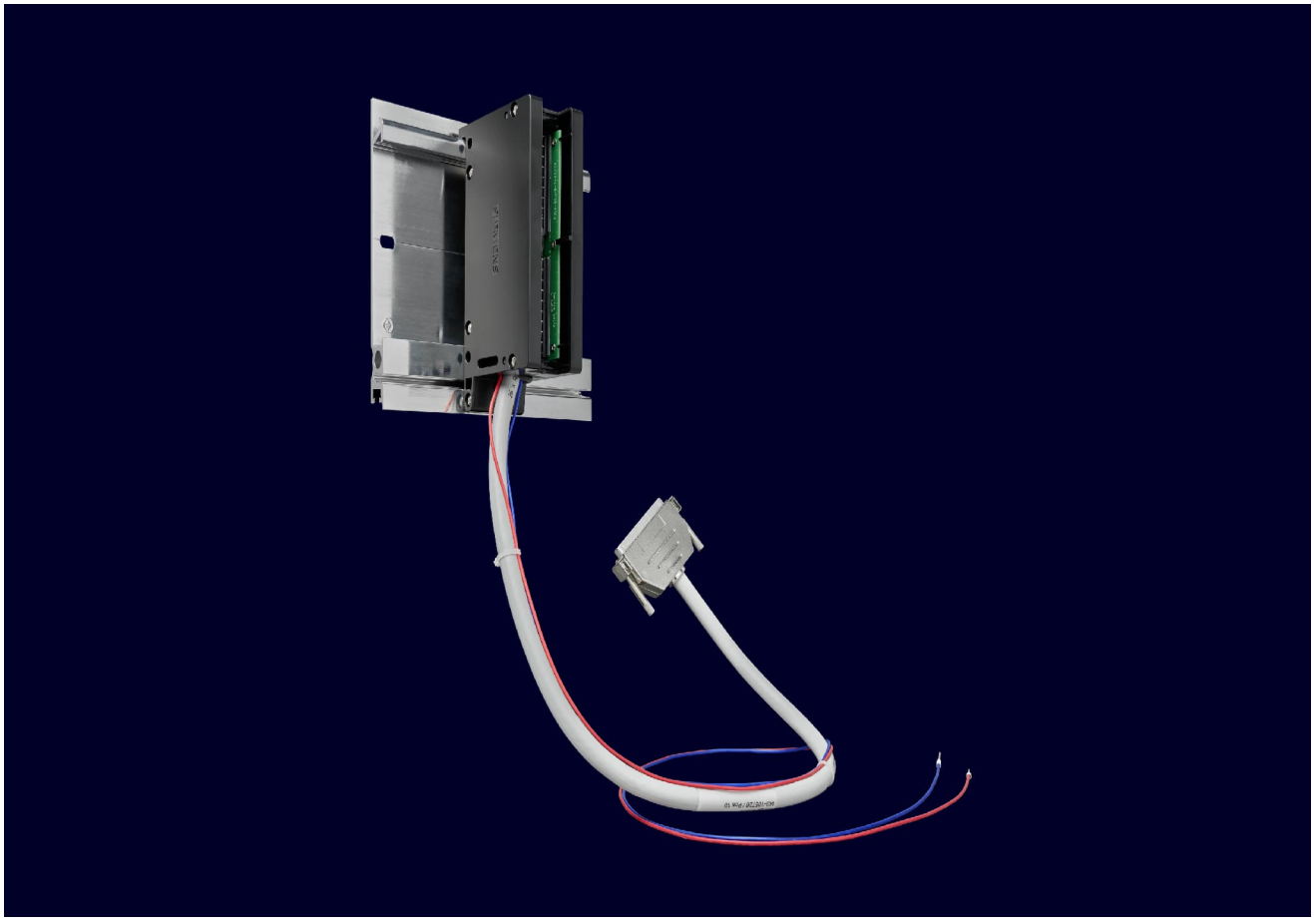
I/O-ADAPTER S7/300 (ET 200M) --> ET 200SP HA

