## - 16 digital inputs 127 Vdc or 48 Vdc

- 1 output relay per input (copy of input status)
- 3 output relays of grouping alarms (2 SPDT contacts)
- choice of alarm group for each inputs
- tricolour LED for alarm group visualization


## - Memorized and fugitive alarms

- LED status indication memorized for each channel
- Fugitive relays output for alarm groups (pulse )
- Acknowledge in front face or by digital input
- "Test lamps" in front face or by digital input
- Passive technology


## Increase functional safety

- Large format : $144 \times 144 \mathrm{~mm}$
- Power supply: $127 \mathrm{Vdc}+\mathrm{l}-20 \%$ or $48 \mathrm{Vdc}+\mathrm{l}-20 \%$


The AFL144 is an alarm annunciator, including all necessary functions to signal alarm locally or remotely: Holding alarm state, Acknowledgement, individual output and 3 alarms groups.
DIN panel enclosure, the device can be directly mounted in cabinet, bay or control panel.

## Principe of operation:

- The apparition of an alarm or a default (presence of $127 \mathrm{Vdc}-48 \mathrm{Vdc}$ ) causes:
- The turning ON the LED of the corresponding channel (holding state)
- The copy of the channel state (127V-48V) (not memorized, follow of input state)
- The activation of one ot three alarm group relay (if selected). 3 alarms group available (named: D, N, U). Each channel have 2 pulse relay who provide a 3 seconds pulse at every new alarm occurrence on an input, allowing indication of a flood of default
For each input, a switch is used to select the alarm group ( $\mathrm{D}, \mathrm{N}, \mathrm{U}$ ) or the information channel (i). The information channel don't activate the relays but drive only the display (green led with holding)
At the occurrence of an alarm on input, the colour of the LED show the alarm group selected:
channel D : Green ; channel U : Red; channel N : Yellow
A relay output (normally close) monitor the internal voltage and is acti-
vated on internal fault or power supply loss.
Test Lamp:
The device have a built-in test of front LEDs.
The outputs relays are not affected by this test procedure
The "Test Lamps" is possible with the front face button or by digital input ( $127 \mathrm{~V}-48 \mathrm{~V}$ ) at the rear of device.
Acknowledge:
The reset is made by pressing the "Acknowledge" front panel button or by closing the digital input at the rear.
(An input still active is not affected by the Acknowledge )
At this state, the occurrence of an other default carry the lit ON of the channel LED and the temporary activation of alarm group pulse relays. When the defaults disappear, an action on the button "Acknowledge" turn OFF the LED.


## Setting:

A switch on the rear face allows the choice of the alarm group or the inhibition of each channel.

## Front face description :

- 2 rows of 8 tricolour LED, 5 mm diameter, High luminosity.
- 1 «ACKNOLEDGE » button
- 1 « TEST LAMPS » button
- 1 LED «POWER»
- 16 label holders for custom tag of channel

Rear face description :
-16 digital inputs $127 \mathrm{Vdc}-48 \mathrm{Vdc}$
-16 digital outputs $127 \mathrm{Vdc}-48 \mathrm{Vdc}$ (copy of input status)
-3 relays outputs, $2 \times$ SPDT contact, pulse output
(2 output for each alarm group)

- 1 relays outputs «POWER OK», changeover contact
- 1 digital input, «ACQUITTEMENT », 127Vdc - 48Vdc
-1 digital input, «TEST LAMPES », 127Vdc -48 Vdc
- 16 switches for alarm group selection.

Features:

- Long life time for LED,
- plastic DIN panel case, $144 \times 144 \times 91 \mathrm{~mm}$,
- fixation brackets,
- pluggable screw terminal blocks ( $1 \mathrm{~mm}^{2}$ section),
- conformal coating,
- galvanic isolation input/power supply/relays
- Power supply : 127 Vdc or $48 \mathrm{Vdc}+/-20 \%$

Version and order code:
Request a quote
AFL144 HV: $16 \times 127 \mathrm{Vdc}$ digital inputs, 127 Vdc power supply
AFL144 MV: $16 \times 48 \mathrm{Vdc}$ digital inputs, 48 Vdc power supply
option: IP55 front face protective cover, surface mounting bracket


## DIGITAL INPUTS

Type :
polarization internal voltage
Input impedance inrush current

Voltage
127 / 48 Vdc typical +/- 10\%
~ 10Kohms
~ 10 mA

RELAYS
isolated changeover contact
switching power
mechanical life time electric life time

2500 Vac
3A / 250 Vac
$15 \times 10^{6}$ operations
$3 \times 105$ @ 230Vac 0.5A

DC switching power : (graph below)

time rising / falling
Pulse duration (fugitive output)
Recovery time
$5 \mathrm{~ms} / 5 \mathrm{~ms}$ 3sec typical +/-20\% 10 sec . maxi

## POWER SUPPLY

universal : $127 \mathrm{Vdc}+/-20 \%$ or $48 \mathrm{Vdc}+/-20 \%, 8 \mathrm{VA}$

## ENVIRONMENT

Operating temperature

Storage temperature
Humidity (non condensed)
Weight
Protection rating
Dielectric strength
inputs / power supply / relays
2500 Vac continuous

WIRING AND OUTLINE DIMENSIONS:



Material: 20/10 stainless steel sheet

