



ABR1E411F



ABR2E112E



ABR1S111F



ABR2S102B

Electromechanical Relay Input Interface Modules

The electromechanical relay modules are for discrete digital input or output control signals exchanged in automated equipment. Features include:

- High contact reliability
- LED indication of the control signal state
- 5 separate character places for marking
- 35 mm DIN 3 or 32 mm DIN 1 track mountable

Table 23.200: Input Modules

Coil Voltage	Options	1 N.O. Contact	1 C.O. Contact	2 N.O. Contacts	\$ Price
		Catalog Number	Catalog Number	Catalog Number	
24 Vac/Vdc	Manual Operator and LED Indication	ABR1E118B▲	ABR1E318B▲	ABR1E418B▲	54.00
48 Vac/Vdc		ABR1E118E▲	ABR1E318E▲	ABR1E418E▲	
110–125 Vdc		ABR1E112F▲	ABR1E312F▲	ABR1E412F▲	
110–127 Vac 50/60 Hz		ABR1E111F▲	ABR1E311F▲	ABR1E411F▲	
230–240 Vac 50/60 Hz		ABR1E111M▲	ABR1E311M▲	ABR1E411M▲	
230–240 Vac 50/60 Hz	Manual Operator	ABR1E101M▲	ABR1E301M▲	—	41.10
24 Vdc	LED Indication	ABR2E112B	—	—	
48 Vdc		ABR2E112E	—	—	
120–127 Vac 60 Hz		ABR2E116F	—	—	
230–240 Vac 50/60 Hz		ABR2E111M	—	—	
24 Vdc		—	ABR2EB312B	—	60.00

▲ RoHS Compliant

Table 23.201: Output Modules

Coil Voltage	Options	1 N.O. Contact	1 C.O. Contact	2 N.O. Contacts	1 N.C. & 1 N.O. Contact	\$ Price
		Catalog Number	Catalog Number	Catalog Number	Catalog Number	
24 Vdc	Manual Operator	ABR1S102B■	ABR1S302B■	ABR1S402B■	ABR1S602B■	41.10
24 Vac/Vdc	Manual Operator and LED Indication	ABR1S118B■	ABR1S318B■	ABR1S418B■	ABR1S618B■	55.00
48 Vac/Vdc		ABR1S118E■	ABR1S318E■	ABR1S418E■	ABR1S618E■	
110–127 Vac 50/60 Hz		ABR1S111F■	ABR1S311F■	ABR1S411F■	ABR1S611F■	
24 Vdc	LED Indication	ABR2S112B	—	—	—	31.70
48 Vdc	—	—	ABR2SB312B	—	—	63.00
24 Vdc	—	ABR2S102B	—	—	—	20.60

■ RoHS Compliant

Table 23.202: Coil Data

Relay		ABR1E					ABR2E				ABR2EB	ABR1S					ABR2S	ABR2SB
Coil Voltage U _e	V	24 Vac/Vdc	48 Vac/Vdc	127 Vdc	127 Vac	240 Vac	24 Vdc	48 Vdc	127 Vac	240 Vac	24 Vdc	24 Vdc	24 Vdc	48 Vac/Vdc	127 Vac	24	24	24
Maximum Voltage	V	30	53	137	140	255	28.8	56	140	264	28.8	30	30	53	140	28.8	28.8	28.8
Pick-up Voltage	V	17	38	97	93	195	16.9	37.3	97	186	16.9	17	17	38	83	16.9	16.9	16.9
Minimum Sealed Current	mA	5.2	5.4	1.5	2.4	2	2	2	2.5	2.5	2	6.6	6.2	5.4	2.4	2	2	2
Maximum Sealed Current	mA	62	36	15	8	7	19.5	11	16	15	29	62	62	36	8	28	17	29

Table 23.203: Contact Ratings

Relay		ABR1E	ABR2E	ABR2EB	ABR1S	ABR2S	ABR2SB
Rated Voltage U _e	Vac	250	115	48	250	230	48
Rated Voltage U _e	Vdc	125	100	48	125	120	48
Thermal Current I _{th}	A	2	1	0.05	5	5	0.05
Break Rating (AC14)	A	1	0.5	1	1	1	—
Break Rating (DC13)	A	1	1	1	1	1.5	—

Table 23.204: Dimensions

Modules	Approximate Dimensions (WxDxH)♦	
	In.	mm
ABR1E, ABR2EB, ABR2SB	0.69 x 2.91 x 2.78	17.5 x 74 x 70.5
ABR2E	0.37 x 2.91 x 2.78	9.5 x 74 x 70.5
ABR2S1	0.47 x 2.91 x 2.78	12 x 74 x 70.5

♦ Dimensions mounted on DIN 3 track (7.5 mm high).

Table 23.205: Approvals

ABR1E, ABR2E	UL E39281, CSA LR81630 30, IEC 947-1, CE
ABR1S, ABR2S	UL E39281, CSA LR81630 38, IEC 947-1, CE

ABR1 relays are RoHS compliant as of date code 0610.

For Mounting Track, see page 24-16