VERSION 1.1

11/2024

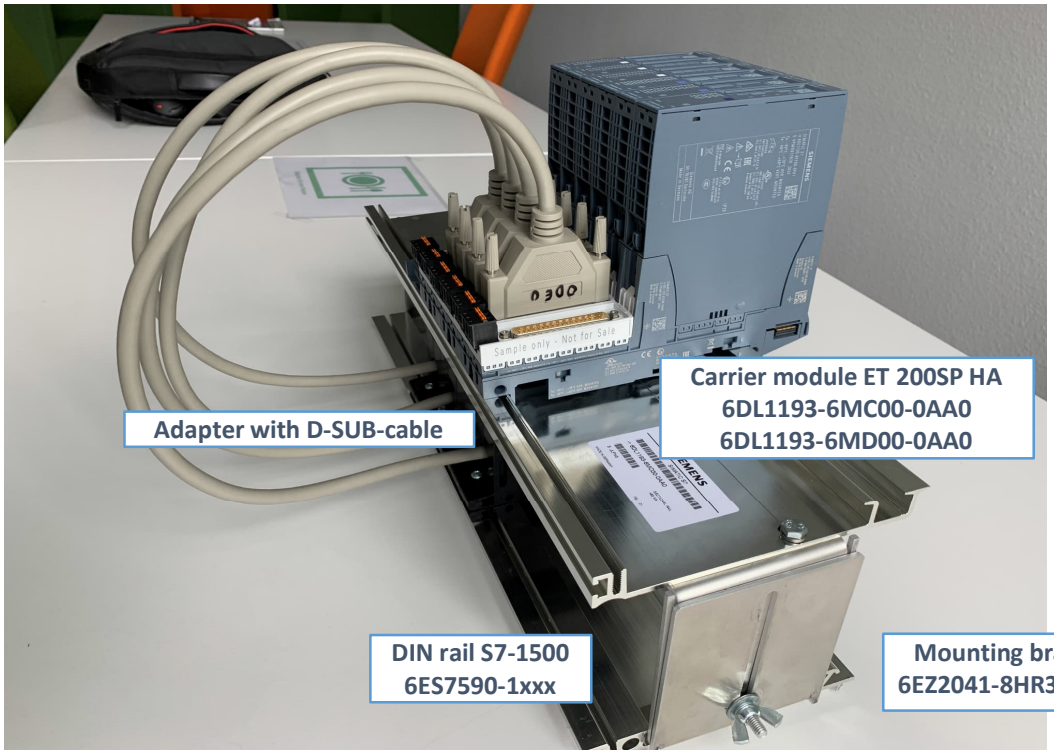
I/O-Adapter unit

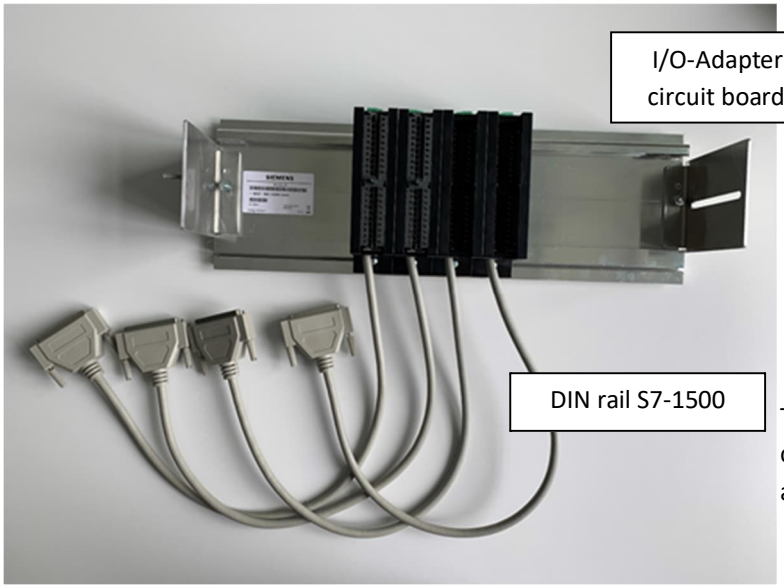


SIEMENS

I/O-Adapter S7/300 (ET 200M) --> ET 200SP HA

mechanical assembly





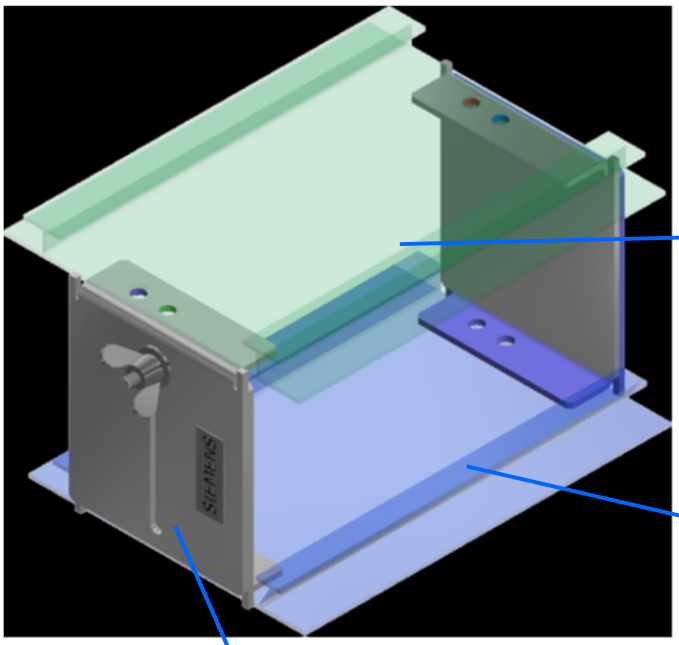
Terminalblock 6DL1193-6TC00-0DH0, carrier module, ET 200SP HA and rails are not included.

