

Installation diagram FCx4

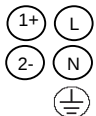
a

POWER SUPPLY

Non IS

Terminals

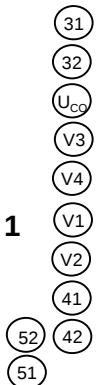
max 250Vrms



b

SIGNAL DATA INPUT/OUTPUT

“IS” or “ia” if installed in Zone 1 or Division 1.
In Zone 1 or Division 1 intrinsically safe supply required



c

SENSOR SIGNALS

Connection between sensor and associated FCT4 transmitter



ORDINARY LOCATION GENERAL PURPOSE

ATEX: -

IECEX: -

US: -

CDN: -

HAZARDOUS LOCATION

Zone 2/21

Division 2 & ZN 2/21

ATEX: II 3 G & II 2 D

IECEX: Gc & Db

US: NI / I / 2 / ABCD & DIP / II,III / 1 / EFG

I / 2 / AEx ec & I / 21 AEx tb

CDN: I / 2 / ABCD & II,III / 1 / EFG

I / 2 / Ex ec & I / 21 Ex tb

HAZARDOUS LOCATION

Zone 1/21

Division 1 & ZN 1/21

ATEX: II 2/1 (1) G & II 2 (1) D

II 2/1 G & II 2 D

II 2 (1) G & II 2 (1) D

IECEX: Gb/Ga (Ga) & Db (Da)

Gb/Ga & Db

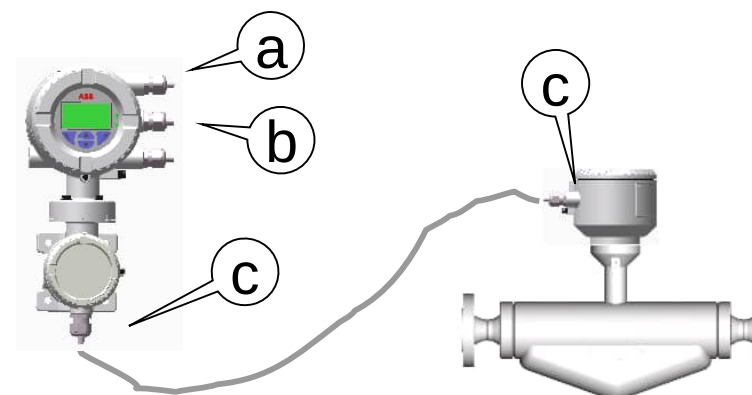
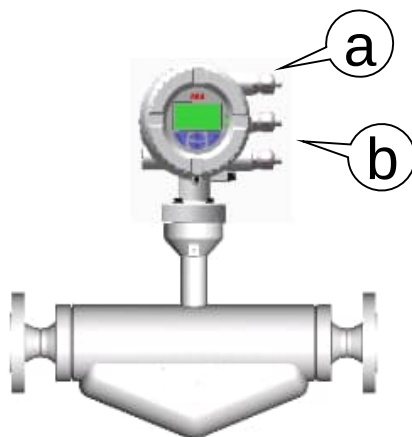
Gb (Ga) & Db (Da)

US: XP-IS / I / 1 / ABCD & DIP / II,III / 1 / EFG

I / 1 / AEx ia mb tb & I / 21 / AEx ia ma tb

CDN: XP-IS I / 1 / ABCD & DIP / II,III / 1 / EFG

I / 1 / Ex ia mb tb & I / 21 / Ex ia ma tb



For Model	FCx4	Projection method 1	General tolerances:		Tolerancing:
		 ABB AG	Work piece edges:		Surface:
			Installation diagram FCB		
07	06.04.2022	FBu	3KXF000028G0009		
Rev.	Date	Number	Name	Material	Ref. B/H
Replaces:					

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For Model				Projection method 1				General tolerances:				Tolerancing:							
FCx4				 ABB AG				Work piece edges:				Surface:							
								Installation diagram FCB											
				checked per Sit: checked drawn by Date Name 01 23.2.2015 FBu								3KXF000028G0009							
07 06.04.2022 FBu								Material				Ref. B/H							
Rev. Date Number Name				Replaces:															

Model code
FCa4cY0

Zone 2/21 & Division 2

FCa4cA2
FCa4cF2

HART Modbus Profibus DP Ethernet Communication

Indication	Abbr.	Status	Option	Terminal	Operating Value			
					GP		Ex nA / NI	
					U _{nom}	I _{nom}	U _{nom}	I _{nom}
		Active or Passive	Chooosen Option depending on Model Number (MN)	If "or" occurs Terminal depends on MN	[V]	[mA]	[V]	[mA]
On board								
Current Ouput 1	CO1	A	On board Power Supply	31/U _{CO}	30	30	30	30
Current Ouput 1	CO1	P		31/32	30	30	30	30
Digital Output 1	DO1	A	With OC Active Supply	41/42 and V1/V2	30	30	30	30
Digital Output 1	DO1	P		41/42	30	30	30	30
Digital Output 1	DO1	A	On board Power Supply	41/U _{CO}	30	30	30	30
Digital Output 2	DO2	A	With OC Active Supply	51/52 and V1/V2	30	30	30	30
Digital Output 2	DO2	P		51/52	30	30	30	30
Option Cards (OC)								
Current Ouput 2	CO2	A	With OC Active Supply	V1/V2 and V3/V4	30	30	30	30
Current Ouput 2	CO2	P		V1/V2 or V3/V4	30	30	30	30
Current Ouput 3	CO3	P		V1/V2 or V3/V4	30	30	30	30
Digital Output 3	DO3	A	With OC Active Supply	V1/V2 and V3/V4	30	30	30	30
Digital Output 3	DO3	P		V1/V2 or V3/V4	30	30	30	30
Digital Input 1	DI1	A	With OC Active Supply	V1/V2 and V3/V4	30	3,45	30	3,45
Digital Input 1	DI1	P		V1/V2 or V3/V4	30	3,45	30	3,45
Modbus / Profibus DP	---	A		V1/V2	30	30	30	30
Ethernet Module	---	A		X1...X8	57	417	57	417
Power over Ethernet PoE Module	---	A		---	57	417	57	417
Active Pulse Output	APO	A		V1/V2 or V3/V4	24	22,5	30	30

