

4 - Connection interfaces Telefast® 2 pre-wired system

Presentation and compatibility

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References

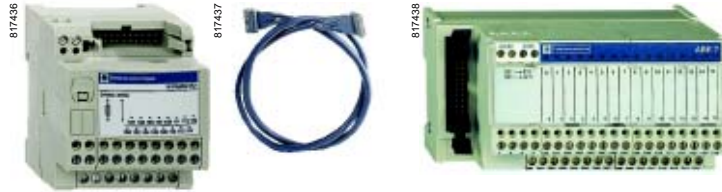
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Connection interfaces

Telefast® 2 pre-wired system

Discrete input and/or output sub-bases

Applications **Discrete input or output**



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Relay amplification	-			
Equipped with relay	-			
Control voltage	~ 24 V			
Output voltage	~ 24 V			
Output current per channel	0.5 A			
Modularity	16	8 -12 -16		
No. of terminals per channel	1	1 to 3	1	2
Type of connection terminals	Signal	Signal, common (configurable ~ 24 V or 0 V)	Signal	Signal, Common (configurable ~ 24 V or 0 V)
Connectors	20-way HE10 connector			
Terminal block	Removable	No		No
	Type of terminals	Screw		Screw or spring
Additional or optional* function	Low cost version fitted with cable	Miniature sub-bases	Compact size *	Type 2 input * (1)
Device type	ABE-7H20E●●● 7H32E●●●	ABE-7H16C●●	ABE-7H●●R1● 7H●●R50	ABE-7H●●R2● 7H●●S21
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(1) For TSX Micro and TSX Premium PLCs.

Discrete input and output



-		Removable electromechanical or solid state	
-		No	Yes
= 24 V			
= 24 V		= 24 V (solid state) = 5... 24 V, ~ 230 V (electromechanical)	
0.5 A	0.5 A	5 A (E.M.), 2 A (solid state)	5 A (th)
16		16 8 passive inputs 8 relay outputs	
1	2	1	
Signal, 2 common connections between the inputs and the outputs.		Signal, common, 2 common connections between the inputs and the outputs.	
1 N/O contact and common, 4 output channels		2 input connection points	
20-way HE10 connectors			
No			
Screw			
Miniature sub-base Synergy with Tego Power and API Micro PLC		Miniature sub-base - Common per 4 channels Synergy with Tego Power and API Micro PLC	
ABE-7H16CM11	ABE-7H16CM21	ABE-7P16M111	ABE-7R16M111
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Connection interfaces

Telefast® 2 pre-wired system

Discrete input and output sub-bases

Applications

Discrete output



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Relay amplification	Electromechanical, fixed		Electromechanical or solid state		
Equipped with relay	Yes		Yes	No	No
Control voltage	≍ 24 V				
Output voltage	≍ 5 V... 30 V ~ 230 V		≍ 5 V... 150 V ~ 230 V	≍ 24 V (solid state) ≍ 5 V... 24 V, ~ 230 V (E.M.)	
Output current per channel	2 A (th)	3 A (th)	5 A (th)	2 A (solid state), 6 A (electromechanical)	
Modularity	8	8 - 16		16	8 or 16
No. of terminals per channel	2	1	2	1	2 to 3
Type of connection terminals	1 N/O contact and common Volt-free	1 N/O contact	1 N/O contact and common	1 N/O contact	Signal, Polarities
Connectors	20-way HE 10 connector				
Terminal block	Removable		No		
	Yes	Yes	Yes	No	
Type of terminals	Screw or spring			Screw	Screw or spring
Additional or optional* function	Miniature sub-base Bistable relay	Volt-free or common per 8 channels		Miniature sub-bases Common per 4 channels	
Device type	ABE-7R08S216●	ABE-7R●●S1●●	ABE-7R●●S2●●	ABE-7R16T111	ABE-7P16T111
					ABE-7P16T2●●● 7P08T3●●●
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(1) For TSX Micro and TSX Premium PLCs.

Discrete input



Electromechanical, removable	Solid state, fixed	-	-	Solid state, fixed	Solid state, removable
Yes	Yes	-	-	Yes	No

				From \sim 24 V to \sim 230 V	From 5 V TTL to \sim 230 V
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\sim 5 V... 150 V \sim 230 V	\sim 24 V					
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5A (th)	8 A (th)	from 0.5 to 2 A	125 mA	0.5 A	125 mA	12 mA
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16						
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2 to 3	2 to 6	2	3	2		
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1 C/O contact or 1 N/O contact and common	1 C/O contact or 2 C/O contacts and common	Signal and 0 V	Signal \sim 24 V and 0 V	Signal can be isolated, Protected common	Signal	Signal and common
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No	Yes	No	No	Yes	No
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Screw	Screw or spring		Screw	Screw or spring	
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Volt-free or common per: 8 channels	4 channels	Fault signal	Isolator and fuse (indicator)	3-wire proximity sensor	Isolator and fuse (indicator)	-
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ABE-7R16T2 ●●	ABE-7R16T3 ●●	ABE-7S ●● S2B ●	ABE-7H16F43	ABE-7H16R3 ●	ABE-7H16S43	ABE-7S16E2 ●●	ABE-7P16F31 ●
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Applications Analogue signals and special functions



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Compatibility	TSX Micro	TSX Premium	Standard	
Type of signal	Counter inputs and analogue I/O	Counter inputs Axis control Position control	Analogue inputs Current Voltage Pt 100	Analogue outputs Current Voltage
Functions	Passive connection, point-to-point with shield continuity			
Modularity	1 counter channel or 8 analogue inputs + 2 analogue outputs	8 channels	4 channels	
Control voltage	~ 24 V			
Output voltage	~ 24 V			
Output current per channel	25 mA			
Number of terminals per channel	2	2 or 4	2 or 4	
Type of connector	15-way SUB-D + 9-way SUB-D		25-way SUB-D	
Terminal block	No		No	
Removable	No		No	
Type of terminals	Screw		Screw	
Device type	ABE-7CPA01	ABE-7CPA02	ABE-7CPA21	
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	TSX Premium TSX AEY810	TSX Premium TSX CAY●1 TSX CTY2C	TSX Premium TSX AEY1614	TSX Premium TSX PAY2●2
Analogue inputs Current Voltage Pt 100	Isolated analogue inputs	Inputs Counter	Inputs for thermocouples	I/O
Distribution of sensor power supplies per limiter (25 mA)	Distribution of isolated sensor power supplies per converter	Acquisition of value from an absolute encoder	Connection of 16 thermocouples with cold junction compensation	Safety module (BG)
8 channels	8 channels	1 channel	16 channels	12 Emergency stops
				–
		–	2 or 4	1
25-way SUB-D	25-way SUB-D	15-way SUB-D	25-way SUB-D	50-way SUB-D
No	No	No	No	No
Screw	Screw or spring	Screw	Screw	Screw
ABE-7CPA03	ABE-7CPA31●	ABE-7CPA11	ABE-7CPA12	ABE-7CPA13

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