Aria Electronic Hamyar Sanat Co. LTD

Sub Rack
Alarm
Annunciator

Window Type
Alarm
Annunciator

www.aria-electronic.com

0098 21 44001441
0098 21 44002073
Sub Rack Alarm Annunciator
Model: Large Windows (LW)

Compact Size

4-Channel to 40-Channel

Deep = Max 70 mm

Display LED Type

Series Standard Sequence  ISA 18.1

Two dry Contact Outputs Urgent and non urgent outputs selectable by Dip Switches

First Alarm

Auto / Manual Reset selectable by Dip Switches

Input Logic mode: Normal Open & Normal Close

Switching Dc or Ac / Dc Convertor with Electronic Fuse on output protects them against shore circuit

Voltage Power Supply


Input Logic Voltage

Color of Window Light
Red – Yellow – Green – White – with change filter

Automatic Sound Cancelling
Whenever any new fault occurs, the Alarm hooter contacts MJA and MNA closes, it breaks when Horn off or Ack button is pressed or after at 7 min automatically Horn off.

2 Channel Alarm Hooter driving contacts
Flasher synchronization in multi-unit system
Auto Horn off synchronization in multi-unit system

Supplied using film legends legends or back light
Paper standard laser printer.

Mounting: Fixed by 2 holding clamps to panel metal holder for wall mounting is available

4 key function (Push Bottom) :
Acknowledge – Horn off – Lamp Test - Reset

1 SQ. Card for 4 inputs fault

Ambient Temperature: -30 to +70 °C

High Reliability

Low Cast
Electrical Characteristics Compact Alarm Annunciator

1 Sequence Card for 4 inputs fault
Total Power Consumption per Alarm Point:
Normal Condition : 0.0 W
Flashing Condition ; 1 W
Steady Condition :1.2 W

**Fault Input:**
2 mA at 110/220 V AC/DC +/- 20%
**Level**: Closure on (Positive or Negative) V DC or Ac
Anti – Interference Voltage 35 ms

**Technology:**
All system carried out by Micro Controller AVR

**Klaxon and Bell output** :
2 dry N.O. Contact closure for audible klaxon and Bell.
Making capacity (10A 240 V Ac) /(12A 120 V Ac) / (12A 24 V Dc)
** Note : for Higher current aux Relay recoming.

**Input Aux Supply** :
(24 V, 48 V, 110 V, 125 V) AC/Dc recomind.

**Horn off Push Button** :
For stopping the audible Alarm by disarming the command
Memories with mechanical life 1,000,000

**Acknowledge Push Button**:
For stopping the audible Alarms and to prove of flasher Alarm
with mechanical life 1,000,000

**Lamp Test Push Button**:
For testing the signaling Lamp , Possibility of Press and hold
for Lamp Test with mechanical life 1,000,000

(3)
**Reset Push Button:**

For extinguishing the Alarm signal Light and horn Channel Action on Then Acknowledges and faults canceled This push Button for Alarms of remove faults in Input with mechanical life 1,000,000
Notice: This appendix discusses Verbatim operations in the context of the ANSI/ISA S18.1 Annunciator Sequences and Specifications Standard. One concept central to this discussion is that of channel state at any given time every armed channel is in one of the following 5 states: normal, alarm, acknowledged alarm, return to normal (RTN), acknowledged (RTN).
Auto / Manual Reset Logic Diagram:

1. **NORMAL**
2. **FAULT** → **FLASHING** → **ACKNOWLEDGE** → **STEADY LIGHT** → **STEADY FAULT** → **Press Reset** → **STEADY LIGHT**
   - **FAULT CLEARANCE** → **Press Reset** → **NORMAL**

**Manually Reset**

1. **NORMAL**
2. **FAULT** → **FLASHING** → **ACKNOWLEDGE** → **STEADY LIGHT** → **STEADY FAULT** → **Press Reset** → **STEADY LIGHT**
   - **FAULT CLEARANCE** → **NORMAL**

**Auto Reset**
Sequence Logic Diagram:

A

B
Auto/Manual Reset Logic Diagram:

Manually Reset

Auto Reset
For Example

24-Channel Compact Alarm Annunciator

Front View

Window Dimensions: 45 X 22 mm
Deep = Max 70 mm

Back View
If Power Supply Voltage = Input Voltage
Don’t Connect Input Com.

Notice: in the use for circuit Common Alarm (KLAXON) please use Auxiliary Relay
Wiring Diagram (2)

If Power Supply Voltage ≠ Input Voltage

Connect to Input Com.

Notice: in the use for circuit Common Alarm (KLAXON) please use Auxiliary Relay Jumper Setting
Wiring & Paralleling Two or more Alarm Unit
*** Notice: In the use alone Alarm Unit the Jumper regular Flashing Synchronization should be Closed (always ON)
Select Critical / Non Critical selectable for RL1/RL2 Alarm
Sub Rack Alarm Annunciator

Model: Small Windows (SW)

Compact Size
4-Channel to 80-Channel
Deep = Max 120 mm
Display LED Type
Series Standard Sequence   ISA 18.1

Two dry Contact Outputs Urgent and non urgent outputs selectable by Dip Switches
First Alarm
Auto / Manual Reset selectable by Dip Switches
Input Logic mode: Normal Open & Normal Close
Switching Dc or Ac / Dc Convertor with Electronic Fuse on output protects them against shore circuit
Voltage Power Supply
Input Logic Voltage
Color of Window Light
Red – Yellow – Green – White – with change filter
Automatic Sound Cancelling
Whenever any new fault occurs, the Alarm hooter contacts MJA and MNA closes, it breaks when Horn off or Ack button is pressed or after at 7 min automatically Horn off.