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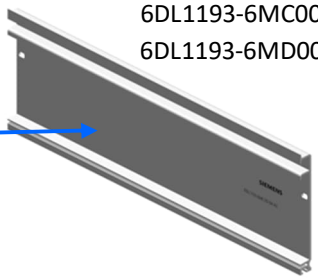
I/O-Adapter S7/300 (ET 200M) --> ET 200SP HA

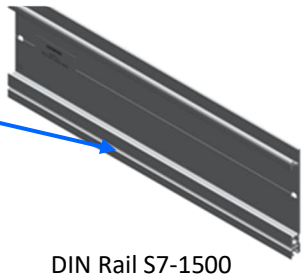
mechanical assembly

For installation in the existing cabinet the space of the ET 200M can be used with a piggyback solution.
The right and left part of the mounting bracket are mounted on the S7-1500 rail. This is the bottom level that takes the adapter housing.
The mounting rail of ET 200SP HA is the upper level that takes the components of ET 200SP HA.
The distance between lower and upper level can be adjusted from8 to 16 cm.
Once the components are mounted, the brackets can be pushed together to minimize the height.
The connector of ET 200M is plugged into the adapter housing on the lower level. The D-SUB-cable of the I/O-Adapter is connected to the ET 200SP HA.



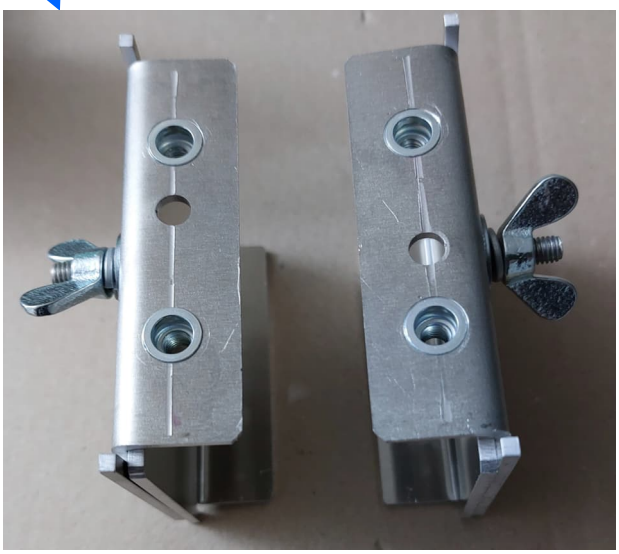
mounting rail
6DL1193-6MC00-0AA0
6DL1193-6MD00-0AA0



