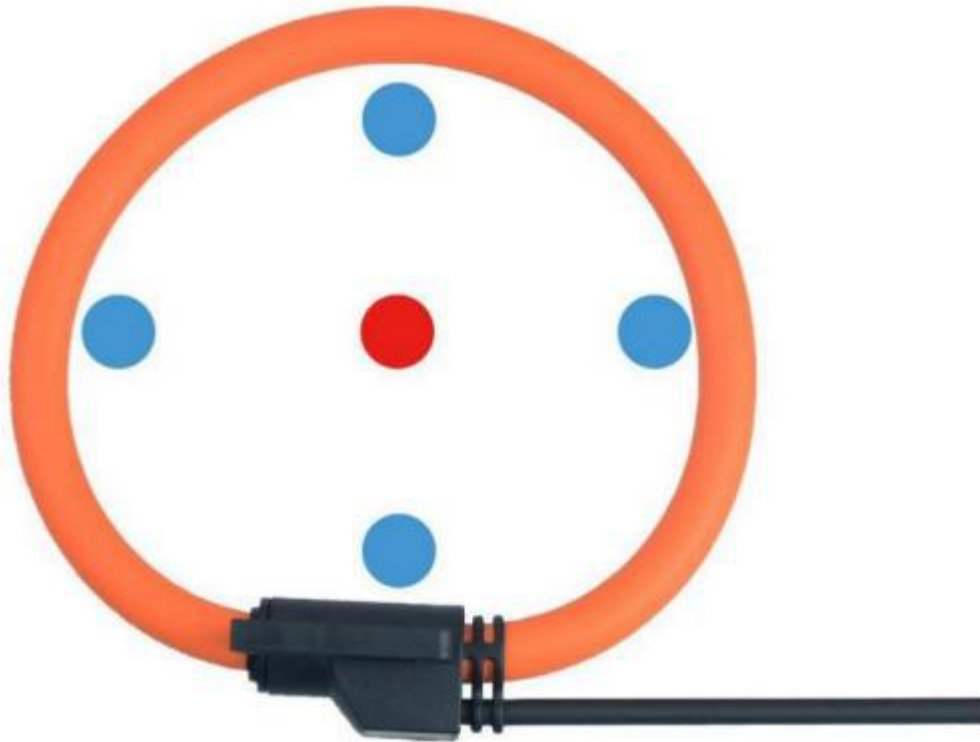
2. Technical parameters

model	BR -90	BR -150
girth	300mm	500mm
bore size	90mm	150mm
Refer to current	$\leq 500\text{kA}$	
weight	100 - 500g	
coil resistance	50 - 500 Ω	
maximum current	500kA	
section	12mm	
Signal line length	Default 2m, customizable	
no-load voltage ratio	200 $\pm$ 0.5% mV /kA @50Hz Other sensitivity can be customizable...	
position error	$\pm 1\%$	
OA Output (zero drift)	$\leq 1\text{mV}$	
Angle difference	$\leq 0.5^\circ$	

degree of linearity	$\pm 0.2\%$
tape width	1Hz - 10kHz
working temperature	-40°C - 80°C
Storage temperature	-50°C - 90°C
inflaming retarding	Wire & cable for thermoplastic rubber IEC-60332-Class 1-2 is flame retardant
shield	Coil 100%, signal cable 100%
Insulation voltage	Coil: 3000V; signal line: 300V

3. Position error

Conductor position	error (%)
● is close to the connector	<0.5%
● Close to the medial coil edge	<1%



4. Installation schematic diagram



