

- ❑ For use in conjunction with Broyce "Type A" Earth Leakage Relays
- ❑ Designed to detect leakage current and transmit a proportional signal to an Earth Leakage Relay
- ❑ Suitable for installations that use busbars



ISO 9001:2015

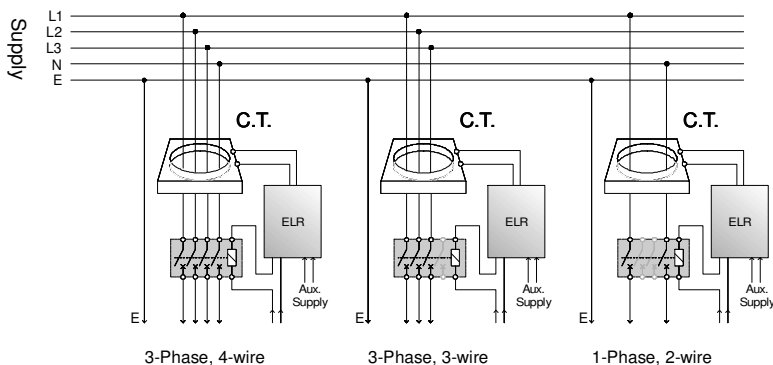
### INSTALLATION

Installation work must be carried out by qualified personnel.

- BEFORE INSTALLATION, ISOLATE THE SUPPLY TO THE BUSBARS/CONDUCTORS THAT ARE TO BE PASSED THROUGH THE TOROID.
- Installation of the toroid, along with the Earth Leakage Relay must be carried out in accordance with the latest wiring practices and regulations.

### CONNECTION DIAGRAM

Typical connection examples are shown below.



### TECHNICAL SPECIFICATION

Size availability* and part number:	150 x 350mm (BZCTR350)	160 x 470mm (BZCTR470)
* internal aperture		
Rated system voltage:	720V AC	
Insulation level:	3kV AC	
Current ratio:	1/1000	
Max. permissible current:	2kA (BZCTR350)	2.5kA (BZCTR470)
Minimum IΔn setting on ELR:	1A	
Max. Distance:	50m (Between toroid and ELR)	
Ambient temperature:	-10 to +50°C	
Relative humidity:	+95%	
Housing:	<b>BZCTR350</b> Self-extinguishing, shock resistant black ABS	<b>BZCTR470</b> Resin cast, natural finish
Mounting:	<b>BZCTR350</b> Using fixing slots provided on metal bracket	<b>BZCTR470</b> Using 4 x 9mm corner holes
Approvals:	CE Compliant.	

### INSTALLATION GUIDANCE

Correct installation of the Earth Leakage Relay and toroid should ensure trouble free operation, in particular, if this document is followed.

1. Always ensure the Earth conductor DOES NOT pass through the toroid. If this is unavoidable, the Earth must be routed back through the toroid again and around.
2. DO NOT pass individual conductors through separate toroids.
3. Ensure the busbars are central in the toroid (see Fig. 1).
4. Place the toroid on a straight section of the busbars, not near a bend.
5. Keep the cable and toroid away from intense magnetic fields from nearby equipment.

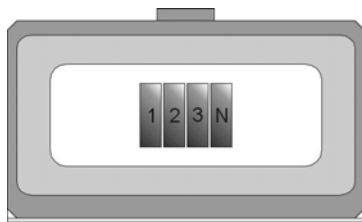


Fig. 1

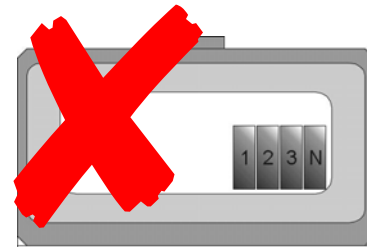
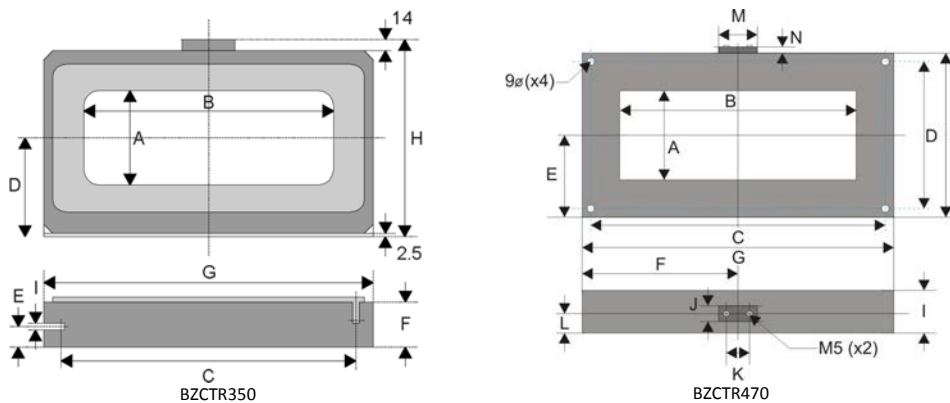


Fig. 2

### DIMENSIONS



Dimensions in mm

Toroid Type:	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Weight
<b>BZCTR350</b>	150	350	415	140	28	55	460	285	8						7.40kg
<b>BZCTR470</b>	160	470	552	242	131.5	286	572	263	72	32	40	36	80	8	14kg

Tolerances = ±0.1