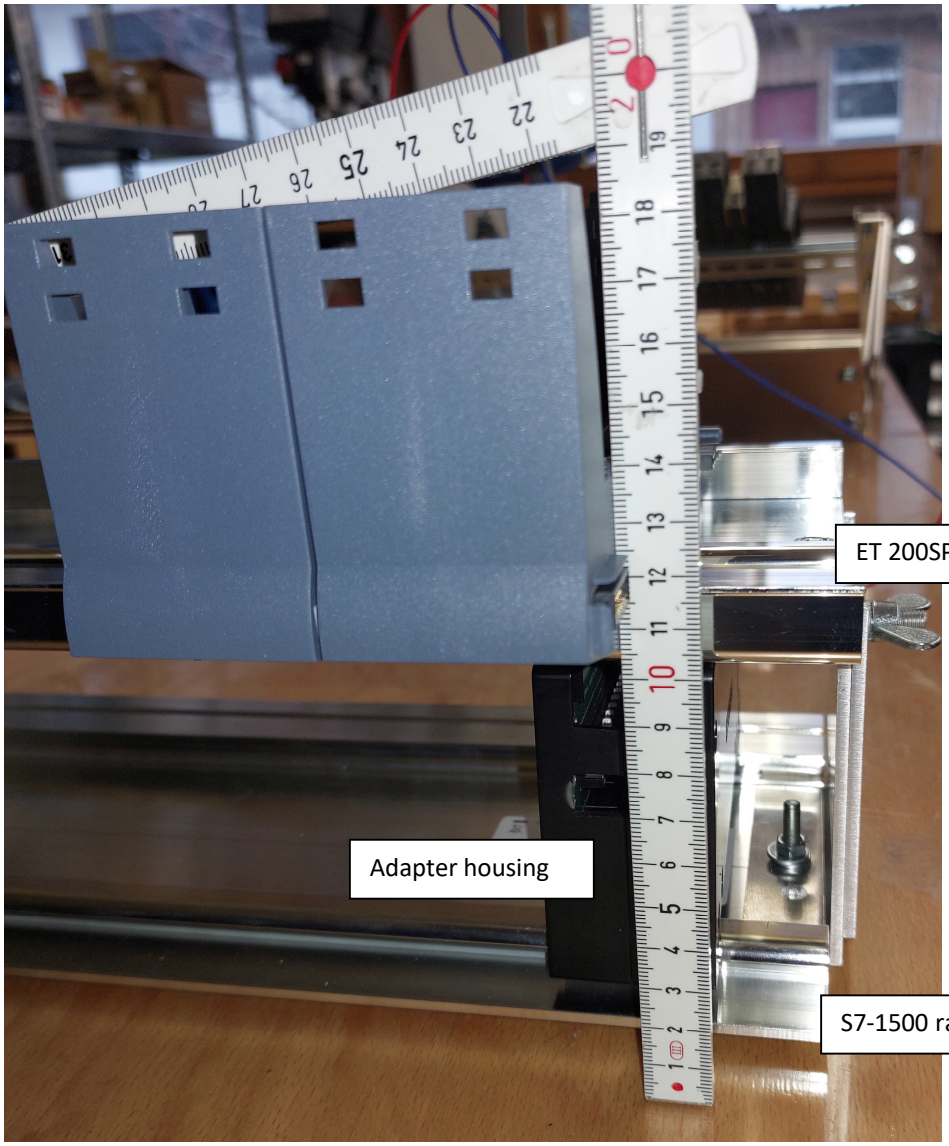


DIN Rail S7-1500
6ES7590-xxxxx

spacer / mounting brackets (set)
6EZ2041-8HR35-0BG1



I/O-Adapter S7/300 (ET 200M) --> ET 200SP HA



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I/O-Adapter S7/300 (ET 200M) --> ET 200SP HA

mechanical assembly

The housing of the adapter fits to the standard profile rail of the S7-1500.
S7-300 / ET200M modules can be mounted on different rails:

- 6ES7 390-xxxx
- 6ES7 195-1Gxxx

For the use with these rails there are fixing kits available.

The mechanical adapter set 1 **6EZ2041-8HR35-1BG0** fits to the rail of the S7-300. The fixing bracket is mounted to the S7-300 rail (fastening screw included with delivery). On the stay bolts the rail of S7-1500 can be mounted. This means that a preassembled mechanic can be mounted on the existing rail in the cabinet.

 6ES7390-	 mechanical adapter set1 **6EZ2041-8HR35-1BG0**	 mounted on S7-300 rail	 S7-1500 rail added

With the use of the mechanical adapter set 2 the mounting brackets 6EZ2041-8HR35-0BG1 can be fixed on the existing rail of the S7-300. The adapter –8HR35- is fixed to the S7-300 rail using a fixing element that is inserted in a slot of the S7-300-rail

6ES7390  6ES7195 	 mechanical adapter set 2 **6EZ2041-8HR35-2BG0**	 Mounted on rail	 Mounting bracket added 6EZ2041-8HR35-0BG1

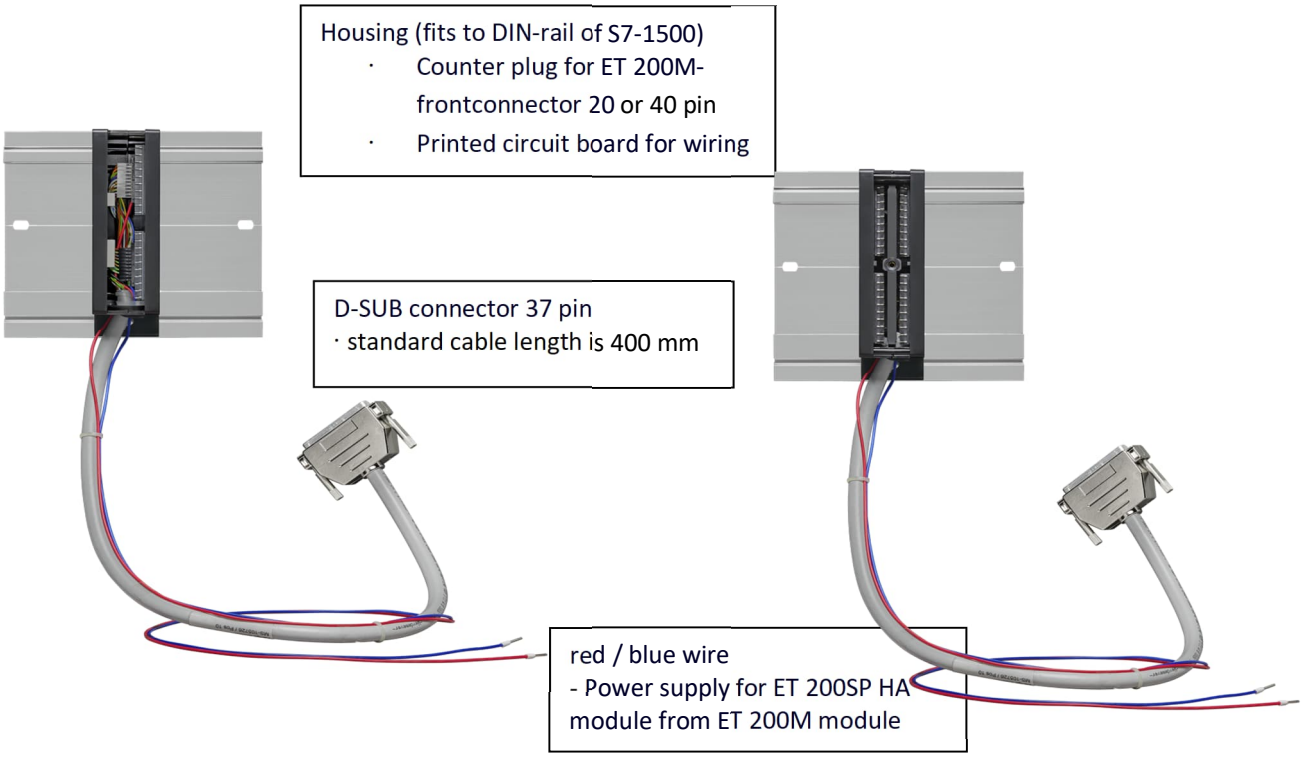
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I/O-Adapter S7/300 (ET 200M) --> ET 200SP HA

