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Reyrolle 7PG11 – Alpha

Auxiliary Relay

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Description

The 7PG111 and 7PG112 AR range of electromechanical relays are available with upto eight self, hand or electrically reset contacts. They can be supplied in most combinations of contact, flag and reset arrangements. The relays are voltage operated from either AC or DC supplies and have a positive consistent action. Fixed time delay models are also available.

The 7PG11 Auxiliary relays, type AR, are designed to comply with BS142.

Performance

Instantaneous operating time of between 10ms and 50ms with a typical time of 25ms. In excess of 10,000 operations with contact rating at a rate of 600 operations per hour.

Design

Up to 8 contacts with any combination of normally open and normally closed contact. Choice of one or two elements in the same case. Housed in size E2 or E4 standard 4U case.

Key Features

- Number of Elements
- Flag Operation
- Contact Reset
- Suppression diode across Coil
- Series Break Contact to cut off operating coil

Application

- Contact Multiplication
- Alarm Relays
- Repeat Relays
- Follower Relays
- Sacrificial Relays
- General applications where high speed



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Relay features

The relays are identified by a series of numbers and letters which define important relay features.

AR – 1 : Self reset contacts, in any combination of normally open or normally closed as required.

AR – 2: Hand reset contacts, in any combination of normally open or normally closed as required.

AR – 3: Electrical and hand set contacts supplied with a contact reset mechanism in the relay case cover.

AR – 4: Hand and self reset contacts, can be supplied with 2 hand reset contacts and a maximum of 4 self reset contacts. All the contacts may be either normally open or normally closed.

AR – 6: Electrical reset contacts with optional self reset flag.

AR – 3 & 6: Reset coils are short time rated, we recommend that reset circuits include a normally open (cut-off) contact

First Digit	Second Digit	Type of flag	Third Digit	Type of contact rest
Number of identical elements	0	No Flag	1	Self
	1	Hand reset	2	Hand
	2	Hand reset reverse acting	3	Electrical & hand
	3	Self reset	4	Hand & self
	4	Self reset reverse acting	6	Electrical

Suffix letters are used to identify additional features:

Suffix D: indicates a relay fitted with a suppression diode across the coil to reduce the effects of back emf on switch off.

Suffix SB: identifies a relay with a series break contact to cut-off the operating coil, thus the relay burden becomes zero after operation of this contact. Only available with AR relays which have hand reset contacts.

First Digit	Second Digit	Type of flag	Third Digit
AR101	2,4,6 or 8	N.A.	Self
AR103	4,6 or 8	N.A.	Self
AR106	2,4 or 6	N.A.	Self
AR111	2,4,6 or 8	Hand	Self
AR112	2,4,6 or 8	Hand	Elec & Hand
AR113	4, 6 or 8	Hand	Elec & Hand
AR114	4 or 6	Hand	Elec & Hand
AR121	2,4,6 or 8	Hand*	Elec
AR124	4 or 6	Hand*	Elec
AR131	2,4 or 6	Self	Hand
AR133	2,4,6 or 8	Self	Hand & Self
AR136	2,4 or 6	Self	Hand & Self
AR141	2,4 or 6	Self*	Self

*Indicates a reverse acting flag indicating on de-energisation



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The requested performance features are binding only when they are expressly agreed upon in the concluded contract.