

M3-Series Annunciators – Basic Models M3-12R/20R/24R

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.





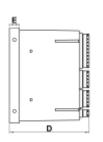
Models	No of Windows	Product Size	Source and Stand By Voltage	Output
M3-12R	10		85-270V AC/DC & 12V DC or	
IVI3-12R	12		85-270V AC/DC & 85-270V AC/DC or	Trip Relay - (C-NC-NO),
M0.00D	20			Alarm Relay - (C-NC-NO),
M3-20R	20	3D		AC Fail - (C, NO), DC Fail - (C, NO).
M3-24R	24		24-48V AC/DC & 85-270V AC/DC	,

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

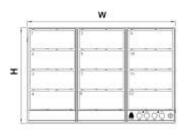
Side & Front View M3-12R

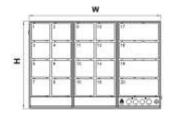
M3-20R

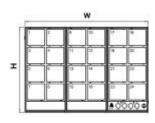
M3-24R











Over-all and cut-out Dimensions

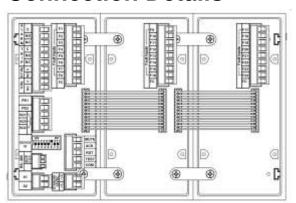
	Dimension Details in mm				Cut-out Dimension in mm	
Models	W	Н	D	E	W1	H1
M3-12R/20R/24R	216	144	121	15	212	139



■ Specifications

Parameters Models	M3-12R	M3-20R	M3-24R		
Function	Programmable Fault Annunciator with RS-485 Communication				
Supply Voltage	85-270V AC/DC or 24-48V AC/DC				
Power Consumption	AC: 35VA Approx. DC:20W Approx.				
Rated Frequency	50 / 60Hz ± 5% AC ONLY				
No of Windows	12	20	24		
Fault input contacts	Potential Free (NO/NC field selectable)				
Communication	RS485 Modbus RTU protocol.				
Stand By Supply	12VDC ± 10%				
Window colour	Red				
Device Id Selection	Field Programmable				
Window Size	68.0mm X31.0mm(L)	(W) 68.0mm X 31.0mm(L 34.0mm X 31.0mm(L	XW) 34.0mm X 31.0mm(LXW)		
Flash rate	Fast:100/Minute ±10	Slow :60/Minute ±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 ±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° C to +55° C Storage: -25° C to +80° 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)	216 x 144 x 121 mm				
Cut-out Dimension(WXH)	212 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-----F12 for 8 windows

F1-----F20 for 12 windows

F1-----F24 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