		 **6EZ2041-8HR35-3BG0**	

I/O-Adapter S7/300 (ET 200M) --> ET 200SP HA

I/O-Adapter



Open ended adapter:

Open ended types for 20/40 pin frontconnector of ET200M /S7-300) can be used to make wirings on own request.
Cable length is 500mm (single conductor, 0.5mm²), the ET200SP HA terminal block is not included and needs to be connected on site.

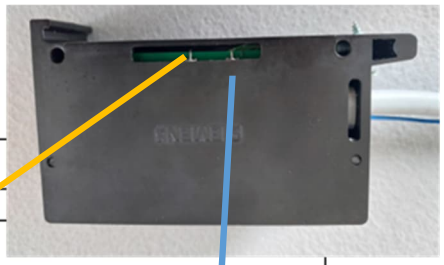


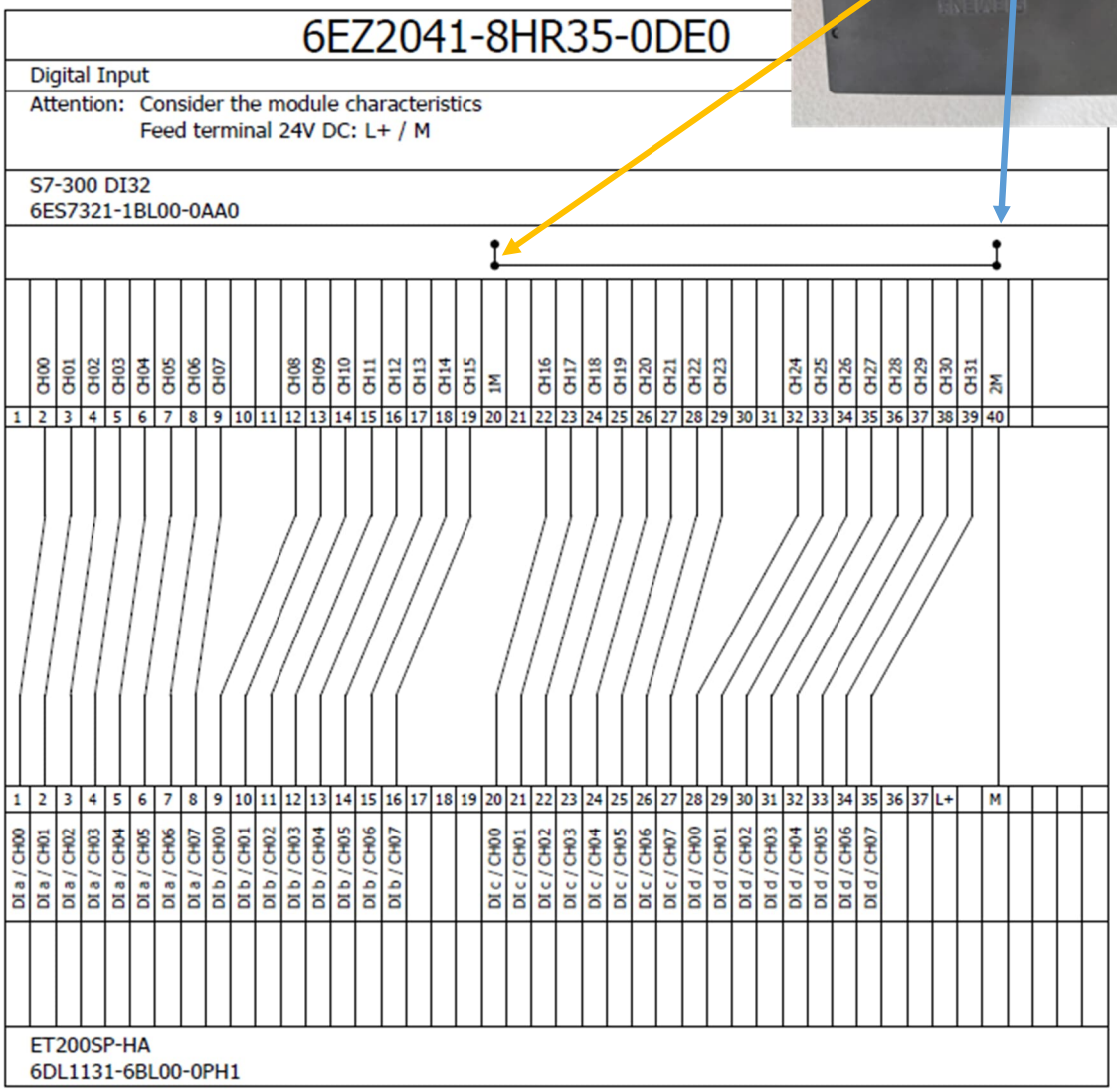
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I/O-Adapter S7/300 (ET 200M) --> ET 200SP HA

