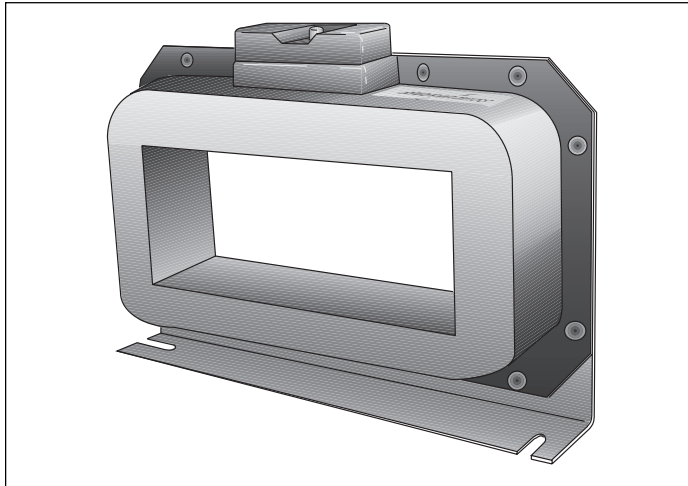




VDE IEC



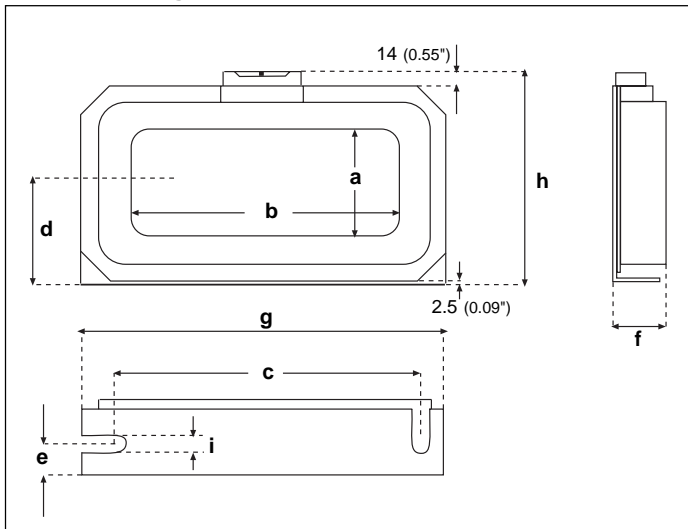
Product Description

The rectangular current transformers WR70x175S, WR115x305S and WR150x350S are suitable for use with RCM and EDS-based products to detect and locate ground faults in grounded, high-resistance and ungrounded systems.

In combination with EDS, RCM and RCMS-based products, the current transformers have a ground fault sensitivity extending over the range of 1mA...20A. Load current is not a factor when selecting the proper current transformer. The current transformer should be selected based on the cable size.

The current transformers WR70x175S, WR115x305S and WR150x350S are designed with different openings to accommodate a wide range of cable sizes. They are made from a high density Mu metal which has unique and repeatable output characteristics. Connection is by screw terminals. Depending on the application, the current transformers can be mounted either directly on the cable or by using the mounting brackets.

Dimension Diagram mm (inch)



Operational Information

The current transformers WR70x175S, WR115x305S and WR150x350S are highly sensitive and accurate current transformers which convert ground fault leakage currents into a signal that can be processed by either a RCM- or EDS-based product. Connection to the appropriate device is by two wires to the [K] and [L] terminals. Depending on the selected type of cable, up to 25m (80ft) distance between current transformer and evaluator is allowed. It is essential that all circuit conductors of the appropriate electrical system to be monitored be guided through the current transformer.

The equipment grounding conductor must always bypass the current transformer when wiring the system conductors through the CT.

In certain special cases, you may pass just the ground wire through the CT and the system conductors would bypass the current transformer when using the CTs in an RCM application. This should only be considered if the system conductors are too large for the CT.

