

Line Relays ZDCB

Distance Relay with Directional Comparison Blocking (ZDCB)

Relays are assigned to a specific end of a branch. This end is specified by the column **Device Location** which can be set to either *From* or *To*. It is specified on the branch dialog by checking the box **Device is at From End of Line (otherwise at To End)**. The end specified by the **Device Location** is referred to as the "Relay End", while the other is referred to as the "Other End".

For Zone 1, the region is the same for both ends of the branch and each end trip independently if their Zone 1 conditions are met.

For higher zone tripping to occur, then Zone 2 conditions must be met at one end while simultaneously the Zone 3 conditions at the *other* end are *not* met.

Type: Active - OOSLEN ID=1 (From) ☒ Active
Device ID: 1 ☒ Device is at From End of Line (otherwise at To End)

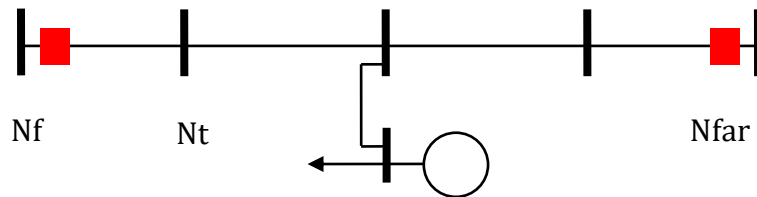
Type: Active - OOSLEN ID=1 (From) ☒ Active
Device ID: 1 ☒ Device is at From End of Line (otherwise at To End)

Other field results include signals associated with a particular zone which have the following meanings.
0 : not picked up (not in Zone)
1 : Picked up, not timed out
2 : Picked up, timeout complete

Other field results include signals associated with a breaker. For breach signals, the values have the following meanings.
0 : Trip not initiated
1 : Trip initiated, CB timer running
2 : Breaker has tripped

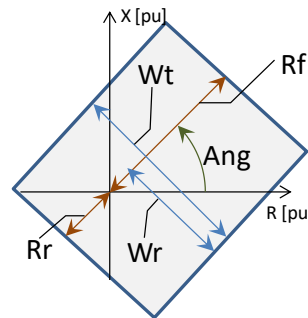
Parameter Meanings

Shape = 1 means Rectangle
0 means Circle, Lens, or Tomato
Ang = Angle
Wt = Width Total
Wr = Width Right
Rf = RForward
Rr = RReverse (For backward reach specify a positive number)



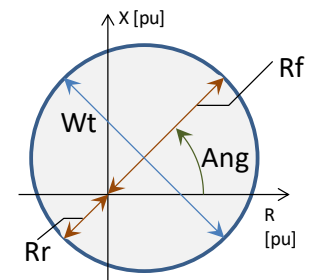
Model supported by PSLF

Rectangular Shape

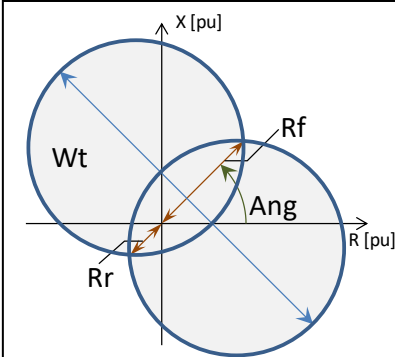


Circle Shape [Wt = Rf+Rr]

Also used when Wt = 0



Tomato Shape [Wt > Rf+Rr]



Lens Shape [Wt < Rf+Rr]