Wiring diagram

Modules of ET 200M can have more than one potential group, die ET 200SP HA has one potential group. Interrupting the bridges specifies which potential of the ET 200-module is connected to the ET 200SP HA module.
Each adapter has its specific wiring, EPLAN macros are available.

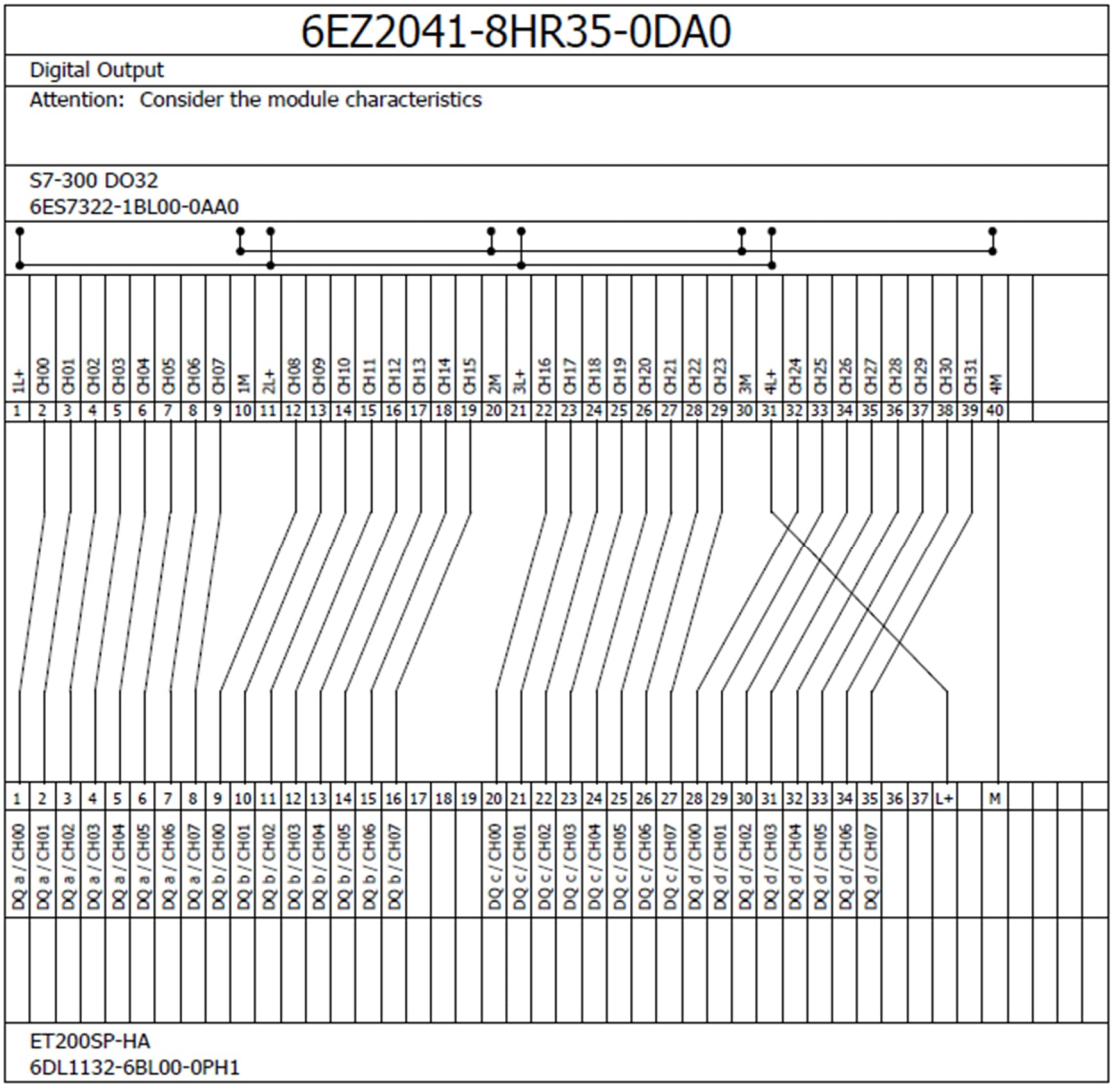




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I/O-Adapter S7/300 (ET 200M) --> ET 200SP HA