Dimensions mm (inch)

	WR70x175S	WR115x305S	WR150x350S
a	70 (2.76")	115 (4.53")	150 (5.91")
b	175 (6.89")	305 (12")	350 (13.78")
c	225 (8.86")	360 (14.17")	415 (16.34")
d	85 (3.35")	116 (4.57")	140 (5.51")
e	22 (0.87")	25 (0.98")	28 (1.1")
f	46 (1.81")	55 (2.17")	55 (2.17")
g	261 (10.28")	402 (15.83")	460 (18.11")
h	176 (6.93")	240 (9.45")	285 (11.22")
i	7.5 (0.3")	8 (0.31")	8 (0.31")

For Use with

- Ground fault current monitoring relays [RCM]
- Ground fault current monitoring systems [RCMS]
- Ground fault location systems [EDS]

Technical Data WR70x175S ... WR150x350S

General Data:

Rated burden	180Ω
Rated ground fault sensing current	10A
Continuous ground fault overload capacity	20A
Rated short-time thermal current (1 sec.)	14 kA
Nominal power	500 mVA
Frequency Range	15Hz...400Hz
Accuracy	99%
Ambient temperature	-10°C ... +50°C
Flammability class	UL94V-0
Rated transformation ratio	600:1
CT material	high density Mu metal

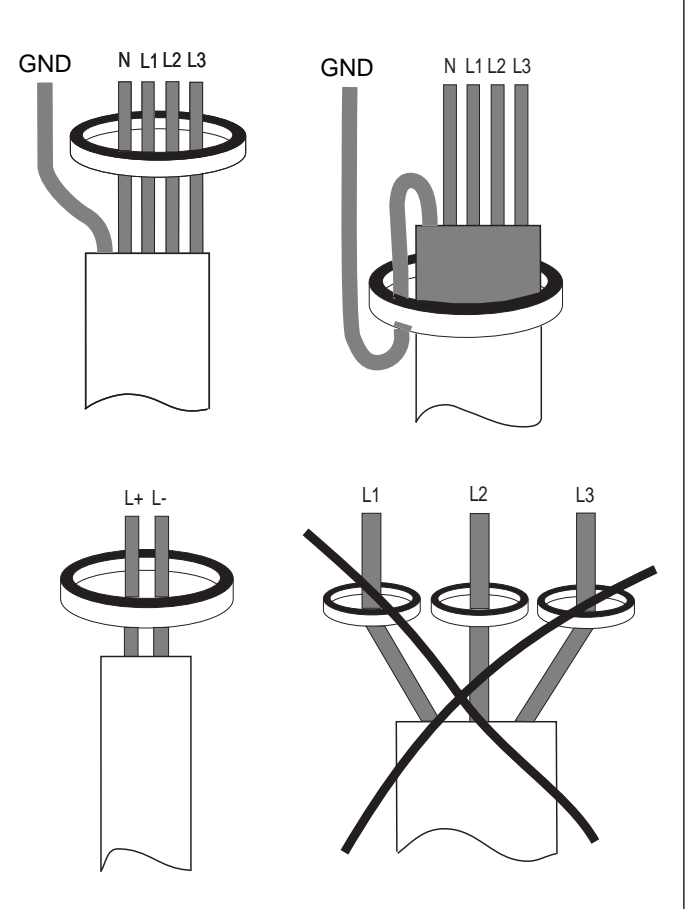
Testing:

Rated insulation voltage acc. DIN VDE 0110 T.1	AC 630 V
Rated impulse withstand voltage/ contamination level	6 kV/3
BIL Rating	2 kV
Dielectric test voltage acc. DIN VDE 0435 T.303/IEC 255	AC 3 kV


Connections & Mounting:


Length of the connecting leads	
Type of connection to the measuring transformer	
Single wires	up to 3' (1 m)
Twisted pair cable	up to 30' (10 m)
Shielded twisted pair cable	up to 75' (25 m)
Screw mounting	#10

Cable routing through the measuring transformer



Safety Instructions

 The ground conductor should always bypass the current transformer.

 Electrical equipment shall only be installed by qualified personnel in consideration of the current safety regulations!

Standards

The current transformers WR 70x175S ... WR 150x350S correspond to **DIN VDE 0414** and **IEC 185**, and are UL-listed, File #: E173157.

Ordering Information

Type	Article No.
WR 70x175S	911738
WR 115x305S	911739
WR 150x350S	911740

Avoiding interferences in case of high inrush currents

