

"..." O12+/2201	
No.	Name
1	DC opened bay 1
2	DC closed bay 1
3	* CB opened bay1
4	Opto-(1-3)
5	* CB closed bay 1
6	BFP Start bay 1
7	DC opened bay 2
8	Opto-(4-6)
9	DC closed bay 2
10	* CB opened bay2
11	* CB closed bay 2
12	Opto-(7-9)
13	BFP Start bay 2

"..." TRIP+/2201	
No.	Name
1	Trip1 bay1 +
2	Trip1 bay1 -
3	Trip1 bay1 NO
4	Trip2 bay1 +
5	Trip2 bay1 -
6	Trip2 bay1 NO
7	Trip1 bay2 +
8	Trip1 bay2 -
9	Trip1 bay2 NO

"..." CT+/5151	
No.	Name
1	I L1->
2	I L1<-
3	I L2->
4	I L2<-
5	I L3->
6	I L3<-
7	
8	

"..." VT+/2211	
No.	Name
1	U L1->
2	U L1<-
3	U L2->
4	U L2<-
5	U L3->
6	U L3<-
7	
8	

"..." O12+/2201	
No.	Name
1	BusSec DC1 opened
2	BusSec DC1 closed
3	BusSec DC2 opened
4	Opto-(1-3)
5	BusSec DC2 closed

"..." VT+/2211	
No.	Name
1	U L1->
2	U L1<-
3	U L2->
4	U L2<-
5	U L3->
6	U L3<-
7	
8	

"..." O12+/2201	
Name	No.
DC opened bay ...	1
DC closed bay ...	2
* CB opened bay...	3
Opto-(1-3)	4
* CB closed bay ...	5
BFP Start bay ...	6

"..." TRIP+/2201	
Name	No.
Trip1 bay... +	1
Trip1 bay... -	2
Trip1 bay... NO	3
Trip2 bay... +	4
Trip2 bay... -	5
Trip2 bay... NO	6
Trip1 bay... +	7
Trip1 bay... -	8
Trip1 bay... NO	9

"..." CT+/5151	
Name	No.
I L1->	1
I L1<-	2
I L2->	3
I L2<-	4
I L3->	5
I L3<-	6
	7
	8

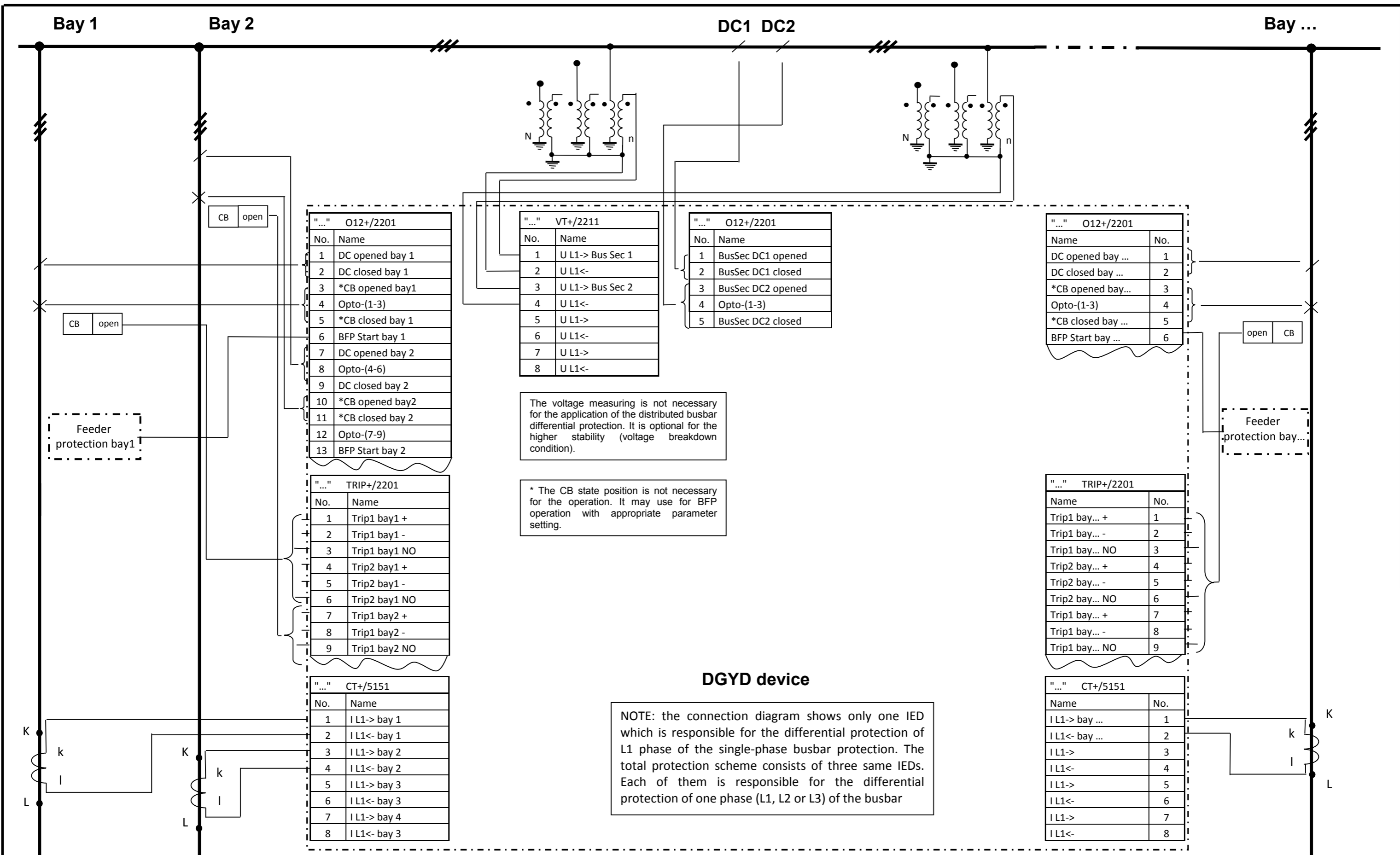
The voltage measuring is not necessary for the application of the distributed busbar differential protection. It is optional for the higher stability (voltage breakdown condition).