Wiring diagram



EMV / EMC

EMC / EMV following EMV-Richtlinie 2014/30/EU:

- up to a cable length of 1 m there is no problem with EMC
- 1m to 3m: a concept for EMC / EMV is recommended
- cable length >3m: concept for EMC / EMV is obligatory

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ET200M --> ET200SP HA-DSUB

S7-300 // ET200M				Adapter	BaseUnit 37 Pol. Sub-D	ET200SP HA		Comment
DI								
6ES7321-1BL00-0AA0	32 DI	24 VDC		**6EZ2041-8HR35-0DE0**	6DL1193-6TC00-0DH0	6DL1131-6BL00-0PH1	32 DI	
							24 VDC HA	
6ES7321-7BH01-0AB0	16 DI	24 VDC		**6EZ2041-8HR35-1DE0**	6DL1193-6TC00-0DH0	6DL1131-6BH00-0PH1	16 DI	
							24 VDC HA	
6ES7321-7TH00-0AB0	16 DI	24 VDC		**6EZ2041-8HR35-2DE0**	6DL1193-6TC00-0DH0	6DL1131-6TH00-0PH1	16 DI	
		Namur					24 VDC/ Namur HA	
6ES7321-1BH02-0AA0	16 DI	24 VDC	0,5 A	**6EZ2041-8HR35-3DE0**	6DL1193-6TC00-0DH0	6DL1131-6BH00-0PH1		Feed terminal 24V DC: L+ / M
6ES7321-1BH50-0AA0	16 DI	24 VDC	0,5 A	**6EZ2041-8HR35-4DE0**	6DL1193-6TC00-0DH0	6DL1131-6BH60-0PH1		Feed terminal 24V DC: L+ / M
	NPN							

date issued: 07/24

ET200M --> ET200SP HA-DSUB

S7-300 // ET200M				Adapter	BaseUnit 37 Pol. Sub-D	ET200SP HA		Comment
DO								
6ES7322-1BL00-0AA0	32 DO	24 VDC	0,5 A	**6EZ2041-8HR35-0DA0**	6DL1193-6TC00-0DH0	6DL1132-6BL00-0PH1	32 DO	
							24 VDC / 0,5A HA	
6ES7322-8BH10-0AB0	16 DO	24 VDC	0,5 A	**6EZ2041-8HR35-1DA0**	6DL1193-6TC00-0DH0	6DL1132-6BH00-0PH1	16 DO 24 VDC / 0,5A HA	
6ES7322-8BH01-0AB0								
6ES7322-8BH00-0AB0								
6ES7322-1BH01-0AA0	16 DO	24 VDC	0,5 A	**6EZ2041-8HR35-2DA0**	6DL1193-6TC00-0DH0	6DL1132-6BH00-0PH1		terminals "1L+" and "1M" are connected internal. Wire have to be disconnected external at S7-300
								plug, from these terminals
6ES7322-8BF00-0AB0	8 DO	24 VDC	0,5 A	**6EZ2041-8HR35-3DA0**	6DL1193-6TC00-0DH0	6DL1132-6BH00-0PH1		

date issued: 07/24

ET200M --> ET200SP HA-DSUB

S7-300 // ET200M				Adapter	BaseUnit 37 Pol. Sub-D	ET200SP HA		Comment
AI								
6ES7331-7HF01-0AB0	8 AI	Strommessung / current measurement		**6EZ2041-8HR35-0AE0**	6DL1193-6TC00-0DH0	6DL1134-6TH00-0PH1	16 AI	Strommessung / current measurement
		transducer 2-wire / 4 wire ?						
6ES7331-7NF00-0AB0	8 AI	voltage measuring		**6EZ2041-8HR35-1AE0**	6DL1193-6TC00-0DH0	6DL1134-6AF00-0PH1	8AI	
6ES7331-7PF01-0AB0	8 AI	RTD		**6EZ2041-8HR35-2AE0**	6DL1193-6TC00-0DH0	6DL1134-6JH00-0PH1	16 AI	
6ES7331-7PF11-0AB0	8 AI	TC		**6EZ2041-8HR35-3AE0**	6DL1193-6TC00-0DH0	6DL1134-6JH00-0PH1	16 AI	
6ES7331-7TF01-0AB0	8 AI	8* I HART		**6EZ2041-8HR35-4AE0**	6DL1193-6TC00-0DH0	6DL1134-6TH00-0PH1	16 AI	16 * 2-wire HART HA
		Strommessung / current measurement						
6ES7331-7NF00-0AB0	8 AI	Strommessung / current measurement		**6EZ2041-8HR35-1AE2**	6DL1193-6TC00-0DH0	6DL1134-6AF00-0PH1	8 AI	
		transducer 4 wire						

