Zone Indication Unit, Open-Collector Output Type (ZIU-0) - Part Number PCA-2711XA ZIU-0
Optional Buzzer Unit (OPT-BS) - Part Number PCA-2708XA OPT-BS

Features:
- UL listed to standard 864, 9th edition
- 32 open-collector outputs for zone status indications
- Consecutive or random zone number assignment available
- NFPA style 4 wiring for connection to FACP
- Optional audible alarm unit available
- Power supply status LED
- Signal transmission status LED
- Easy installation

Description:
The Zone Indication Unit Open-collector output type (ZIU-0) is a kind of remote annunciator that equips with 32 open-collector outputs. The ZIU-0 is designed to be used for custom-made mimic panels and any devices that require zone alarm outputs.

The ZIU-0 activates its open-collector outputs when fire alarms are detected in the corresponded zones in order to inform the remote system operator of the alarm statuses. When the optional buzzer unit OPT-BS has been connected to the ZIU-0, the buzzer of OPT-BS is activated when the fire alarms are initiated. The buzzer can be silenced by operating the silence switch of the OPT-BS.

Assignment of zones for 32 open-collector outputs can be done by setting rotary switches in ZIU-0. Either consecutive zone number assignment or random zone number assignment is available.

Each remote annunciator shall have a remote annunciator number for its identification in the system. The remote annunciator number is set by rotary switches in ZIU-0.

The Main Control Unit (MCU) supports a maximum of 30 remote annunciator devices. The remote annunciators communicate with the FACPs over the RS-485 bus. The TXM LED (green) on ZIU-0 flashes while the signal transmission between the MCU and the ZIU-0 is established. Applicable baud rates for the remote annunciator bus are 2400, 4800, and 9600bps. The RA bus is capable of supporting NFPA Style 4 circuit operation. The maximum length of the RA bus is 4000ft (1.2km).

The ZIU-0 requires 24VDC input power to operate. The 24 VDC input power can be derived from the FACPs or a UL listed remote 24 VDC power supply unit. The internal power supply converts the 24 VDC input power to 5 volts for use of the internal circuitry. The POWER LED (green) on ZIU-0 stays ON while the 24VDC power is supplied to the unit.

Ordering information:
- Part no. PCA-2711XA ZIU-0: Zone indication unit, open-collector output type
- Part no. PCA-2708XA OPT-BS: Optional buzzer unit (OPT-BS)

Specifications:

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Maximum 24VDC current</td>
<td>47 mA (48.6 mA including OPT-BS)</td>
</tr>
<tr>
<td>2</td>
<td>Ambient operating temperature range</td>
<td>32 to 120°F (0 to 49 °C)</td>
</tr>
<tr>
<td>3</td>
<td>Open collector output ratings</td>
<td>35VDC, 100 mA</td>
</tr>
<tr>
<td>4</td>
<td>Maximum RA bus length</td>
<td>1.2 km (4000 ft)</td>
</tr>
<tr>
<td>5</td>
<td>Maximum RA bus wiring resistance</td>
<td>40 Ω</td>
</tr>
<tr>
<td>6</td>
<td>Maximum RA bus wiring capacitance</td>
<td>0.4 μF</td>
</tr>
<tr>
<td>7</td>
<td>Applicable baud rates of RA bus</td>
<td>2400, 4800, and 9600bps</td>
</tr>
<tr>
<td>8</td>
<td>Annunciator bus wiring style</td>
<td>NFPA Style 4</td>
</tr>
<tr>
<td>9</td>
<td>Maximum remote annunciator per MCU</td>
<td>30 units</td>
</tr>
<tr>
<td>10</td>
<td>Remote Annunciator connection</td>
<td>RS-485</td>
</tr>
</tbody>
</table>
| 11  | Dimensions                                | 110mm (4.33") (H) x 165mm (7.28") (W) x 22mm (0.87") (D) (ZIU-0 printed circuit board assembly only)
|     |                                           | 37mm (1.46") (H) x 58mm (2.28") (W) x 22mm (0.87") (D) (OPT-BS printed circuit board assembly only) |
Installation and wiring information:

Dimensions of ZIU-O
Dimensions of OPT-BS

Wiring of ZIU-O and OPT-BS
Polarity of open-collector outputs
Wiring of remote annunciator bus

Note:

- These instructions do not purport to cover all the details or variations in the equipment described, nor provide for every possible contingency to be met in connection with installation, operation and maintenance.
- Specifications are subject to change without notice. Contact Nohmi before relying on above specifications.
- Actual performance is based on proper application of the product by a qualified professional.
- Should further information be desired or should particular problems arise, which are not covered sufficiently for the purchaser's purposes, the matter should be referred to Nohmi or a distributor in your region.

Contact

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