

## Features

- 35A contact rating
- High temperature design
- 1 Form A and 1 Form C arrangements
- 2.8mm quick connect
- Ideal use for control car: fuel pump, A/C compressor clutch horn, lighting systems, etc.



## Ordering information

**ERC8 B A - R DC12V**  
 1 2 3 4 5

1 Relay model	5 Rated voltage
2 Contact rating: NIL: 25A (NO) 20A (NC); B: 35A (NO) 25A (NC)	Note: RoHS : RoHS compliant relay
3 Contact arrangement: A: 1 Form A; C: 1 Form C	RoHS-I : AgNi contact
4 Coil suppression: NIL: Standard type; N: With diode; R : With resistor	RoHS-N: AgSnO <sub>2</sub> contact

## Coil rating

Rated voltage (V)	Coil resistance Ω±10%	Rated current (mA)	Must operate voltage	Must dropout voltage	Maximum voltage	Power consumption (W) Approx.	Operate time (ms)	Release time (ms)
			% of rated voltage (at 20°C)					
6	27	222	60 Max.	10 Min.	130 Max.	1.3	<10	<7
12	109	110						
24	436	55						

CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
 2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

## Characteristics

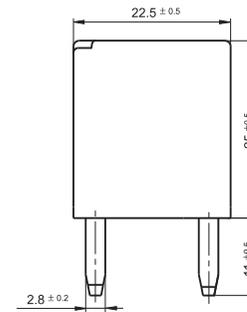
Contact arrangement		SPST (1 Form A); SPDT (1 Form C)
Contact material		Silver alloy
Contact resistance		100mΩ Max.
Contact rating (resistive)		ERC8C : 25A/14VDC (NO) 20A/14VDC (NC) ERC8BC: 35A/14VDC (NO) 25A/14VDC (NC)
Switching power		560W Max.
Switching voltage		DC 75V Max.
Insulation resistance		100MΩ Min. (500VDC)
Dielectric strength		500VAC (50Hz/min)
Shock resistance		200m/s <sup>2</sup> 11ms(20g)
Vibration resistance		1.27mm Double amplitude 10-40Hz
Ambient temperature		-40°C to +85°C (Special request up to 125°C)
Humidity		85% RH, 40°C
Operation life	Mechanical	10 <sup>7</sup>
	Electrical	10 <sup>5</sup>
Weight		21g Approx.

(Specifications are subject to change without notices.)

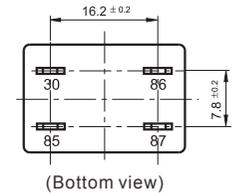
## Dimensions

mm

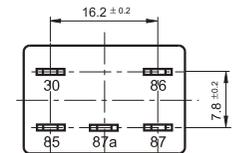
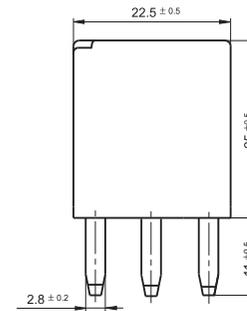
### 1 Form A



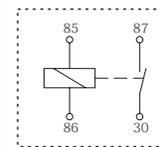
### Mounting holes



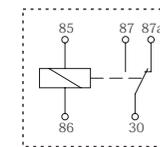
### 1 Form C



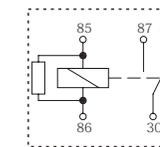
## Wiring diagram



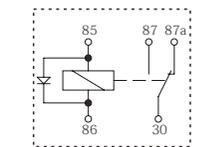
1 Form A



1 Form C



With resistor



With diode



Reference data

