

LOCK RELAY



MODEL

RBN

APPLICATION

- Control rooms
- Mimic Diagrams

FEATURES

- High current capacity
- Free position
- Tropicalization up request

DESCRIPTION

The Lock Relay is constituted by an electromagnet, which drives four changeover contacts and optical signalling at two positions with two colours. The electromagnet, the contacts, the signal mechanism and the flag are enclosed in a plastic housing with front plate and plug-connectors. The front plate bears a window that allows the visualization of the two indications and includes a reset button. The relay is available in two versions: “energizing” (RBNE) and “de-energizing” (RBND).

This relay is ideally suited for any environmental condition. A large number of flag relays can be assembled in banks.

OPERATION

Energizing model RBNE

In the normal position (relay de-energized), the colour signal is BLACK. When the coil is driven by appropriate voltage, the indication becomes RED and the four switch contacts of the electromagnet change-over. Pressing the reset-button, if the coil is de-energized, the indication returns BLACK and the contacts return to normal position, if the coil is still energized the Relay remains in alarm status.

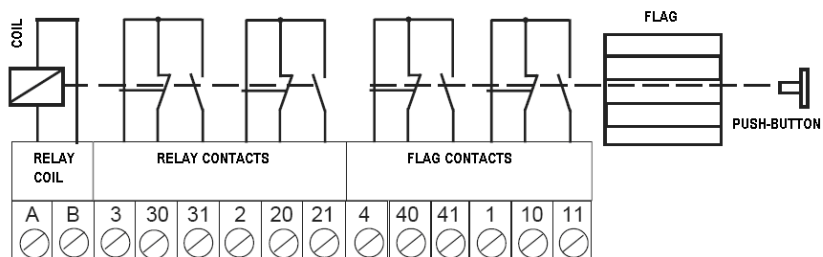
De-energizing model RBND

In the normal position (relay energized), the colour of the indication is BLACK. When there is no voltage applied to the coil of the electromagnet, the colour is RED for alarm and the four switch contacts of the electromagnet changeover. Pressing the reset-button, if the coil is energized, the indication returns BLACK and the contacts return to normal position, if the coil is still de-energized the Relay remains in alarm status.

	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.	MAXIMUM VOLTAGE	V	220 DC / 230 AC
6.	RATED SUPPLY VOLTAGE	V	110-230 AC ±10% / 24-48-110-132-220 DC ±10%
7.	DIELECTRIC STRENGTH	kV	2 (50 Hz 1min)
8.	PULSE TEST	kV	5 (1,2/50 us)
9.	POWER CONSUMPTION	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 ²
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
20.	MARKING		CE

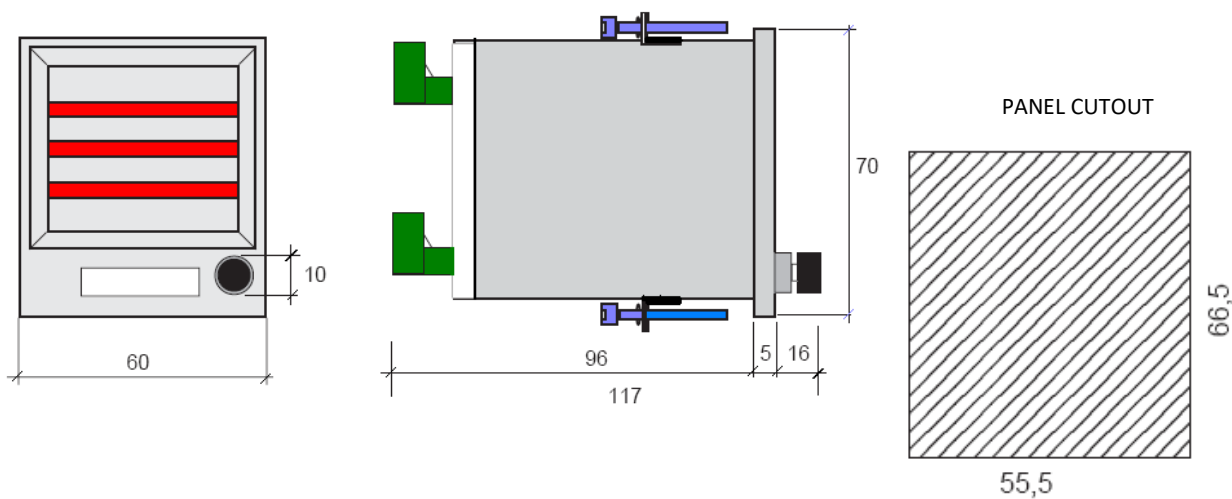
LOCK RELAY

ELECTRICAL CONNECTION



ENERGIZING MODEL RCNE				DE-ENERGIZING MODEL RCND			
SIGNALLING		CONTACTS POSITION		SIGNALLING		CONTACTS POSITION	
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		DE-ENERGIZED COIL				
RED	0 I		0 I	RED	I 0		0 I
	ENERGIZED COIL		ENERGIZED COIL				
BLACK				BLACK			
RED				RED			

DIMENSIONS



LOCK RELAY

CODE	DESCRIPTION	VOLTAGE [V]	DIM L / A / S [mm]	WEIGHT [Kg]
A4RBNE024VCC	LOCK RELAY RBN ENERGIZING	24 CC	60/70/117	0,470
A4RBNE048VCC	LOCK RELAY RBN ENERGIZING	48 CC	60/70/117	0,470
A4RBNE110VCA	LOCK RELAY RBN ENERGIZING	110 CA	60/70/117	0,470
A4RBNE110VCC	LOCK RELAY RBN ENERGIZING	110 CC	60/70/117	0,470
A4RBNE125VCC	LOCK RELAY RBN ENERGIZING	125 CA	60/70/117	0,470
A4RBNE132VCC	LOCK RELAY RBN ENERGIZING	132 CC	60/70/117	0,470
A4RBNE220VCC	LOCK RELAY RBN ENERGIZING	220 CC	60/70/117	0,470
A4RBNE230VCA	LOCK RELAY RBN ENERGIZING	230 CA	60/70/117	0,470
A4RBND024VCC	LOCK RELAY RBN DE-ENERGIZING	24 CC	60/70/117	0,470
A4RBND048VCC	LOCK RELAY RBN DE-ENERGIZING	48 CC	60/70/117	0,470
A4RBND110VCA	LOCK RELAY RBN DE-ENERGIZING	110 CA	60/70/117	0,470
A4RBND110VCC	LOCK RELAY RBN DE-ENERGIZING	110 CC	60/70/117	0,470
A4RBND125VCC	LOCK RELAY RBN DE-ENERGIZING	125 CA	60/70/117	0,470
A4RBND132VCC	LOCK RELAY RBN DE-ENERGIZING	132 CC	60/70/117	0,470
A4RBND220VCC	LOCK RELAY RBN DE-ENERGIZING	220 CC	60/70/117	0,470
A4RBND230VCA	LOCK RELAY RBN DE-ENERGIZING	230 CA	60/70/117	0,470