

Line Relays OOSLEN

Out-of-step relay with 3 zones OOSLEN

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".

When this relay's conditions are met, only the Relay End of the branch is opened (determined by **Device Location**). However, the relay will determine if the line presently serves a radial system (i.e. the *Nfar* bus branch is already open). If a radial system is served, then all devices such as load or generation is also opened.

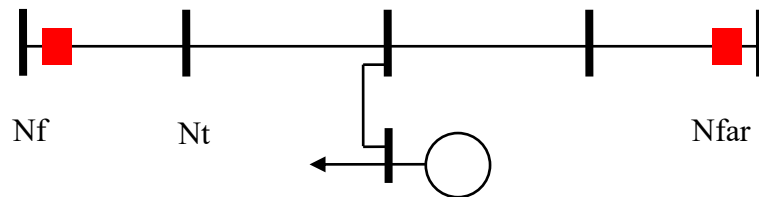
Multiple OOSLEN relays can be assigned to the same end of a branch. In order to distinguish between them there is an extra key field called Device ID which must be specified for the OOSLEN. When loading from an auxiliary file, if this field is omitted, Simulator assumes value of "1".

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



Model supported by PSLF

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

	From Number	To Number	Circuit	From Name_Nominal kV	To Name_Nominal kV	Device Location	Device ID	Type
1	4	1	1	Bus 4_230.00	Bus1_16.50	From	1	OOSLEN
2	4	1	1	Bus 4_230.00	Bus1_16.50	To	1	OOSLNQ
3	2	7	1	Bus 2_18.00	Bus 7_230.00	From		ZLIN1
4	5	4	1	Bus 5_230.00	Bus 4_230.00	To		ZLIN1

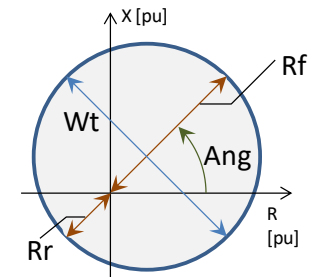
Parameter Meanings

Ang = Angle
Wt = Width Total
Rf = RForward
Rr = RReverse
(For backward reach specify a *positive* number)

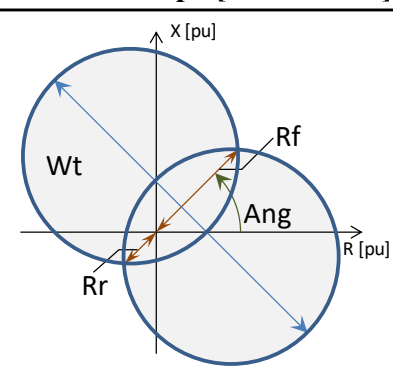
Note: In PSLF, the Rr values are given with the opposite sign for OOSLEN and ZLIN1 only. Simulator will flip signs when reading and writing Rr values from DYD files.

Circle Shape [$Wt = Rf + Rr$]

Also used when $Wt = 0$



Tomato Shape [$Wt > Rf + Rr$]



Lens Shape [$Wt < Rf + Rr$]