date issued: 07/24

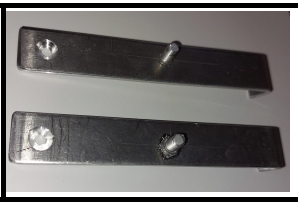
S7-300 // ET200M				Adapter	BaseUnit 37 Pol. Sub-D	ET200SP HA		Comment
6ES7331-7KF01-0AB0	8 AI	8* U/I/R/T		**6EZ2041-8HR35-5AE0**	6DL1193-6TC00-0DH0	6DL1134-6AF00-0PH1	8 AI	
6ES7331-7KF02-0AB0		Spannungsmessung / voltage measurement						
6ES7331-7KF01-0AB0	8 AI	8* U/I/R/T		**6EZ2041-8HR35-5AE1**	6DL1193-6TC00-0DH0	6DL1134-6AF00-0PH1	8 AI	
6ES7331-7KF02-0AB0		Strommessung 2-Draht / current measurement 2-wire						
6ES7331-7KF01-0AB0	8 AI	8* U/I/R/T		**6EZ2041-8HR35-5AE2**	6DL1193-6TC00-0DH0	6DL1134-6AF00-0PH1	8 AI	8x U/I/RTD/TC
6ES7331-7KF02-0AB0		Strommessung 4-Draht / current measurement 4-wire						
6ES7331-7KF01-0AB0	8 AI	8* U/I/R/T		**6EZ2041-8HR35-5AE3**	6DL1193-6TC00-0DH0	6DL1134-6AF00-0PH1	8 AI	8x U/I/RTD/TC
6ES7331-7KF02-0AB0		R/T-measurement						
6ES7331-7NF10-0AB0	8 AI	voltage measuring		**6EZ2041-8HR35-6AE0**	6DL1193-6TC00-0DH0	6DL1134-6AF00-0PH1	8AI	

S7-300 // ET200M				Adapter	BaseUnit 37 Pol. Sub-D	ET200SP HA		Comment
6ES7331-7NF10-0AB0	8 AI	current measuring / 4-wire transducer		**6EZ2041-8HR35-6AE2**	6DL1193-6TC00-0DH0	6DL1134-6AF00-0PH1	8AI	
6ES7331-1KF01-0AB0	8 AI	voltage measuring		**6EZ2041-8HR35-7AE0**	6DL1193-6TC00-0DH0	6DL1134-6AF00-0PH1	8AI	
6ES7331-1KF02-0AB0								
6ES7331-1KF01-0AB0	8 AI	current measuring / 4-wire transducer		**6EZ2041-8HR35-7AE2**	6DL1193-6TC00-0DH0	6DL1134-6AF00-0PH1	8AI	
6ES7331-1KF02-0AB0								
6ES7331-1KF01-0AB0	8 AI	2 wire RTD		**6EZ2041-8HR35-7AE3**	6DL1193-6TC00-0DH0	6DL1134-6JH00-0PH1	16AI	
6ES7331-1KF02-0AB0								
6ES7331-1KF01-0AB0	8 AI	3 wire RTD		**6EZ2041-8HR35-7AE4**	6DL1193-6TC00-0DH0	6DL1134-6JH00-0PH1	16AI	
6ES7331-1KF02-0AB0								

S7-300 // ET200M				Adapter	BaseUnit 37 Pol. Sub-D	ET200SP HA		Comment
AO								
6ES7332-5HF00-0AB0	8 AO	Stromausgang / current output		**6EZ2041-8HR35-0AA0**	6DL1193-6TC00-0DH0	6DL1135-6TF00-0PH1	8 AO	
6ES7332-8TF01-0AB0	8 AO	Stromausgang / current output		**6EZ2041-8HR35-1AA0**	6DL1193-6TC00-0DH0	6DL1135-6TF00-0PH1	8 AO	I HART HA
								current output
6ES7332-5HB01-0AB0	2 AO	current output		**6EZ2041-8HR35-2AA0**	6DL1193-6TC00-0DH0	6DL1135-6TF00-0PH1	8 AO	
6ES7332-5HD01-0AB0	4 AO	current output		**6EZ2041-8HR35-3AA0**	6DL1193-6TC00-0DH0	6DL1135-6TF00-0PH1	8 AO	

S7-300 // ET200M		Adapter	BaseUnit 37 Pol. Sub-D	ET200SP HA	Comment
open ended	20 pin frontconnector S7-300	6EZ2041-8HR10-1DU0	cable length is 0,5m	single conductor 0,5mm²	
open ended	40 pin frontconnector S7-300	6EZ2041-8HR10-0DU0	cable length is 0,5m	single conductor 0,5mm²	

Zubehör / accessories

Montagewinkelset / spacer	6EZ2041-8HR35-0BG1		reduced hight 20mm
fixing set 1	6EZ2041-8HR35-1BG0		
fixing set 2	6EZ2041-8HR35-2BG0		
fastening bolt (Verpackungseinheit 5St./packaged unit)	6EZ2041-8HR35-3BG0		