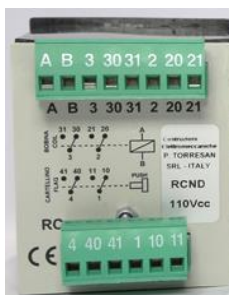


## MODEL

## RCN



## APPLICATIONS

- Control Rooms
- Mimic diagrams

## FEATURES

- High current capacity
- Free position
- Tropicalization up request

## DESCRIPTION

The Flag Relay is constituted by an electromagnet which drives two changeover contacts and optical signalling at three positions with three colours which, in turn, drives two changeover contacts. The electromagnet, the contacts, the signalling mechanism and the card are enclosed in a plastic housing with front plate and plug-connectors. The front plate bears a window that allows the display of the three signals and includes a reset button mechanism. The relay is built in two versions: "energizing" (RCNE) and "de-energizing" (RCND). This relay is ideally suited for any environmental condition. A large number of flag relays can be assembled in banks.

## OPERATION

### Energizing model RCNE

In the normal position (relay de-energized), the colour signal is BLACK. When the coil is driven by appropriate voltage, the indication becomes RED. The two switch contacts of the electromagnet changeover and remain in that position until the electromagnet remains energized. The two switch contacts of the flag changeover too. Pressing the button appears in the colour WHITE and the two contacts of the flag resume the initial position. When you release the button, if the coil is de-energized, the signal returns BLACK, if the coil is still energized, the colour remains WHITE until the de-energizing of the coil.

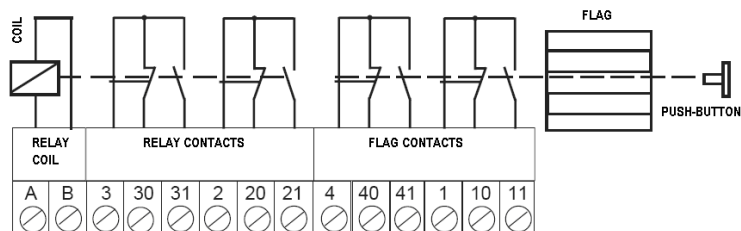
### De-energizing model RCND




























In the normal position (relay energized) the colour of the signal is BLACK. When there is no voltage applied to the coil of the electromagnet, the colour is RED for alarm. The two switch contacts of the electromagnet changeover and remain in that position until the electromagnet remains de-energized. The two switch contacts of the flag changeover too. Pressing the button appears the colour WHITE and the two contacts of the flag resume the initial position. When you release the button, if the coil is energized the signal reappears BLACK, if it is still de-energized, the colour remains WHITE up to the end of energizing.

	TECHNICAL SPECIFICATIONS	UNIT	VALUE
1.	PICK UP DELAY	ms	25
2.	AVAILABLE CONTACTS		2 + 2 NO/NC
3.	NOMINAL CURRENT	A	5 AC o DC
4.	CURRENT AT MAKE	A	10 AC o DC
5.	VOLTAGE	V	220 DC / 230 AC
6.	RATED SUPPLY VOLTAGE	V	110/230 AC ±10% @50/60Hz 24/30/48/110/132/220/250 DC ±10%
7.	DIELECTRIC STRENGTH	kV	2 (50 Hz 1min)
8.	PULSE TEST	kV	5 (1,2/50 us)
9.	POWER CONSUPTION	W	5 VA AC (50 Hz) / 2,5 W DC
10.	PROTECTION CATEGORY IP		IP40
11.	STORAGE TEMPERATURE	°C	-25 ÷ +75
12.	OPERATIVE TEMPERATURE	°C	-10 ÷ +60
13.	CONNECTIONS		Pluggable terminal-blocks 2,5 mm <sup>2</sup>
14.	RELATIVE HUMIDITY HR		95%
15.	MOUNTING		Flash mounting / Accessories: screw brackets
16.	BREAKING CAPACITY PER 220 V DC (LOAD TYPE L / R)	A	0,25/0,4
17.	BREAKING CAPACITY PER 230 V AC (LOAD TYPE L cosφ=0.714 / R)	A	5/7
18.	BREAKING CAPACITY PER 110 V DC (LOAD TYPE L / R)	A	0,5/1
19.	BREAKING CAPACITY PER 24 V DC/AC 50 Hz (LOAD TYPE L cosφ=0.714 / R)	A	2,5 /6,5

