

Connection interfaces

Advantys Telefast ABE 7 pre-wired system Passive connection sub-bases



Passive connection sub-base for discrete inputs/outputs

Optimum "Low cost" sub-bases

Function	No. of channels	No. of terminals per channel	No. of terminals on row	For PLCs	Length of PLC connection cable	Type of connection	Reference	Weight
					m			kg
Input or output	16	1	2	Modicon TSX Micro	1	Screw	ABE 7H20E100	0.330
				Modicon Premium (1)	2	Screw	ABE 7H20E200	0.410
					3	Screw	ABE 7H20E300	0.480
				Siemens S7	1.5	Screw	ABE 7H32E150	0.360
					3	Screw	ABE 7H32E300	0.460

Optimum "Miniature" sub-bases

Function	No. of channels	No. of terminals per channel	No. of terminals on row	LED per channel	Polarity distribution	Type of connection	Reference	Weight			
								kg			
Input or output	16	1	1	No	No	Screw	ABE 7H16C10	0.160			
				Yes	No	Screw	ABE 7H16C11	0.160			
			2	2	Yes	0 or 24 V	Screw	ABE 7H16C21	0.205		
					Yes	0 or 24 V	Screw	ABE 7H16C31	0.260		
			Input and output (2)	16	1	1	Yes	No	Screw	ABE 7H16CM11	0.160
							Yes	0 or 24 V	Screw	ABE 7H16CM21	0.200



(1) **ABE 7H20E000** input or output sub-bases are not compatible with Modicon M340 PLCs.

(2) 8 I + 8 O: these products have 2 commons connections which enable inputs and outputs to be connected to the same sub-base at the same time.



ABE 7H16R50



ABE 7H16R31

Passive connection sub-base for discrete signals (continued)

Universal sub-bases

Function	No. of channels	No. of terminals per channel on row number		LED per channel	Polarity distribution	Isolator (I) Fuse (F) per channel	Type of connection	Reference	Weight kg	
Input or output	8	1	1	No	No	–	Screw	ABE 7H08R10	0.187	
				Yes	No	–	Screw	ABE 7H08R11	0.187	
		2	2	Yes	0 or 24 V	–	Screw	ABE 7H08R21	0.218	
							I	Screw	ABE 7H08S21	0.245
	12	1	1	No	No	–	Screw	ABE 7H12R10	0.274	
				Yes	No	–	Screw	ABE 7H12R11	0.274	
		2	2	No	No	–	Screw	ABE 7H12R50	0.196	
				Yes	0 or 24 V	–	Screw	ABE 7H12R20	0.300	
		2	2	Yes	0 or 24 V	–	Screw	ABE 7H12R21	0.300	
							I	Screw	ABE 7H12S21	0.375
	16	1	1	No	No	–	Screw	ABE 7H16R10	0.274	
				Yes	No	–	Screw	ABE 7H16R11	0.274	
		2	2	No	No	–	Screw	ABE 7H16R50	0.196	
				Spring	ABE 7H16R50E	0.196				
2		2	No	0 or 24 V	–	Screw	ABE 7H16R20	0.300		
						Spring	ABE 7H16R20E	0.300		
		2	2	Yes	0 or 24 V	–	Screw	ABE 7H16R21	0.300	
							Spring	ABE 7H16R21E	0.300	
							I	Screw	ABE 7H16S21	0.375
							Spring	ABE 7H16S21E	0.375	
3		3	3	No	0 or 24 V	–	Screw	ABE 7H16R30	0.346	
				Yes	0 or 24 V	–	Screw	ABE 7H16R31	0.346	
Type 2 input (1)	16	2	2	Yes	0 or 24 V	–	Screw	ABE 7H16R23	0.320	
Input	16	2	1	Yes	24 V	I, F (2)	Screw	ABE 7H16S43	0.640	
Output	16	2	1	Yes	0 V	I, F (2)	Screw	ABE 7H16F43	0.640	

(1) For Modicon Premium.

(2) With LED to indicate blown fuse.

