

M3-Series Annunciators – Basic Models

M3-8R/12R/16R

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

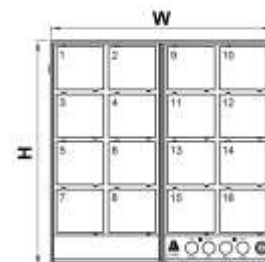
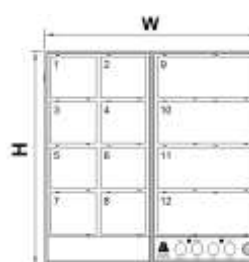
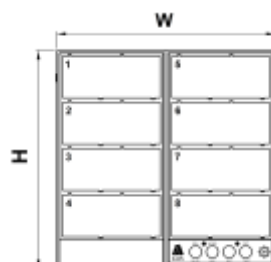
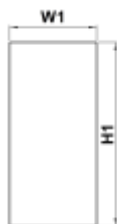
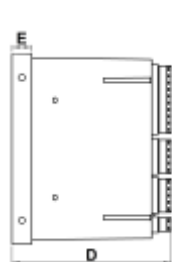
Models	No of Windows	Product Size	Source and Stand By Voltage	Output
M3-8R	8	2D	85-270V AC/DC & 12V DC or	Trip Relay - (C-NC-NO), Alarm Relay - (C-NC-NO), AC Fail - (C, NO), DC Fail - (C, NO).
M3-12R	12		85-270V AC/DC & 85-270V AC/DC or	
M3-16R	16		24-48V AC/DC & 12V DC or 24-48V AC/DC & 85-270V AC/DC	

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

Side & Front View M3-8R

M3-12R

M3-16R



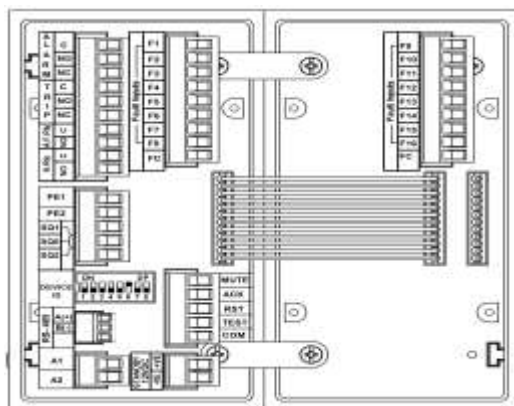
Over-all and cut-out Dimensions

Models	Dimension Details in mm				Cut-out Dimension in mm	
	W	H	D	E	W1	H1
M3-8R/12R/16R	144	144	121	15	139	139

■ Specifications

Parameters	Models	M3-8R	M3-12R	M3-16R
Function	Programmable Fault Annunciator with RS-485 Communication			
Supply Voltage	85-270V AC/DC or 24-48V AC/DC			
Power Consumption	AC: 20VA Approx. DC:12W Approx.			
Rated Frequency	50 / 60Hz \pm 5% AC ONLY			
No of Windows	8	12	16	
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	68.0mm X31.0mm(LXW)	68.0mm X 31.0mm(LXW) 34.0mm X 31.0mm(LXW)	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)	144 x 144 x 121 mm			
Cut-out Dimension(WXH)	138 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-F8,F1-F12, F1- F16
 Individual fault I/P terminals for respective window (Potential free).Connect WRT
 Fault COM (FC):
F1-----F8 for 8 windows
F1-----F12for 12 windows
F1-----F16 for 16 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