

Zelio interfaces

Electromechanical interface modules for discrete signals

ABR-1 electromechanical interface modules are supplied in the form of compact modules, 17.5 mm wide.

They are designed for interfacing discrete digital control signals exchanged within an automated system between the processing unit (PLC, numerical controller, etc) and the other components (contactors, solenoid valves, indicator lamps, proximity sensors, etc).

These products are based on contactor technology and are notable for their excellent adaptation to industrial environments, ensured by the fact that they conform to the most recent IEC 947-5-1 standards.

Composition

The ABR-1 range comprises 2 families :

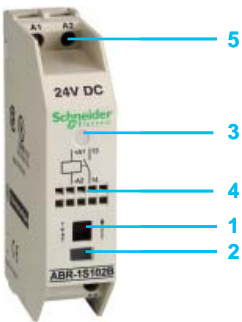
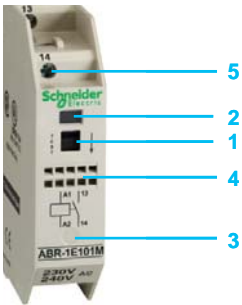
Input interfaces

Input interfaces are designed for switching input signals to the processor and are characterized by their high degree of contact reliability : less than 1 fault per 100 million operating cycles at $\sim 17 \text{ V}, 5 \text{ mA}$.

The switching level is sufficiently high to ensure that the interfaces can directly control most contactors and indicator lamps.

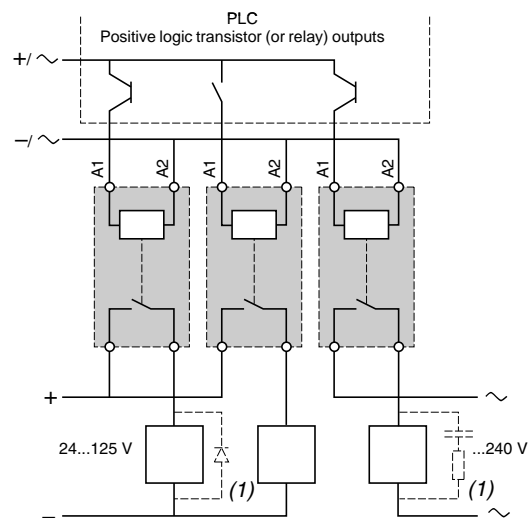
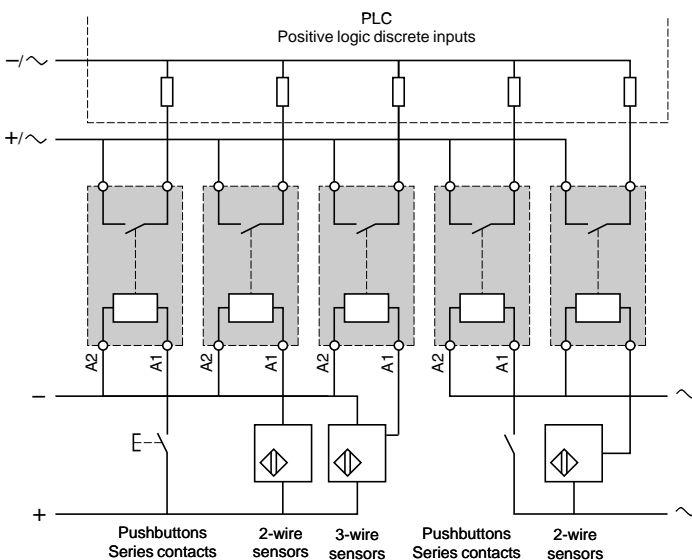
Output interfaces

Output interfaces are designed for the control of preactuators (contactors, solenoid valves, etc) for signalling devices (indicators lamps, audible warnings, etc). They are characterized by a high switching capacity and an average durability 5 times greater than that of traditional interface modules which incorporate standard relays.



