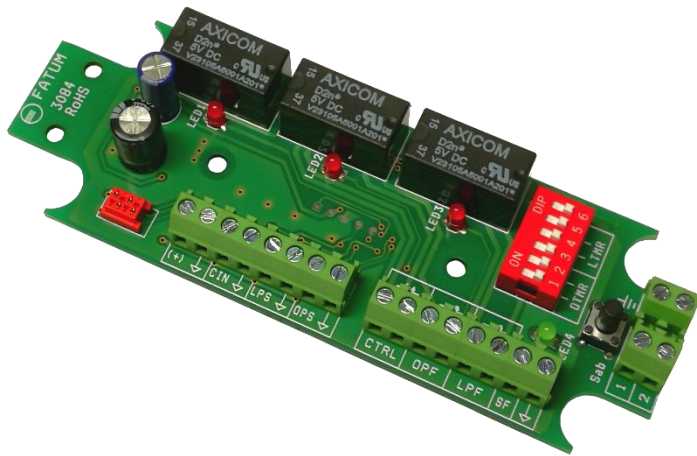




DESCRIPTION

Motor Lock Alarm is used to control the position of the latch bolt in a motor lock and safely control arming and disarming of the facility.

The motor lock alarm connects burglar alarm with motor lock, so that the motor lock locks the bolt when the alarm is turned ON and unlocks the bolt when the alarm is turned OFF. For safe operation, there are two adjustable timers that provide the lock piston time to go out and lock or time to go back and unlock. Times are adjustable in the range of 1-60 seconds. If the lock is not working properly, it is indicated with separate relays. Can be used for both 12V and 24V motor locks.

Applications are in access control systems for entrance doors, emergency exits, warehouse doors etc.

TIMERS SETTINGS

Unit has 2 separate timers for individual setting of locking and unlocking time. Time delays are set with the help of DIP switch:

- DIP1 – DIP3: time delay after unlocking, marked as OTMR
 - 8 options
 - 1, 3, 5, 7, 10, 15, 30, 60 s
- DIP4 – DIP6: time delay after locking, marked as LTMR
 - 8 options
 - 1, 3, 5, 7, 10, 15, 30, 60 s

DIP1 – DIP3: Time delay after unlocking (OTMR)

#	DIP1	DIP2	DIP3	Timer [s]
0	OFF	OFF	OFF	1
1	ON	OFF	OFF	3
2	OFF	ON	OFF	5
3	ON	ON	OFF	7
4	OFF	OFF	ON	10
5	ON	OFF	ON	15
6	OFF	ON	ON	30
7	ON	ON	ON	60

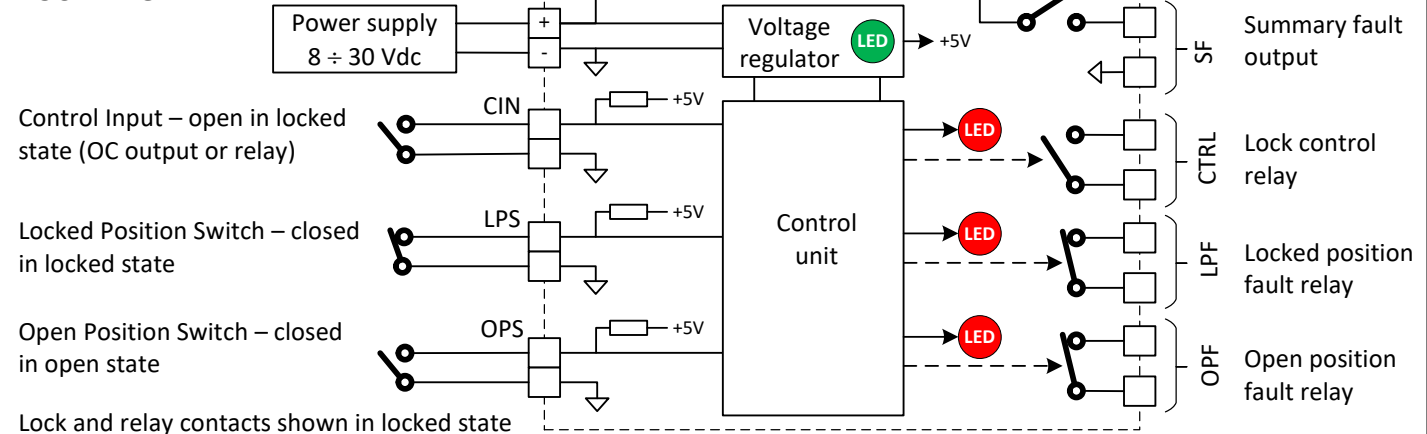
DIP4 – DIP6: Time delay after locking (LTMR)

#	DIP4	DIP5	DIP6	Timer [s]
0	OFF	OFF	OFF	1
1	ON	OFF	OFF	3
2	OFF	ON	OFF	5
3	ON	ON	OFF	7
4	OFF	OFF	ON	10
5	ON	OFF	ON	15
6	OFF	ON	ON	30
7	ON	ON	ON	60