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For Model FCx4	Projection method 1  ABB AG	General tolerances: Work piece edges:	Tolerancing: Surface:
	Date 01 23.2.2015	Installation diagram FCB	
	Name FBu	3KXF000028G0009	
07 06.04.2022 FBu	Material	Ref. B/H	
Rev. Date Number Name	Replaces:		

Model code	
FCa4cA1	
FCa4cF1	HART Modbus Profibus DP Ethernet Communication

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FCx4				 ABB AG				Work piece edges:				Surface:			
								Installation diagram FCB							
				Date											
				01 23.2.2015				FBU				3KXF000028G0009			
07 06.04.2022 FBU				checked				drawn by							
Rev.				Date				Number				Name			
Replaces:								Material				Ref. B/H			

Model number			On Board Input-/ Output			Slot1		Slot2	
Output	Optional Add1	Optional Add2	Current Output CO1 Terminal	Digital Output DO1 Terminal	Digital Output DO2 Terminal	Option Card	Terminal	Option Card	Terminal
G0	---	---	31/ 32/ Uco	41/ 42	51/ 52	---	---	---	---
G1	---	---	31/ 32/ Uco	41/ 42	51/ 52	AS *	V1/ V2	---	---
G2	---	---	31/ 32/ Uco	41/ 42	51/ 52	---	---	CO2	V3/ V4
G3	---	---	31/ 32/ Uco	41/ 42	51/ 52	CO2	V1/ V2	CO3	V3/ V4
G4	---	---	31/ 32/ Uco	41/ 42	51/ 52	AS	V1/ V2	CO2	V3/ V4
G5	---	---	31/ 32/ Uco	41/ 42	51/ 52	DI1	V1/ V2	CO2	V3/ V4
G6	---	---	31/ 32/ Uco	41/ 42	51/ 52	DO3	V1/ V2	---	---
G7	---	---	31/ 32/ Uco	41/ 42	51/ 52	DI1	V1/ V2	DO3	V3/ V4
G8	---	---	31/ 32/ Uco	41/ 42	51/ 52	DI1	V1/ V2	---	---
G9	---	---	31/ 32/ Uco	41/ 42	51/ 52	AS	V1/ V2	DI1	V3/ V4
M5	---	---	31/ 32/ Uco	41/ 42	51/ 52	MODBUS	V1/ V2	---	---
M6	---	---	31/ 32/ Uco	41/ 42	51/ 52	MODBUS	V1/ V2	APO	V3/ V4
D1	---	---	31/ 32/ Uco	41/ 42	51/ 52	PROFIBUS DP	V1/ V2	---	---
E1	---	---	31/ 32/ Uco	41/ 42	51/ 52	Ethernet 1x Port	X1...X4	---	---
E2	---	---	31/ 32/ Uco	41/ 42	51/ 52	Ethernet 2x Port	X1...X4 X5...X8	---	---
E3	---	---	31/ 32/ Uco	41/ 42	51/ 52	Ethernet 1x Port	X1...X4	PoE	Internal bridge (V3/4 to 1+1/2-)

Model number			On Board Input-/ Output			Slot1		Slot2	
Output	Optional Add1	Optional Add2	Current Output CO1 Terminal	Digital Output DO1 Terminal	Digital Output DO2 Terminal	Option Card	Terminal	Option Card	Terminal
G0	DRT	---	31/ 32/ Uco	41/ 42	51/ 52	AS	V1/ V2	---	---
G0	DRT	DSN	31/ 32/ Uco	41/ 42	51/ 52	AS	V1/ V2	DI1	V3/ V4
G0	DRT	DSG	31/ 32/ Uco	41/ 42	51/ 52	AS	V1/ V2	DO3	V3/ V4
G0	DRT	DSA	31/ 32/ Uco	41/ 42	51/ 52	AS	V1/ V2	CO2	V3/ V4
G0	DRN	---	31/ 32/ Uco	41/ 42	51/ 52	DI1	V1/ V2	---	---
G0	DRN	DSG	31/ 32/ Uco	41/ 42	51/ 52	DI1	V1/ V2	DO3	V3/ V4
G0	DRN	DSA	31/ 32/ Uco	41/ 42	51/ 52	DI1	V1/ V2	CO3	V3/ V4
G0	DRG	DSN	31/ 32/ Uco	41/ 42	51/ 52	DO3	V1/ V2	DI1	V3/ V4
G0	DRG	DSA	31/ 32/ Uco	41/ 42	51/ 52	DO3	V1/ V2	CO3	V3/ V4
G0	DRA	DSA	31/ 32/ Uco	41/ 42	51/ 52	CO2	V1/ V2	CO3	V3/ V4
G0	DRA	DSG	31/ 32/ Uco	41/ 42	51/ 52	CO2	V1/ V2	DO3	V3/ V4
G0	DRA	DSN	31/ 32/ Uco	41/ 42	51/ 52	CO2	V1/ V2	DI1	V3/ V4
G0	DRM	DSN	31/ 32/ Uco	41/ 42	51/ 52	MODBUS	V1/ V2	DI1	V3/ V4
G0	DRM	DSG	31/ 32/ Uco	41/ 42	51/ 52	MODBUS	V1/ V2	DO3	V3/ V4
G0	DRD	DSN	31/ 32/ Uco	41/ 42	51/ 52	PROFIBUS DP	V1/ V2	DI1	V3/ V4
G0	DRD	DSG	31/ 32/ Uco	41/ 42	51/ 52	PROFIBUS DP	V1/ V2	DO3	V3/ V4
G0	DR6	---	31/ 32/ Uco	41/ 42	51/ 52	Ethernet	X1...X4	---	---
G0	DR6	DS8	31/ 32/ Uco	41/ 42	51/ 52	Ethernet	X1...X4	PoE	Internal bridge (V3/4 to 1+1/2-)
G0	DRH	---	31/ 32/ Uco	41/ 42	51/ 52	APO	V1/V2	---	---
G0	---	DSH	31/ 32/ Uco	41/ 42	51/ 52	---	---	APO	V1/V2