2 Channel Alarm Hooter driving contacts
Flasher synchronization in multi-unit system
Auto Horn off synchronization in multi-unit system

Supplied using film legends legends or back light
Paper standard laser printer.

Mounting: Fixed by 2 holding clamps to panel metal holder for wall mounting is available

4 key function (Push Bottom) :
Acknowledge – Horn off – Lamp Test - Reset

1 SQ. Card for 4 inputs fault

Ambient Temperature: -30 to +70 °C

High Reliability

Low Cast
Electrical Characteristics Compact Alarm Annunciator

1 Sequence Card for 4 inputs fault
Total Power Consumption per Alarm Point:
Normal Condition : 0.0 W
Flashing Condition ; 1 W
Steady Condition :1.2 W

*Fault Input:*  
2 mA at 110/220 V AC/DC +/- 20%
*Level:* Closure on (Positive or Negative) V DC or Ac
Anti – Interference Voltage 35 ms

*Technology:*  
All system carried out by Micro Controller AVR
*Klaxon and Bell output:*  
2 dry N.O. Contact closure for audible klaxon and Bell.
Making capacity (10A 240 V Ac) /(12A 120 V Ac) / (12A 24 V Dc)  
** Note : for Higher current aux Relay recoming.

*Input Aux Supply:*  
(24 V , 48 V , 110 V , 125 V) AC/Dc recomind.

*Horn off Push Button:*  
For stopping the audible Alarm by disarming the command
Memories with mechanical life 1,000,000

*Acknowledge Push Button:*  
For stopping the audible Alarms and to prove of flasher Alarm
with mechanical life 1,000,000

*Lamp Test Push Button:*  
For testing the signaling Lamp, Possibility of Press and hold
for Lamp Test with mechanical life 1,000,000
**Reset Push Button:**
For extinguishing the Alarm signal Light and horn Channel Action on Then Acknowledges and faults canceled This push Button for Alarms of remove faults in Input with mechanical life 1,000,000
Notice: This appendix discusses Verbatim operations in the context of the ANSI/ISA S18.1 Annunciator Sequences and Specifications Standard one concept central to this discussion is that of channel state at any given time every armed channel is in one of the following 5 states: normal, alarm, acknowledged alarm, return to normal (RTN), acknowledged (RTN).
Auto / Manual Reset Logic Diagram:

Manually Reset:
1. **NORMAL**
2. FAULT → FLASHING → ACKNOWLEDGE → STEADY LIGHT → STEADY FAULT → Press Reset → STEADY LIGHT
   - FAULT CLEARANCE → Press Reset → NORMAL

Auto Reset:
1. **NORMAL**
2. FAULT → FLASHING → ACKNOWLEDGE → STEADY LIGHT → STEADY FAULT → Press Reset → STEADY LIGHT
   - FAULT CLEARANCE → NORMAL
Sequence Logic Diagram:

A

FAULT
LAMP
KLAXON
HORN OFF
ACK.
RESET

B

FAULT
LAMP
KLAXON
HORN OFF
ACK.
RESET
Auto/Manual Reset Logic Diagram:

Manually Reset

Auto Reset
For Example

24-Channel Compact Alarm Annunciator

Front View
Window Dimensions: 22 X 22 mm²
Deep = Max 120 mm

Back View
If Power Supply Voltage = Input Voltage
Don’t Connect Input Com.
Notice: in the use for circuit Common Alarm (KLAXON) please use Auxiliary Relay
Wiring Diagram (2)

If Power Supply Voltage ≠ Input Voltage

Connect to Input Com.
Notice: in the use for circuit Common Alarm (KLAXON) please use Auxiliary Relay Jumper Setting
Position (1)

Wiring & Paralleling Two or more Alarm Unit
*** Notice: In the use alone Alarm Unit the Jumper regular Flashing Synchronization should be Closed (always ON)
Select Critical / Non Critical selectable for RL1/RL2 Alarm
Aria Electronic Hamyar Sanat Co. LTD

ATTESTATION OF COMPLIANCE

The technical file of the following product has been checked and found in compliance with the Parliament and Council Directive 2006/95/EC of 12 December 2006 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits.

Applicant: Aria Electronic Hamyar Sanat Co. LTD
No 6, Shahrestan-e Shahrak-e Shahrin-Shahr, North Highway, Tehran, Iran

Manufacturer: Aria Electronic Hamyar Sanat Co. LTD
No 6, Shahrestan-e Shahrak-e Shahrin-Shahr, North Highway, Tehran, Iran

Product: Alarm Annunciator

Variants: Compact Alarm Annunciator, Remote Alarm Annunciator, Sub-Panel Alarm Annunciator, Alarm Window

Base of attestation: File of technical documentation No: 91 TE.05.02

The referred technical file is reviewed and attested with presumption of compliance with the essential requirements listed EU Directive 95/EC above. This attestation does not arrogate the compulsory obligation of the manufacturer to issue the declaration of conformity.

Istanbul, Date 2012-06-13

Mehmet Işıklar
General Manager