TECHNICAL SPECIFICATION

Supply voltage DC	Vin = 8 ÷ 30 V
Supply current (max.)	45 mA @ 12 Vdc, 22 mA @ 24 Vdc
Low voltage alarm	Vin ≤ 7 V, OPF and LPF open, summary alarm
INPUTS	
Control input	NC/NO, polarized to internal +5 V by 2.2 kohm
Locked position	NC/NO, polarized to internal +5 V by 2.2 kohm
Open position	NC/NO, polarized to internal +5 V by 2.2 kohm
OUTPUTS	
Control output	NO relay, contacts rating: 30 Vdc, 2 A
Open fault	NC relay, contacts rating: 30 Vdc, 2 A
Locked fault	NC relay, contacts rating: 30 Vdc, 2 A
Summary fault	Signaled by Vin, 2 A load max.
TIME DELAY SETTING	
Time delay control	Time is set with a 3+3 pin DIP-switch for unlocking and locking delay from 1 s to 60 s
ENVIRONMENT AND DIMENSIONS	
Environmental class	EN 50130-5, Class II
Dimensions	116 x 40 x 16 mm
Weight	46 g
Operating temp.	-20 °C to +55 °C
Compliance	 

BLOCK DIAGRAM



I/O TERMINALS

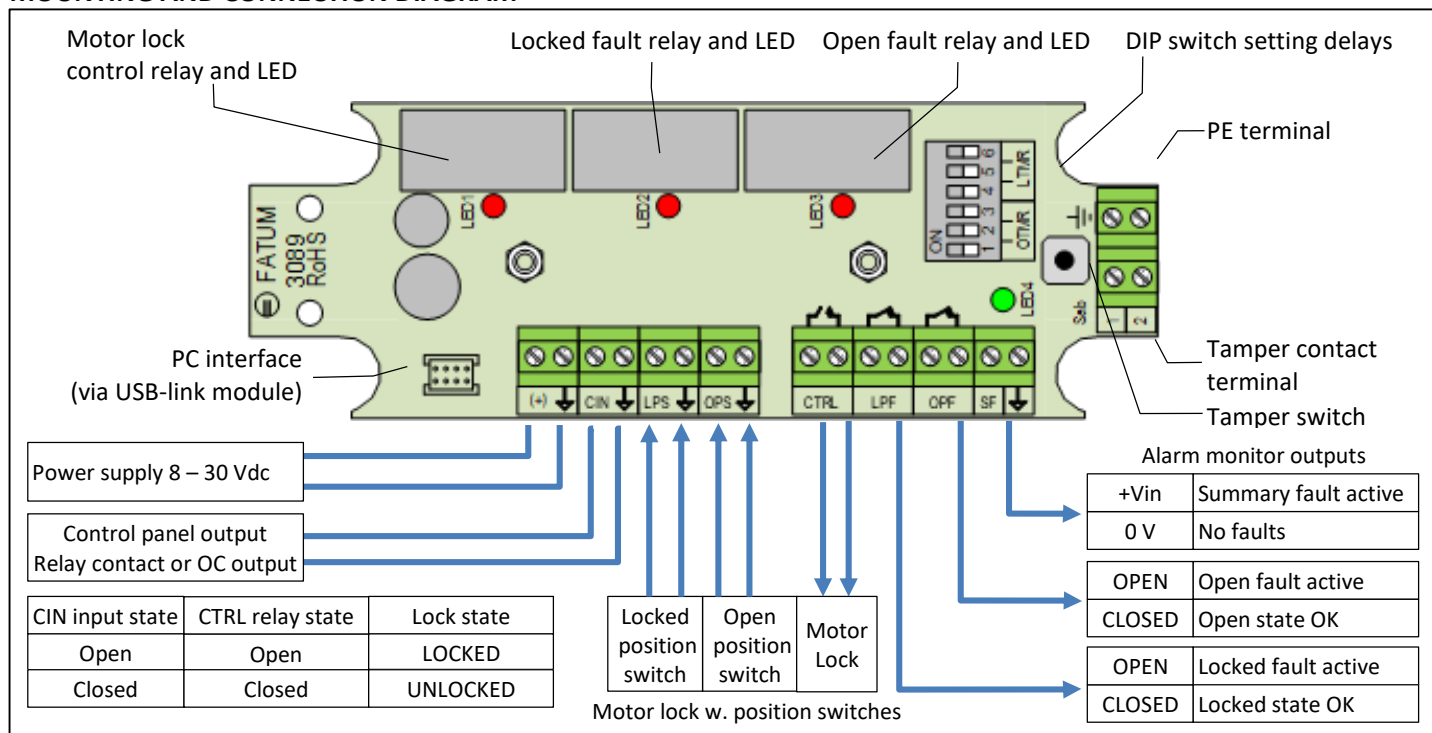
Input terminal

Marking	Function	
(+)	Supply voltage Vin=8–30 V	Supply voltage input, signalled by LED4
▽	Common ground	
CIN	Control input	Open input forces lock closed state
▽	Common ground	
LPS	Locked position switch	Switch closed when lock in locked state
▽	Common ground	
OPS	Open position switch	Switch closed when lock in open state
▽	Common ground	

Output terminal

Marking	Function		LED
CTRL	Relay contacts Open for CIN open	Control relay of motor lock, follows CIN state	LED1
LPF	Relay contacts Normally Closed	Alarm relay signalling Locked Position Fault	LED2
OPF	Relay contacts Normally Closed	Alarm relay signalling Open Position Fault	LED3
SF	Summary alarm	Any active alarm signalled by Vin	LED2
▽	Common ground		LED3

MOUNTING AND CONNECTION DIAGRAM



WAVEFORMS