Safety Warning:

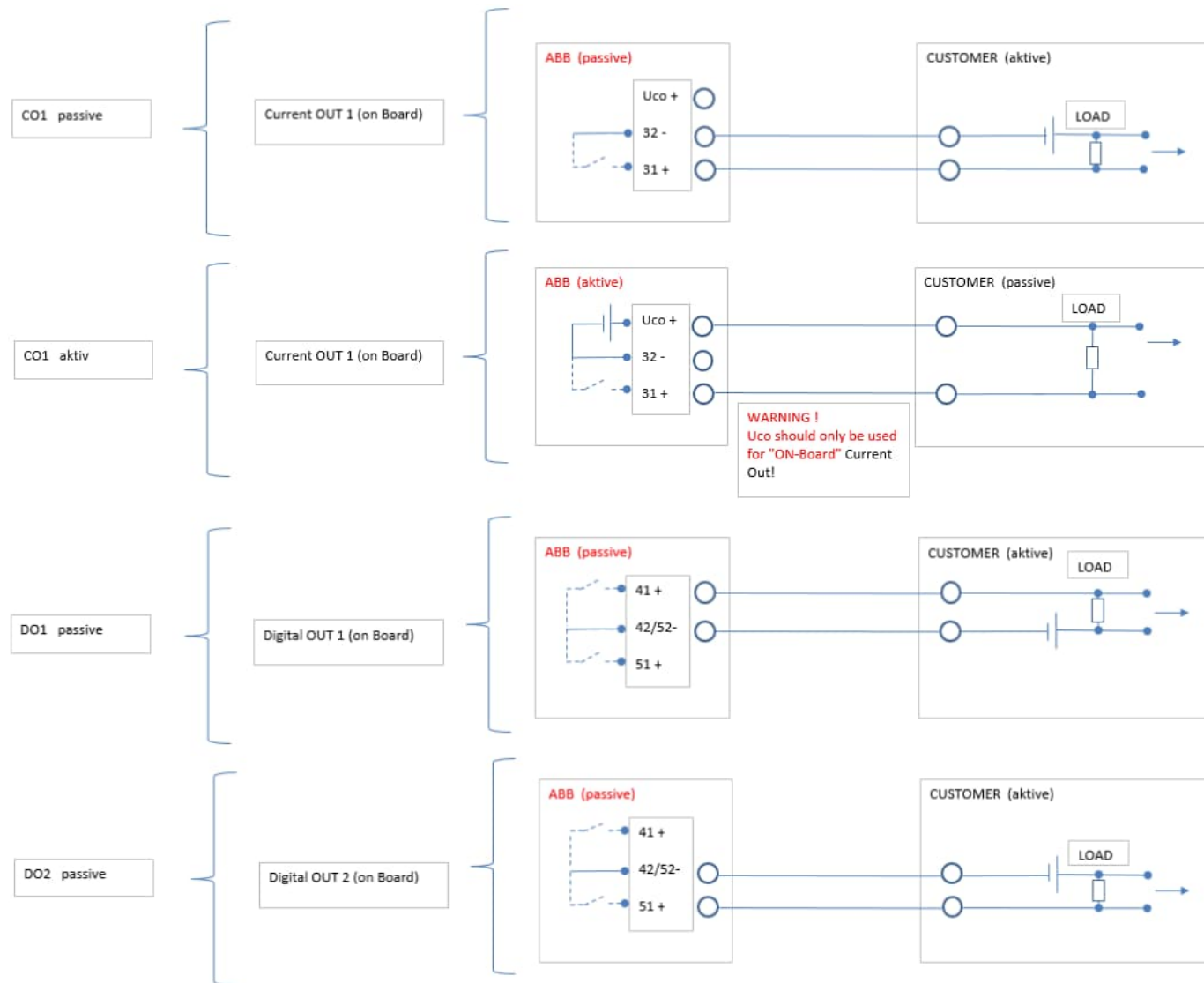
The option card AS (Active Supply) is only suitable for use with internal option cards. The use of external circuits is not allowed.

Sicherheitshinweis: Die Optionskarte AS (Active Supply) ist nur für die Verwendung mit internen Optionskarten geeignet. Der Einsatz mit externen Schaltkreisen ist nicht erlaubt.

