

M3-Series Annunciators – Basic Models

M3-40R

Features

- Super bright SMD LEDs.
- Master and slave units are available in 4, 6 & 8 windows.
- Incorporates a built-in buzzer in addition to fault alarm relay output.
- User-selectable sequence of operations-Manual/Auto reset/ Manual reset with ring back / FIFO.
- RS485 MODBUS communication output with field selectable device Ids.
- Repeat Relay card Option available.



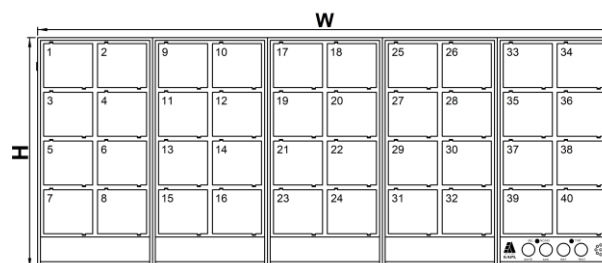
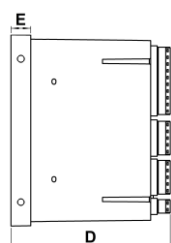
Ordering Information

Models	No of Windows	Product Size	Source and Stand By Voltage	Output
M3-40R	40	5D	85-270V AC/DC & 12V DC or 85-270V AC/DC & 85-270V AC/DC or 24-48V AC/DC & 12V DC or 24-48V AC/DC & 85-270V AC/DC	Trip Relay - (C-NC-NO), Alarm Relay - (C-NC-NO), AC Fail - (C, NO), DC Fail - (C, NO).

Note: All above models are also available without communication and AC Fail /DC Fail indications.

Side & Front View

M3-40R



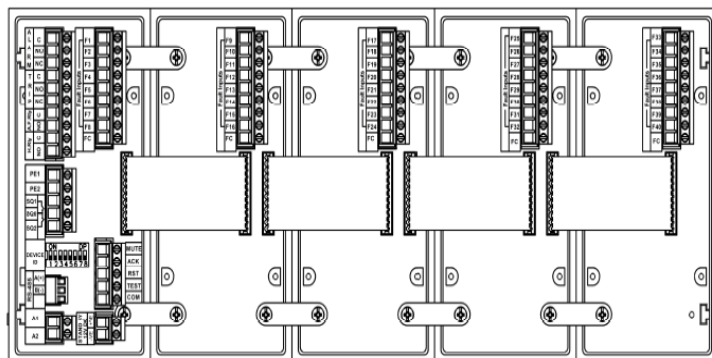
Over-all and cut-out Dimensions

Models	Dimension Details in mm				Cut-out Dimension in mm	
	W	H	D	E	W1	H1
M3-40R	360	144	121	15	354	139

■ Specifications

Parameters	Models	M3-40R
Function		Programmable Fault Annunciator with RS-485 Communication
Supply Voltage		85-270V AC/DC or 24-48V AC/DC
Power Consumption		AC: 40VA Approx. DC:25W Approx.
Rated Frequency		50 / 60Hz \pm 5% AC ONLY
No of Windows		40
Fault input contacts		Potential Free (NO/NC field selectable)
Communication		RS485 Modbus RTU protocol.
Stand By Supply		12VDC \pm 10%
Window colour		Red
Device Id Selection		Field Programmable
Window Size		34.0mm X 31.0mm(LXW)
Flash rate		Fast:100/Minute \pm 10 Slow :60/Minute \pm 10
Control Output		4 TRIP Relay(C,NC,NO),Alarm Relay (C,NC,NO) Aux. fail Rly (C & NO),Hooter Rly (C & NO)
Push Button Control		Integral Push button for Test, Mute, Acknowledge & Reset Function, Provision of output connections for remote access of push Buttons
Illumination		Low power Super Bright LED'S
Fault input Signal		Potential Free (NO/NC field selectable)
Contact Rating		1 C/ O Rated for 5A @ 250 VAC / 30VDC(NO) 3A @ 250VAC / 30VDC (NC)
Test Facility		Yes
Audible Output		Internal Buzzer
Fault Sensitivity		100msec \pm 10mSec
Sequence of Operation		a) Manual reset b) Auto reset c) Manual Reset + Repeat Alarm d) FIFO Sequence
Insulation resistance		>100M ohms @500V DC
Service life (under no load)		10 ⁶ operations minimum
Electrical life(under full load)		10 ⁵ operations minimum
Recovery Time		2Sec minimum
Humidity		85% RH @ 40°C
Ambient Temperature		Operating : -10 ⁰ C to +55 ⁰ C Storage : -25 ⁰ C to +80 ⁰ C
Dielectric Strength		a)2.5KV AC, 50Hz for 1 minute. (Between current carrying & non-current carrying parts) b) 1.5KV AC, 50Hz for 1 minute. (Between contacts & control circuit) c) 750V AC, 50Hz for 1 minute. (Between non-continuous relay contacts)
Electrical Connection		Right angle female pluggable connector
Over-all Dimension(WXHxD)		360x 144 x 121 mm
Cut-out Dimension(WXH)		354 x 139 mm

Connection Details



Terminal Details

Aux Supply: 85-270V AC/DC or 24-48V AC/DC
Stand by Supply -Ve & + Ve: 12V DC (1Amp) \pm 10%
Hooter RLY C & NO: Rly contacts for Hooter during power fail
Aux. Fail Rly C & NO: Rly contacts for indicating power failure
Alarm & Trip relay: C,NO&NC for alarm and trip output indication.
PE1 & PE2: Short - Program Enable (PGM) & Open- Program Disable (RUN)
FC: Common fault (FC) I/P terminals for F1-F16, F1-F32
 Individual fault I/P terminals for respective window (Potential free). Connect WRT Fault COM (FC):
F1-----F40 for 40 windows
MUTE ACK, RST, and TEST: External push buttons for, remote operations
 Connect WRT COM.
SQ1, SQ2: Selection of required sequence of operation connect w.r.t SQ0
A (+), B (-): RS485 Communication terminals