Connection interfaces

Advantys Telefast ABE 7 pre-wired system
Discrete input/output adaptation sub-bases
with soldered relays and removable terminal blocks

Adaptation sub-bases with soldered relays, removable terminal blocks

Input Universal sub-bases with solid state relays

No. of channels	No. of terminals per channel	Isolation PLC/Operative part	Voltage	Type of connection	Reference	Weight kg
16	2	Yes	≡ 24 V	Screw	ABE 7S16E2B1	0.370
				Spring	ABE 7S16E2B1E	0.370
			≡ 48 V	Screw	ABE 7S16E2E1	0.370
				Spring	ABE 7S16E2E1E	0.370
			~ 48 V	Screw	ABE 7S16E2E0	0.386
				Spring	ABE 7S16E2E0E	0.386
			~ 110 V	Screw	ABE 7S16E2F0	0.397
				Spring	ABE 7S16E2F0E	0.397
			~ 230 V	Screw	ABE 7S16E2M0	0.407
				Spring	ABE 7S16E2M0E	0.407

Output Universal sub-bases with solid state relays

No. of channels	Isolation PLC/Operative part	Output voltage	Output current	Fault detection signal (1)	Type of connection	Reference	Weight kg
8	No	≡ 24 V	0.5 A	Yes (2)	Screw	ABE 7S08S2B0	0.252
					Spring	ABE 7S08S2B0E	0.252
			2 A	Yes (2)	Screw	ABE 7S08S2B1	0.448
					Spring	ABE 7S08S2B1E	0.448
16	No	≡ 24 V	0.5 A	Yes (2)	Screw	ABE 7S16S2B0	0.405
					Spring	ABE 7S16S2B0E	0.405
			Non		Screw	ABE 7S16S1B2	0.400
					Spring	ABE 7S16S1B2E	0.400

Output Optimum & Universal sub-bases with electromechanical relays

No. of channels	Relay width	Number of contacts	Output current	Polarity distribution/operative part	Type of connection	Reference	Weight kg
8	5 mm	1 N/O	2 A	Contact common per group of 4 channels	Screw	ABE 7R08S111	0.252
					Spring	ABE 7R08S111E	0.252
		Latching	2 A	Volt-free	Screw	ABE 7R08S216	0.448
	Spring				ABE 7R08S216E	0.448	
	10 mm	1 N/O	5 A	Volt-free	Screw	ABE 7R08S210	0.448
					Spring	ABE 7R08S210E	0.448
16	5 mm	1 N/O	2 A	Contact common per group of 8 channels	Screw	ABE 7R16S111	0.405
					Spring	ABE 7R16S111E	0.405
		10 mm	1 N/O	5 A	Volt-free	Screw	ABE 7R16S210
	Spring					ABE 7R16S210E	0.405
	Common per group of 8 channels on both poles				Screw	ABE 7R16S212	0.400
					Spring	ABE 7R16S212E	0.400

(1) A fault on a sub-base output Qn will set PLC output Qn to safety mode, which will be detected by the PLC.

(2) Can only be used with modules with protected outputs.



ABE 7R08S216

Connection interfaces

Advantys Telefast ABE 7 pre-wired system
Discrete input/output adaptation sub-bases
for or with plug-in relays

Adaptation sub-bases, for plug-in relays

Input Universal sub-bases for solid state relays (1)

No. of channels	No. of terminals per channel	For relay type	Isolation PLC/Operative part	Input connection	Type of connection	Reference	Weight kg
16	2	ABS 7E	Yes	Volt-free	Screw	ABE 7P16F310	0.850
		ABR 7			Spring	ABE 7P16F310E	0.850
		ABS 7S33E			Polarity distribution	Screw	ABE 7P16F312

Output Optimum & Universal sub-bases with electromechanical relays (2)

No. of channels	Relay width	For relay type	No. and type of contacts	Polarity distribution/operative part	Reference	Weight kg		
16	5 mm	ABR 7S11	1 N/O	Contact common per group of 4 channels	ABE 7R16T111	0.600		
				Contact common per group of 4 output channels + 2 input common terminals	ABE 7R16M111 (3)	0.600		
	10 mm	ABR 7S21	1 N/O	Volt-free	Common on both poles (4)	ABE 7R16T210	0.735	
						ABE 7R16T212	0.730	
			ABR 7S23	1 C/O	Volt-free	Common on both poles (4)	ABE 7R16T230	0.775
						Contact common (4)	ABE 7R16T231	0.730
	12 mm	ABR 7S33	1 C/O		Volt-free	Common on both poles (5)	ABE 7R16T330	1.300
							ABE 7R16T332	1.200
			ABR 7S37	2 C/O	Volt-free	ABE 7R16T370	1.300	



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ABE 7R16M111



522345
ABE 7R16T210

(1) Not equipped with relays.

(2) Both technologies (electromechanical and solid state) may be combined on the same sub-base.

(3) 2 connection methods are available, enabling inputs and outputs to be connected to the same sub-base at the same time.

(4) Per group of 8 channels.

(5) Per group of 4 channels.