Summary of model numbers,
option cards and the
corresponding customer
connections / terminals

For Model FCx4	Projection method 1  ABB AG	General tolerances: Work piece edges:	Tolerancing: Surface:
Date 01 23.2.2015		Name FBu	
07 06.04.2022	FBu	3KXF000028G0009	
Rev.	Date	Number	Name
Replaces:			

Allowed I/O connections and OPTION CARD handling:

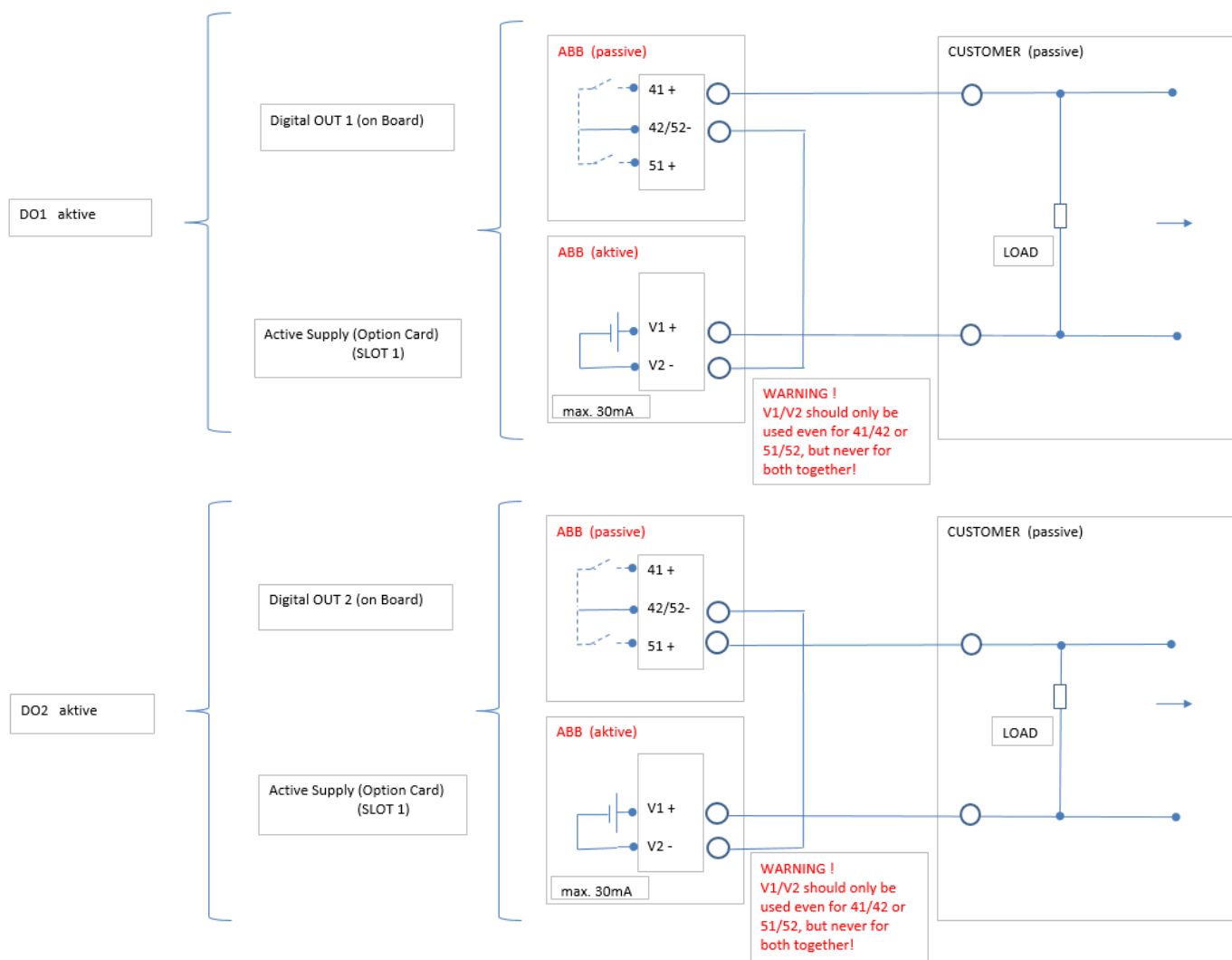


