

SPECIFICATIONS

INPUT

FIELD CONTACTS

- Normally Open (N.O.) or Normally Closed (N.C.) input selection through software or hardware
- Wetted (voltage supplied) or dry (voltage free) contacts

FIELD CONTACT VOLTAGE

- 20-150 VDC, 20-150 VAC (.0018 mA per input)

INPUT ISOLATION

- Each input is optically isolated

INPUT RESPONSE

- 50 milliseconds (standard)
- 1 millisecond fast response (optional)
- 50 milliseconds to 250 seconds software adjustable

DISPLAY

LED

- White LED, minimum 2 per window

WINDOW SIZES (H X W)

- Quad: 1.5 x 1.5 inch (38 x 38 mm)
- Third: 1.0 x 3.0 inch (25 x 76 mm)
- Half: 1.5 x 3.0 inch (38 x 76 mm)
- Full: 3.0 x 3.0 inch (76 x 76 mm)

WINDOW COLORS

- White, red, yellow, amber, green, blue

LEGENDS

- Laser printed on transparency film or engraved windows

ALARM SEQUENCE

SEQUENCE SELECTIONS

- A, A4, M, R, R12, FIA, F3A, F2M1, FFAM2, F3C and R12C
- Software configurable - Dual color sequences - Customized flash rates - Up to 4 first out groups

CONTROLS

- Integral test, acknowledge, silence and reset with LED status lights
- External push button inputs
- Configurable switch inputs (inhibit LEDs, horns, relays)

OUTPUTS

AUXILIARY RELAY OPTION

- Individual or dual relay per point
- Follows field contact or alarm sequence
- Software configurable
- Energized/de-energized operation
- Form A or form B (N.O. or N.C.)
- Form C (SPDT)

COMMON RELAYS

- 2 relays included for: critical and non-critical horn; ring back audible
- 2 relays available for: critical and non-critical re-flash, common alarm; watchdog, power fail, ground fault
- Software configurable
- Energized/de-energized operation
- Form A or form B (N.O. or N.C.)

RELAY RATINGS

- 24 VDC @ 3.0 amps
- 110 VDC @ 0.1 amps
- 120 VAC @ 3.0 amps

AUDIBLE

- Internal 80 db @ 30 cm audible device
- external horns available

COMMUNICATION

- RS-232/485 & Ethernet, single or dual communications & web browser display

PROTOCOLS

- Modbus RTU and Ethernet
- Main or secondary
- Transmit or receive alarms
- Pushbutton controls

DNP 3.0

- Secondary mode
- Transmit alarms
- Pushbutton controls

SERIAL ASCII

- For local terminal/printer

TIME STAMPED ALARMS

- 1 or 4 msec time stamp resolution
- IRIG-B, NTP time sync input or internal clock
- Point #, alarm status, time and date
- Modbus, DNP, ASCII outputs
- 40,000 event storage, non-volatile

CONNECTIONS

INPUT/OUTPUT TERMINALS

- Fixed barrier terminal block, 12 GA (2.5 mm) maximum, ring, spade or bare wire termination

COMMUNICATION PORTS

- Serial: 9 pin female D connector
- Ethernet: RJ45 connector
- WEB Server: via Ethernet
- Email Notification: via Ethernet

TIME SYNCHRONIZATION

- IRIG-B: BNC connector
- NTP: via Ethernet

MECHANICAL

MOUNTING

- Semi-flush panel mounting
- 19-inch rack mounting
- Wall (surface) mounting
- NEMA enclosures

WEIGHT

- 1.5 lb per cell (0.68 kg per cell)

POWER REQUIREMENTS

INTERNAL OR EXTERNAL POWER SUPPLIES

- 230 VAC (176-264 VAC 50 Hz)
- 120 VAC (88-132 VAC 60 Hz)
- 125 VDC (100-250 VDC)
- 48 VDC (38-58 VDC)
- 24 VDC (19-29 VDC)

Max. 2.2 watts/input @ power input

ENVIRONMENT

OPERATING TEMPERATURE RANGE

- -4 to 140°F (-20 to 60°C)

HUMIDITY

- 20-95% RH

SURGE WITHSTAND

- ANSI C37.90.1 (oscillatory)

FAST TRANSIENT

- IEC-61000-4-4

SURGE IMMUNITY

- IEC-61000-4-5

EMI/RFI/ESD

- IEC-61000-4-3, 4-6, 4-8, 4-2
- EN 61326 CISPR 16

ISOLATION

- 1950 VDC or 1400 VAC input to output, logic, case

CERTIFICATIONS

- UL, ULC, CE, FM Class 1, Div 2, FMC

SEMI-FLUSH MOUNTING DETAILS

| Cells H or W | Overall H or W | Panel Cutout H or W |
|--------------|----------------|---------------------|
| 1 | 5.0 (127) | 4.06 (103) |
| 2 | 8.47 (215) | 7.53 (191) |
| 3 | 11.94 (303) | 11.00 (279) |
| 4 | 15.40 (391) | 14.47 (368) |
| 5 | 18.88 (479) | 17.94 (456) |
| 6 | 22.34 (568) | 21.41 (544) |
| 7 | 25.81 (656) | 24.88 (632) |
| 8 | 29.28 (744) | 28.34 (720) |
| 9 | 32.75 (832) | 31.81 (808) |
| 10 | 36.22 (920) | 35.29 (896) |
| 11 | 39.69 (1008) | 38.75 (984) |
| 12 | 43.16 (1096) | 42.22 (1072) |
| 13 | 46.63 (1184) | 45.69 (1160) |

Depth behind panel: 6.75", 10" with rear cover

WORLD HEADQUARTERS

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