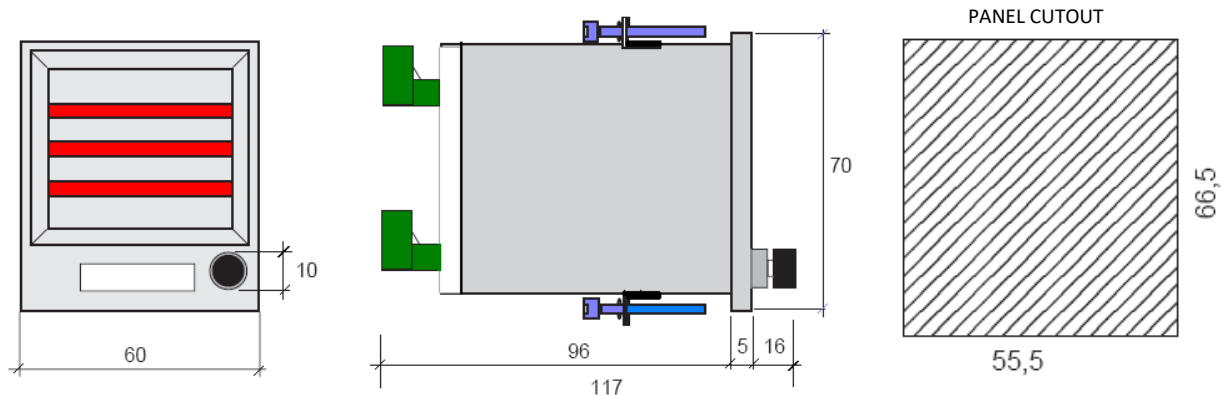
## FLAG RELAY

### ELECTRICAL CONNECTION



ENERGIZING MODEL RCNE						DE-ENERGIZING MODEL RCND						
SIGNALING		CONTACTS POSITION				SIGNALING		CONTACTS POSITIONS				
COLOUR		3-30 3-31 2-20 2-21		1-10 1-11 4-40 4-41		COLOUR		3-30 3-31 2-20 2-21		1-10 1-11 4-40 4-41		
BLACK		I	0	I	0	BLACK		0	I	I	0	
		DE-ENERGIZED COIL						ENERGIZED COIL				
RED		0	I	0	I	RED		I	0	0	I	
		ENERGIZED COIL						DE-ENERGIZED COIL				
WHITE		0	I	I	0	WHITE		I	0	I	0	
		ENERGIZED COIL						DE-ENERGIZED COIL				
BLACK						BLACK						
RED						RED						
WHITE						WHITE						

### DIMENSION



CODE	DESCRIPTION	VOLTAGE [V]	DIM L /A/S [mm]	WEIGHT [Kg]
A4RCNE024VCC	FLAG RELEAY RCN ENERGIZING	24 CC	60/70/117	0,470
A4RCNE048VCC	FLAG RELEAY RCN ENERGIZING	48 CC	60/70/117	0,470
A4RCNE110VCA	FLAG RELEAY RCN ENERGIZING	110 AC	60/70/117	0,470
A4RCNE110VCC	FLAG RELEAY RCN ENERGIZING	110 CC	60/70/117	0,470
A4RCNE125VCC	FLAG RELEAY RCN ENERGIZING	125 CC	60/70/117	0,470
A4RCNE132VCC	FLAG RELEAY RCN ENERGIZING	132 CC	60/70/117	0,470
A4RCNE220VCC	FLAG RELEAY RCN ENERGIZING	220 CC	60/70/117	0,470
A4RCNE230VCA	FLAG RELEAY RCN ENERGIZING	230 AC	60/70/117	0,470
A4RCND024VCC	FLAG RELEAY RCN DE-ENERGIZING	24 CC	60/70/117	0,470
A4RCND048VCC	FLAG RELEAY RCN DE-ENERGIZING	48 CC	60/70/117	0,470
A4RCND110VCA	FLAG RELEAY RCN DE-ENERGIZING	110 AC	60/70/117	0,470
A4RCND110VCC	FLAG RELEAY RCN DE-ENERGIZING	110 CC	60/70/117	0,470
A4RCND125VCC	FLAG RELEAY RCN DE-ENERGIZING	125 CC	60/70/117	0,470
A4RCND132VCC	FLAG RELEAY RCN DE-ENERGIZING	132 CC	60/70/117	0,470
A4RCND220VCC	FLAG RELEAY RCN DE-ENERGIZING	220 CC	60/70/117	0,470
A4RCND230VCA	FLAG RELEAY RCN DE-ENERGIZING	230 AC	60/70/117	0,470

(\*) FLAG RELAY WITH 270hm INTERNAL SERIES RESISTOR TO BOBBIN

(\*\*) FLAG RELAY WITH 2KOhm INTERNAL SERIES RESISTOR TO BOBBIN

(\*\*\*) FLAG RELAY WITH 1KOhm INTERNAL SERIES RESISTOR TO BOBBIN