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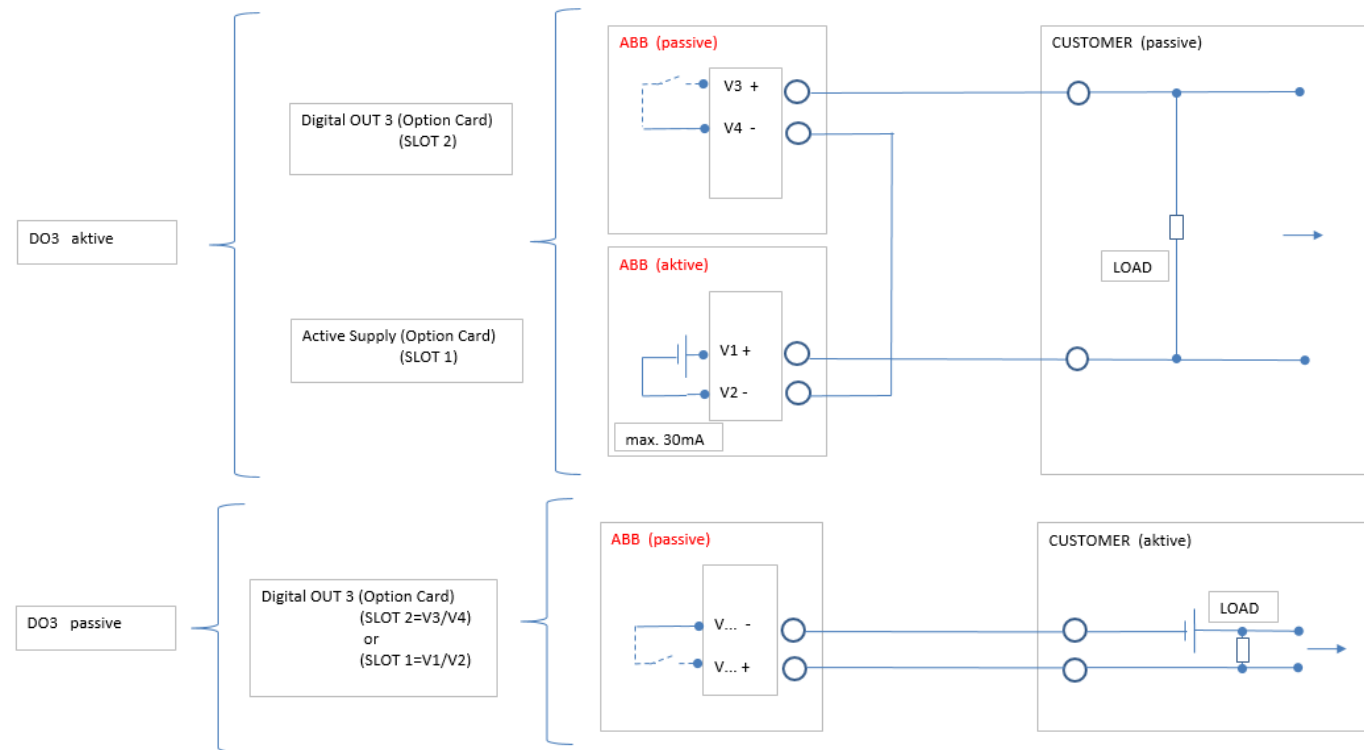
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		ABB	Work piece edges:	Surface:
		ABB AG	Installation diagram FCB	
		01 23.2.2015 FBU	3KXF000028G0009	
07 06.04.2022 FBU			Material	Ref. B/H
Rev.	Date	Number	Name	Replaces:

Allowed I/O connections and OPTION CARD handling:



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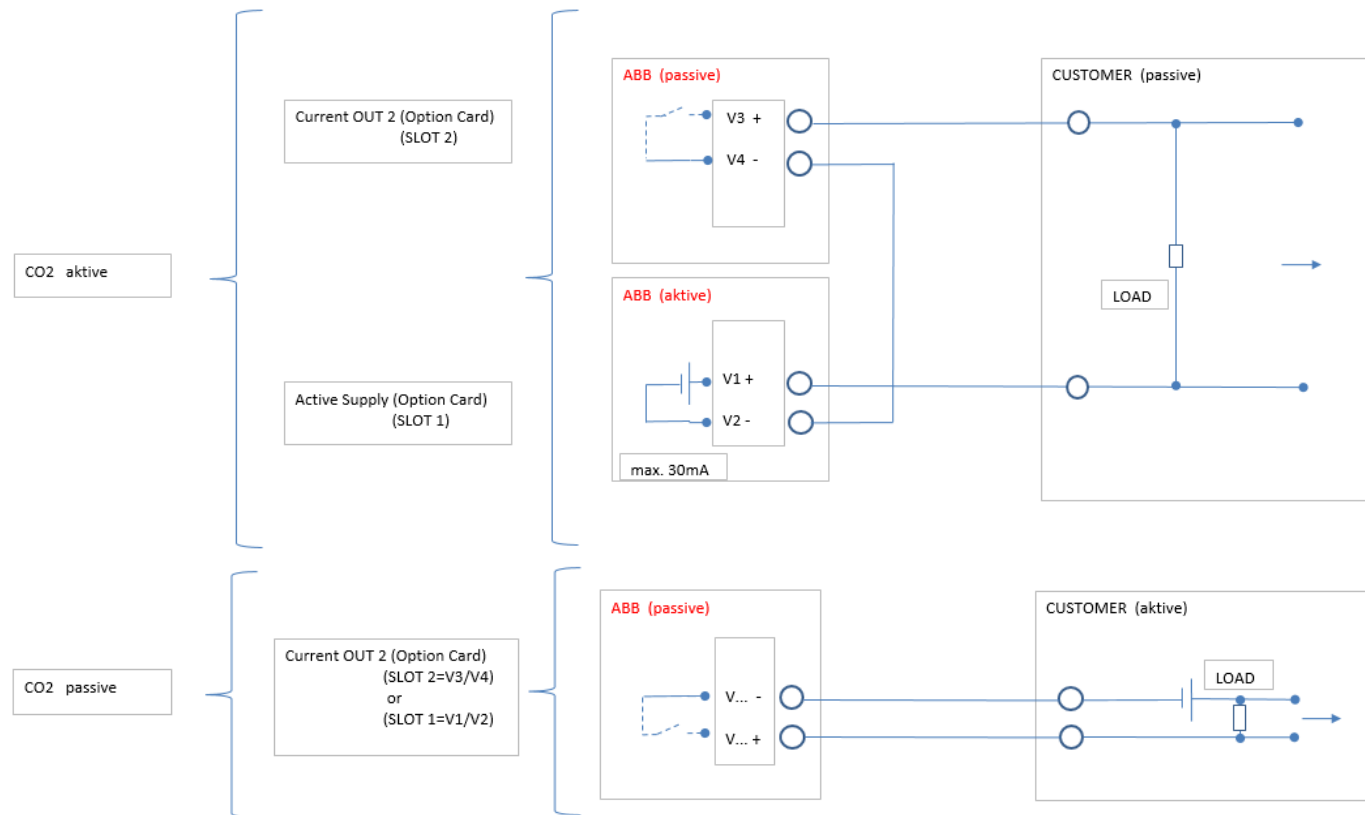