- 1 Override contacts by pressing button (not holding it down) for a simple and quick test during setting up or maintenance operations on the installation
- 2 Green indicator showing the mechanical position of the contacts
- 3 LED indicating the control signal state
- 4 Channel identification : 5 individual characters for AB1-R/G or one AB1-SA2 marker tag
- 5 Connection by screw clamp terminal enabling easy attachment of 2 wires per terminal. The layout of the connection terminals for both families (input and output) is designed for rational wiring and a clear separation between the incoming (processing) and outgoing (power and process control) circuits.

Examples of applications with PLCs



(1) Essential on inductive loads (can be replaced with peak limiter).

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Control circuit : a.c. or d.c.



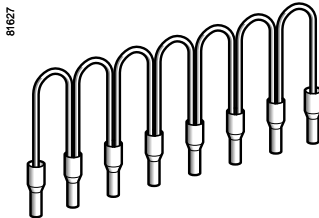
ABR 1E101M



ABR 1E318B



ABR 1S102B



ABF C08R●●●

Input interface modules (1) (17.5 mm pitch)

Display	Composition	Control circuit	Enclosure colour	Reference	Weight
V					
kg					
Mechanical (2)	1 N/O	~ 230/240	Grey	ABR 1E101M	0.090
	1 C/O	~ 230/240	Grey	ABR 1E301M	0.090
Mechanical (2) + LED (3)	1 N/O	~ 24	Grey	ABR 1E118B	0.095
		~ 48	Grey	ABR 1E118E	0.095
		~ 110...127 (4)	Grey	ABR 1E112F	0.095
		~ 115...127	Grey	ABR 1E111F	0.095
		~ 230/240	Grey	ABR 1E111M	0.095
	2 N/O	~ 24	Grey	ABR 1E418B	0.095
		~ 48	Grey	ABR 1E418E	0.095
		~ 110...127(4)	Grey	ABR 1E412F	0.095
		~ 115...127	Grey	ABR 1E411F	0.095
		~ 230/240	Grey	ABR 1E411M	0.095
1 C/O	~ 24	Grey	ABR 1E318B	0.095	
	~ 48	Grey	ABR 1E318E	0.095	
	~ 110...127(4)	Grey	ABR 1E312F	0.095	
	~ 115...127	Grey	ABR 1E311F	0.095	
	~ 230/240	Grey	ABR 1E311M	0.095	

Output terminals-relays (1) (17.5 mm pitch)

Display	Composition	Control circuit	Enclosure colour	Reference	Weight
V					
kg					
Mechanical (2)	1 N/O	~ 24	Grey	ABR 1S102B	0.090
	2 N/O	~ 24	Grey	ABR 1S402B	0.090
	1 C/O	~ 24	Grey	ABR 1S302B	0.090
	1 N/C + 1 N/O	~ 24	Grey	ABR 1S602B	0.090
Mechanical (2) + LED (3)	1 N/O	~ 24	Grey	ABR 1S118B	0.095
		~ 48	Grey	ABR 1S118E	0.095
		~ 115...127	Grey	ABR 1S111F	0.095
	2 N/O	~ 24	Grey	ABR 1S418B	0.095
		~ 48	Grey	ABR 1S418E	0.095
		~ 110	Grey	ABR 1S411F	0.095
	1 C/O	~ 24	Grey	ABR 1S318B	0.095
		~ 48	Grey	ABR 1S318E	0.095
		~ 110	Grey	ABR 1S311F	0.095
	1 N/C + 1 N/O	~ 24	Grey	ABR 1S618B	0.095
		~ 48	Grey	ABR 1S618E	0.095
		~ 110	Grey	ABR 1S611F	0.095

Commoning links

Description	For common	Colour	Distance between cable ends	Reference	Weight
cm					
kg					
Commoning links in modules 8 x 1 mm ²	Coil	White	12	ABF C08R12W	0.020
			2	ABF C08R02W	0.010
	~	Red	12	ABF C08R12R	0.020
			2	ABF C08R02R	0.010
	---	Blue	12	ABF C08R12B	0.020
			2	ABF C08R02B	0.010

(1) Connection by screw-clamp.

(2) By green mechanical indicator light for contact(s) activated electrically or mechanically by pressing the test button.

(3) By green LED illuminated when control signal is present.

(4) With polarization (+ on A1, - on A2).