Connection interfaces

Advantys Telefast ABE 7 pre-wired system

Discrete output adaptation sub-bases for plug-in relays

Adaptation sub-bases for plug-in relays (1)

Output Optimum & Universal sub-bases for solid state and/or with electromechanical relays (2)

No. of channels	Relay width	For relay type	Isolator per channel	Fuse per channel	Polarity distribution/operative part	Type of connection	Reference	Weight kg	
16	5 mm	ABR 7S11 ABS 7SC1B	No	No	Contact common per group of 4 channels		ABE 7P16T111	0.550	
							ABE 7P16M111 (2)	0.550	
16	10 mm	ABR 7S2● ABS 7SA2● ABS 7SC2● ABE 7ACC20	No	No	Volt-free	Screw	ABE 7P16T210 (3)	0.615	
						Screw	ABE 7P16T230 (3)	0.655	
						Spring	ABE 7P16T230E (3)	0.655	
						Spring	ABE 7P16T230E (3)	0.655	
16	10 mm				Yes	Volt-free	Screw	ABE 7P16T214	0.675
							Screw	ABE 7P16T212	0.615
16	10 mm				Yes	Common on both poles (4)	Screw	ABE 7P16T215	0.670
							Screw	ABE 7P16T215	0.670
8	12 mm	ABR 7S33 ABS 7A3● ABS 7SC3●● ABE 7ACC21	No	No	Volt-free	Screw	ABE 7P08T330	0.450	
						Spring	ABE 7P08T330E	0.450	
16	12 mm	ABR 7S33 ABS 7A3● ABS 7SC3●● ABE 7ACC21	No	No	Volt-free	Screw	ABE 7P16T330	0.900	
						Spring	ABE 7P16T330E	0.900	
						Spring	ABE 7P16T330E	0.900	
16	12 mm				Common on both poles (5)	Screw	ABE 7P16T332	0.900	
						Screw	ABE 7P16T332	0.900	
16	12 mm	ABR 7S33 ABS 7A3M ABS 7SC3E ABE 7ACC21	No	Yes	Volt-free	Screw	ABE 7P16T334	0.900	
						Spring	ABE 7P16T318E	1.000	
16	12 mm		Yes	Yes	Common on both poles (5)	Screw	ABE 7P16T318	1.000	
						Spring	ABE 7P16T318E	1.000	



ABE 7P16T2●●

(1) Not equipped with relays.

(2) 2 connection methods are available, enabling inputs and outputs to be connected to the same sub-base at the same time.

(3) With relay ABR 7S21 for sub-base ABE 7P16T210, with relay ABR 7S23 for sub-base ABE 7P16T230●.

(4) Per group of 8 channels.

(5) Per group of 4 channels.



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ABS 7SC1B

Plug-in solid state relays

Relay width	Functions	Input circuit		Output circuit		Unit reference	Weight	
		Current	Nominal voltage	Current (1)	Nominal voltage			
5 mm	Output	---	24 V	2 A	--- 24 V	ABS 7SC1B	0.010	
10 mm	Output	---	24 V	0.5 A	--- 5...48 V	ABS 7SC2E	0.016	
					~ 24...240 V	ABS 7SA2M	0.016	
12 mm	Input	---	5 V TTL	–	--- 24 V	ABS 7EC3AL	0.014	
			24 V	–	--- 24 V	ABS 7EC3B2	0.014	
			Type 2	–	--- 24 V	ABS 7EC3E2	0.014	
			48 V	–	--- 24 V	ABS 7EC3E2	0.014	
			Type 2	–	--- 24 V	ABS 7EC3E2	0.014	
			~ 50 Hz	48 V	–	--- 24 V	ABS 7EA3E5	0.014
			~ 60 Hz	110...130 V	–	--- 24 V	ABS 7EA3F5	0.014
~ 50 Hz	230...240 V	–	--- 24 V	ABS 7EA3M5	0.014			
Output	---	24 V	2 A Self-protected	--- 24 V	ABS 7SC3BA	0.016		
				1.5 A	--- 5...48 V	ABS 7SC3E	0.016	
				~ 24...240 V	ABS 7SA3MA	0.016		

Plug-in electromechanical relays

Relay width	Control voltage	Output current (1)	Number of contacts	Sold in lots of	Unit reference	Weight
5 mm	--- 24 V	5 A (lth)	1 N/O	4	ABR 7S11	0.005
10 mm	--- 24 V	5 A (lth)	1 N/O	4	ABR 7S21	0.008
			1 C/O	4	ABR 7S23	0.008
12 mm	--- 24 V	10 A (lth)	1 C/O	4	ABR 7S33	0.017
		8 A (lth)	2 C/O	4	ABR 7S37	0.017
		--- 48 V	8 A (lth)	1 C/O	4	ABR 7S33E

Accessory

Description	Reference	Weight
Extractor for 5 mm miniature relays	ABE 7ACC12	0.010

(1) See characteristics table for specifications of relays in the sub-bases.



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ABR 7S2●



816474

ABR 7S3●