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For Model FCx4		Projection method 1 ABB ABB AG		General tolerances: Work piece edges:		Tolerancing: Surface:	
				Installation diagram FCB			
07 06.04.2022 FBU		Date 01 23.2.2015 FBU		3KXF000028G0009			
Rev.		Date		Material		Ref. B/H	
Number		Name		Replaces:			

Allowed I/O connections and OPTION CARD handling:

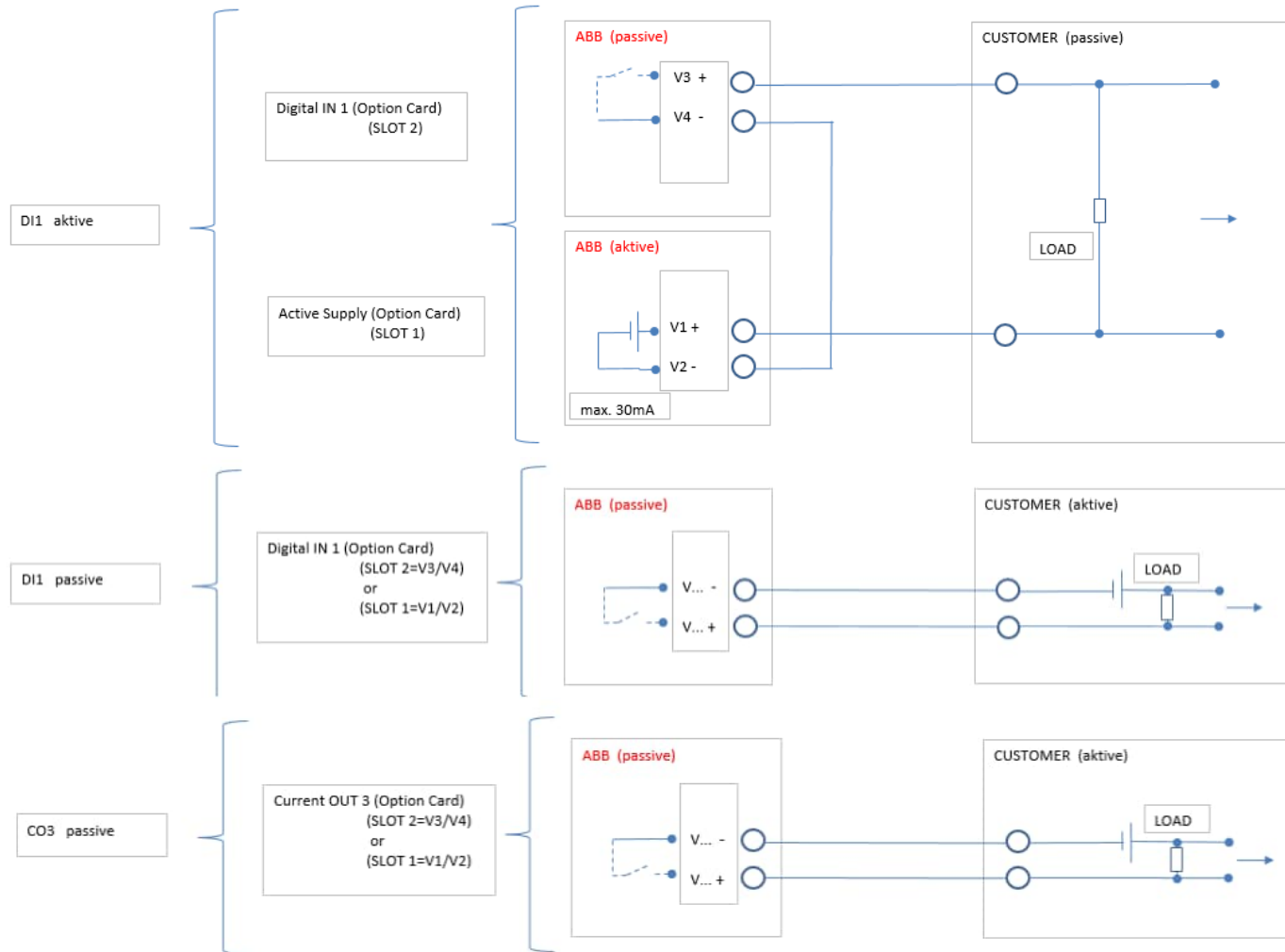


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		ABB AG	Installation diagram FCB	
		Date	Name	
		01	23.2.2015	FBU
07	06.04.2022	FBU	3KXF000028G0009	
Rev.	Date	Number	Name	Replaces:

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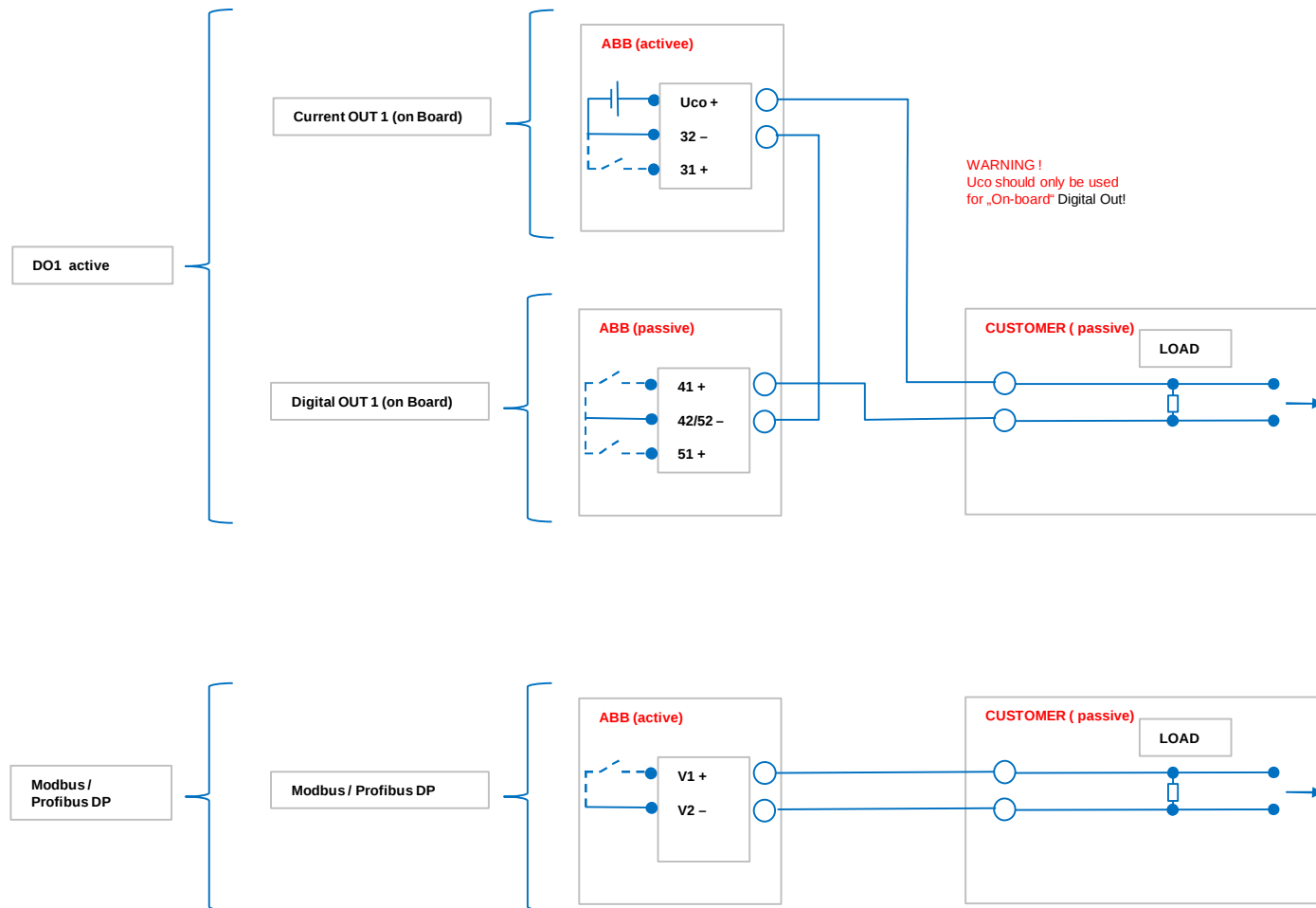


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				ABB ABB AG		Installation diagram FCB			
				checked per Std. drawn by	Date	Name	3KXF000028G0009		
					01 23.2.2015	FBu			
07 06.04.2022 FBu									
Rev. Date Number Name				Replaces:		Material		Ref. B/H	