\* The CB state position is not necessary for the operation. It may use for BFP operation with appropriate parameter setting.

Edit by	Tóth J.	Platform	<b>IED-EP+</b>
Checked	Kazai N.	Type	<b>DGYD</b>
Approved		Config	
Prod.manager		Subject	<b>Connection diagram for the centralized three-phase busbar differential protection</b>
Data	2015.01.22.		



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"..." O12+/2201

No.	Name
1	DC opened bay 1
2	DC closed bay 1
3	*CB opened bay1
4	Opto-(1-3)
5	*CB closed bay 1
6	BFP Start bay 1
7	DC opened bay 2
8	Opto-(4-6)
9	DC closed bay 2
10	*CB opened bay2
11	*CB closed bay 2
12	Opto-(7-9)
13	BFP Start bay 2

"..." TRIP+/2201

No.	Name
1	Trip1 bay1 +
2	Trip1 bay1 -
3	Trip1 bay1 NO
4	Trip2 bay1 +
5	Trip2 bay1 -
6	Trip2 bay1 NO
7	Trip1 bay2 +
8	Trip1 bay2 -
9	Trip1 bay2 NO

"..." CT+/5151

No.	Name
1	I L1-> bay 1
2	I L1<- bay 1
3	I L1-> bay 2
4	I L1<- bay 2
5	I L1-> bay 3
6	I L1<- bay 3
7	I L1-> bay 4
8	I L1<- bay 3

"..." VT+/2211

No.	Name
1	U L1-> Bus Sec 1
2	U L1<-
3	U L1-> Bus Sec 2
4	U L1<-
5	U L1->
6	U L1<-
7	U L1->
8	U L1<-

"..." O12+/2201

No.	Name
1	BusSec DC1 opened
2	BusSec DC1 closed
3	BusSec DC2 opened
4	Opto-(1-3)
5	BusSec DC2 closed

"..." O12+/2201

Name	No.
DC opened bay ...	1
DC closed bay ...	2
*CB opened bay...	3
Opto-(1-3)	4
*CB closed bay ...	5
BFP Start bay ...	6

"..." TRIP+/2201

Name	No.
Trip1 bay... +	1
Trip1 bay... -	2
Trip1 bay... NO	3
Trip2 bay... +	4
Trip2 bay... -	5
Trip2 bay... NO	6
Trip1 bay... +	7
Trip1 bay... -	8
Trip1 bay... NO	9

"..." CT+/5151

Name	No.
I L1-> bay ...	1
I L1<- bay ...	2
I L1->	3
I L1<-	4
I L1->	5
I L1<-	6
I L1->	7
I L1<-	8

The voltage measuring is not necessary for the application of the distributed busbar differential protection. It is optional for the higher stability (voltage breakdown condition).

\* The CB state position is not necessary for the operation. It may use for BFP operation with appropriate parameter setting.

**DGYD device**

NOTE: the connection diagram shows only one IED which is responsible for the differential protection of L1 phase of the single-phase busbar protection. The total protection scheme consists of three same IEDs. Each of them is responsible for the differential protection of one phase (L1, L2 or L3) of the busbar

Edit by	Tóth J.	Platform	<b>IED-EP+</b>
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