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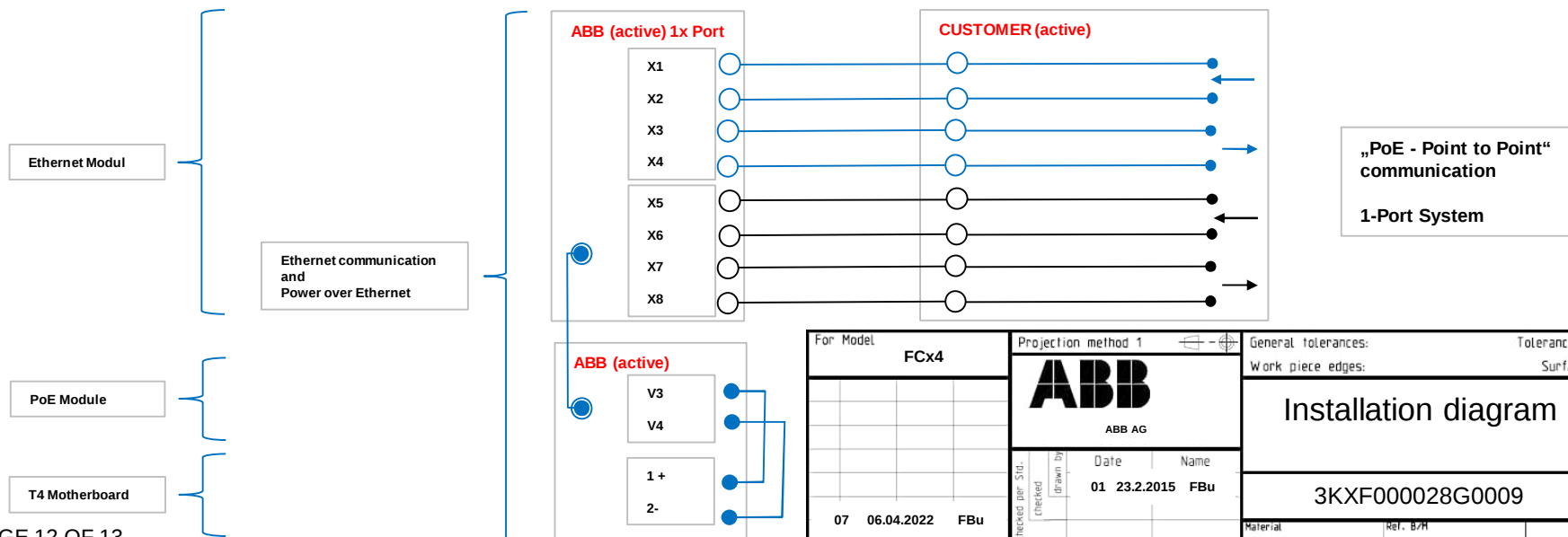
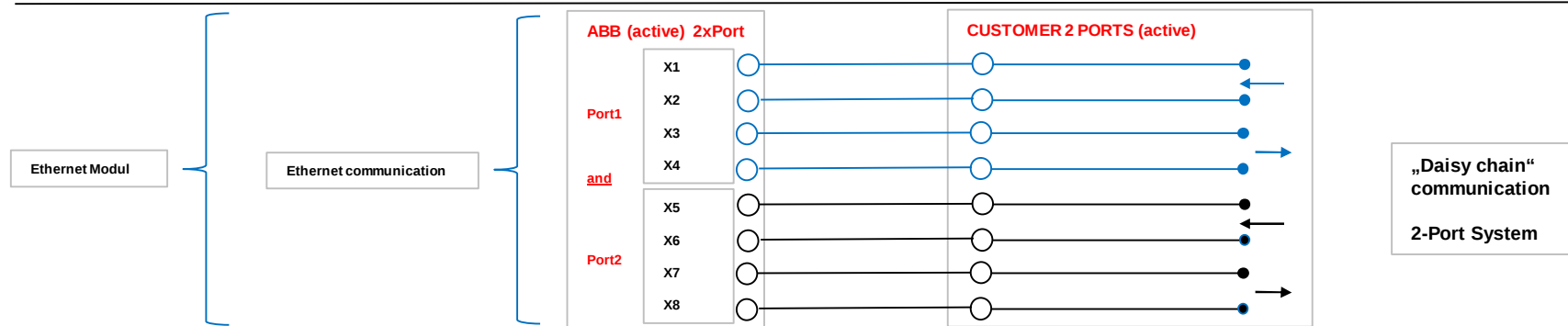
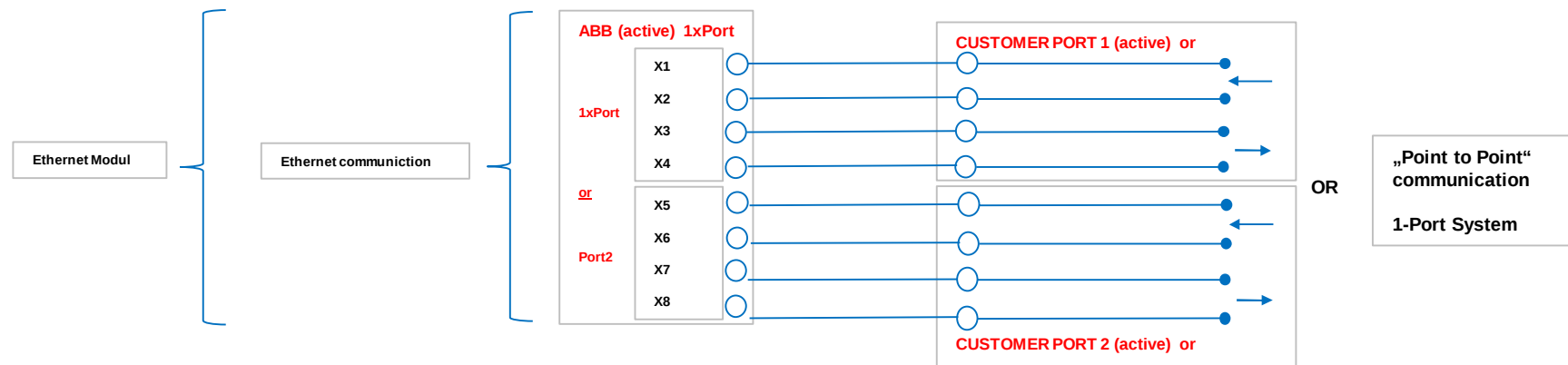


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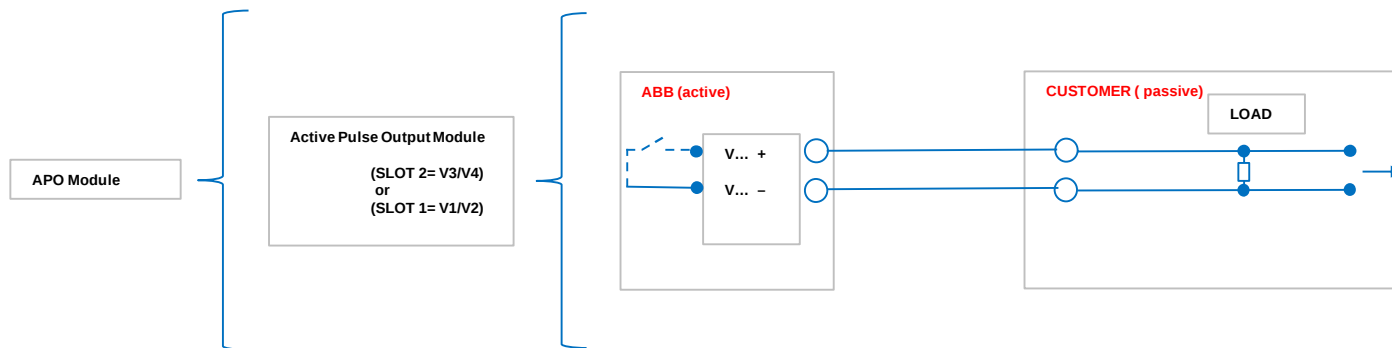
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		ABB	Work piece edges:	Surface:
		ABB AG	Installation diagram FCB	
		Date	Name	
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		ABB ABB AG		Work piece edges:		Surface:	
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